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Acceptance of registration by the University of Nebraska and admission to any educational program of the University does not constitute a contract or warranty that the University will continue indefinitely to offer the program in which a student is enrolled. The University expressly reserves the right to change, phase out, or discontinue any program.

The listing of courses contained in any University bulletin, catalog, or schedule is by way of announcement only and shall not be regarded as an offer of contract. The University expressly reserves the right to: 1) add or delete courses from its offerings; 2) change times or locations of courses or programs; 3) change academic calendars without notice; 4) cancel any course for insufficient registrations; or 5) revise or change rules, charges, fees, schedules, courses, requirements for degrees and any other policy or regulation affecting students, including, but not limited to, evaluation standards, whenever the same is considered to be in the best interests of the University.

Students who enter a college within the University in the academic year of this Bulletin are expected to complete the graduation requirements set forth by that College in this Bulletin. Students should meet with their College adviser regularly to be certain that they are aware of their progress toward graduation and compliance with changes in performance standards as regulated by the unit accrediting agencies/boards.

The University of Nebraska-Lincoln does not discriminate based on gender, age, disability, race, color, religion, marital status, veteran's status, national or ethnic origin, or sexual orientation.
General Information

The Role of the University of Nebraska-Lincoln

The University of Nebraska was chartered by the Legislature in 1869 as the state's public university and land-grant institution. Founded in Lincoln, the University of Nebraska was expanded in 1968 into a state educational system under the guidance of a Board of Regents and a central administration.

The University's flagship campus, the University of Nebraska-Lincoln (UNL), includes the agricultural components organized within the Institute of Agriculture and Natural Resources. Other campuses of the system include the University of Nebraska at Omaha (UNO), the University of Nebraska Medical Center in Omaha (UNMC), and the University of Nebraska at Kearney (UNK) which joined in 1991.

Instruction is organized within individual colleges and schools on each of the four campuses. In addition to bachelor's degrees, the University offers master's, professional, specialist, and doctoral degrees, which are granted by a system-wide Graduate College. The University Libraries, Extended Education and Outreach, International Affairs, the Lied Center for Performing Arts, the Bureau of Business Research, Nebraskaland Research, Nebraskan Educational Telecommunications, the Sheldon Memorial Art Gallery and Sculpture Garden, the University of Nebraska State Museum, the University of Nebraska Press, the University of Nebraska Statewide Arboretum, and Intercollegiate Athletics.

To capitalize on the breadth of programs and the multidisciplinary resources available at UNL, a number of centers exist to marshal faculty from a variety of disciplines to focus teaching and research on specific societal issues and to provide technical assistance for business and industry in order to enhance their ability to compete in world markets. Additionally, interdisciplinary programs promote integration of new perspectives and insights into the instructional research and service activities.

The University promotes respect for and understanding of cultural diversity in all aspects of society. It strives for a culturally diverse student body, faculty, and staff reflecting the multicultural nature of Nebraska and the nation. UNL brings international and multicultural dimensions to its programs through the involvement of its faculty in international activities, a student body that includes students from throughout the world, exchange agreements with other universities abroad involving both students and faculty, and the incorporation of international components in a variety of courses and curricula.

Teaching, research, and service take on a distinctive character at the University of Nebraska-Lincoln because of its status as a comprehensive land-grant university. These traits provide opportunities for the integration of multiple disciplines permitting students more complete and sophisticated programs of study. Its land-grant tradition ensures a commitment to the special character of the State and its people.

The faculty is responsible for the curricular content of the various programs, and pursues new knowledge and truths within a structure that assures academic freedom in its intellectual endeavors. The curricula are designed to foster critical thinking, the re-examination of accepted truths, respect for differing perspectives including an appreciation of the multi-ethnic character of the nation, and a curiosity that leads to lifelong learning. Additionally, an environment exists whereby students can develop aesthetic values and human relationships including tolerance for differing viewpoints.
Teaching

The people of Nebraska created UNL to provide its citizens with the highest quality of postsecondary education. Therefore a fundamental mission of the University of Nebraska-Lincoln is teaching. The distinctiveness of the teaching mission at the University of Nebraska-Lincoln lies in its range of undergraduate majors, the character and quality of the faculty, and the extracurricular environment. The University provides students with a wide choice of courses and career options which often expands the scope of their dreams and ambitions. The size and diversity of the University permits students to mature and to develop their own sense of self-confidence and individual responsibility. The course work is enriched by a faculty that is engaged in active research and creative activity and whose frame of reference is the national and international community of scholars.

Having created the first graduate college west of the Mississippi River, the University of Nebraska-Lincoln has historically recognized graduate education to be a central and unique component of its mission. Thus, UNL has primary responsibility in the State for graduate education, especially at the doctoral and professional levels. UNL is unique in possessing the scope of programs necessary for multidisciplinary instruction at the graduate level, a faculty involved in research necessary to support graduate education, and the libraries, laboratories, computer facilities, museums, galleries, and other ancillary resources required for graduate instruction.

Research

Basic and applied research and creative activity represent a major component of UNL’s mission, a component that is recognized in Nebraska legislative statutes, and in its status as both a land grant and an AAU research university. The quest for new knowledge is an essential part of a research university; it helps define and attract the type of faculty necessary to provide a university education; it distinguishes the quality of the undergraduate students’ classroom experience; and it is the necessary component of graduate instruction.

As part of its research mission, UNL is dedicated to the pursuit of an active research agenda producing both direct and indirect benefits to the State. The special importance of agriculture, environment, and natural resources is addressed in its research priorities. In addition, UNL conducts a high level of research and creative activities that address specific ways the issues and problems that confront Nebraska. Through their research and creative activities, faculty at UNL interact with colleagues around the world and are part of the network of knowledge and information that so influences our society. As a consequence, the University serves as the gateway through which Nebraska participates in and contributes to the network of knowledge and information that so influences our society.

Core Values of the University of Nebraska-Lincoln

Learning that prepares students for lifelong success and leadership;
Excellence, pursued without compromise;
Achievement in a climate that maximizes and celebrates the success of all;
Diversity of ideas and people;
Engagement with academic, business, and civic communities throughout Nebraska and the world;
Research and creative activity that informs teaching, fosters discovery and contributes to economic prosperity and our quality of life;
Stewardship of the human, financial, and physical resources committed to our care.

Accreditation

The University of Nebraska-Lincoln has been accredited by the North Central Association of Colleges and Secondary Schools since the association first began accrediting colleges and universities in 1913. The University has been a member of the Association of American Universities since 1913. In addition, various colleges, schools, and departments are accredited by their respective professional accrediting agencies.

Enrollment

The total 2006-2007 first (fall) semester enrollment at the University of Nebraska-Lincoln was 22,106 students—of whom 17,371 were undergraduates.

Calendar

Tentative Academic Calendar

(This calendar replaces all previously published calendars.)

The University of Nebraska-Lincoln operates on a semester system. The first (fall) semester begins in August and ends in December; the second (spring) semester begins in January and ends in May. The University also conducts four summer sessions from May through August.

Summer Sessions 2007

<table>
<thead>
<tr>
<th>Dates</th>
<th>Sessions/Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 21-June 8</td>
<td>Three-week Pre-session</td>
</tr>
<tr>
<td>May 21-July 13</td>
<td>Eight-week Session</td>
</tr>
<tr>
<td>June 11-July 13</td>
<td>First Five-week Session</td>
</tr>
<tr>
<td>July 16-August 16</td>
<td>Second Five-week Session</td>
</tr>
<tr>
<td>August 18</td>
<td>Commencement</td>
</tr>
</tbody>
</table>

First Semester, Fall 2007

<table>
<thead>
<tr>
<th>Dates</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 27</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>September 3</td>
<td>Labor Day</td>
</tr>
<tr>
<td>October 22-23</td>
<td>Fall Break</td>
</tr>
<tr>
<td>November 21-25</td>
<td>Thanksgiving/Vacation</td>
</tr>
<tr>
<td>December 15</td>
<td>Classes End</td>
</tr>
<tr>
<td>December 17-21</td>
<td>Final Exams</td>
</tr>
<tr>
<td>December 22</td>
<td>Commencement</td>
</tr>
</tbody>
</table>

Second Semester, Spring 2008

<table>
<thead>
<tr>
<th>Dates</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 14</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>January 21</td>
<td>Martin Luther King Holiday</td>
</tr>
<tr>
<td>March 18-23</td>
<td>Spring Holiday</td>
</tr>
<tr>
<td>May 3</td>
<td>Classes End</td>
</tr>
<tr>
<td>May 5-9</td>
<td>Final Exams</td>
</tr>
<tr>
<td>May 10</td>
<td>Commencement</td>
</tr>
</tbody>
</table>

Summer Sessions 2008

<table>
<thead>
<tr>
<th>Dates</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 19-June 6</td>
<td>Three-week Pre-session</td>
</tr>
<tr>
<td>May 19-July 11</td>
<td>Eight-week Session</td>
</tr>
<tr>
<td>June 9-July 11</td>
<td>First Five-week Session</td>
</tr>
<tr>
<td>July 14-August 14</td>
<td>Second Five-week Session</td>
</tr>
<tr>
<td>August 16</td>
<td>Commencement</td>
</tr>
</tbody>
</table>

Non-discrimination Policy

The University of Nebraska-Lincoln reaffirms its desire to create an environment for all students and employees that is fair and responsible— an environment where distinctions are made on the basis of ability and performance. To that end, it is the policy of UNL to administer all of its educational and employment programs and related supporting services in a manner which does not discriminate because of an individual’s gender, age, disability, race, color, religion, marital status, veteran’s status, national or ethnic origin, sexual orientation, or political affiliation.
It is the policy of the University of Nebraska that students on each campus shall be admitted and educated with the equal advantages of admission, academic opportunities, curriculum, and employment. In accordance with the policies and rules, the University shall not discriminate in the provision of educational and related services; and to establish organizational structures of procedures which assure equal treatment and equitable treatment in regard to the terms and conditions of their employment without regard to individual characteristics other than qualifications for employment, quality or performance of duties and conduct in regard to their employment in accordance with University policies and rules and applicable state and federal laws.

A known form of illegal discrimination and/or harassment will be condemned or tolerated. Sexual harassment is a form of illegal discrimination. It is defined as 1) any unwanted communication of a sexual nature, whether verbal, physical, written, or pictorial, which has the purpose or effect of intimidating the person receiving the communication; or 2) any solicitation of sexual contact of any nature when submission to or rejection of such contact is used as the basis for either implicitly or explicitly imposing favorable or adverse terms and conditions of academic standing or employment.

Appropriate corrective action will be taken in those instances where the foregoing policies have been violated. Any student or employee who is found to have violated any of the aforementioned policies will be subject to disciplinary action.

Further, the University of Nebraska-Lincoln (UNL) commits itself to a program of affirmative action to encourage the enrollment of minority and female students to identify and eliminate the effects of any past discrimination in the provisions of educational and related services and to establish organizational structures of procedures which assure equal treatment and equitable access to the facilities and educational benefits of the institution for all students.

UNL complies with all applicable laws promoting equal educational and employment opportunities by eliminating unlawful discrimination.

Information concerning violations of the policy and inquiries regarding UNL compliance with equal opportunity mandates affirmative action, and other inclusions should be directed to:

O’Fice for Equity Access and Diversity Programs
University of Nebraska-Lincoln
128 Canfield Administration Building
PO Box 880437
Lincoln, NE 68588-0437
(402) 472-3417 (voice) TDD

A formal discrimination grievance procedure is available at UNL for those seeking redress. Copies of the University of Nebraska-Lincoln Policy and Procedures on Unlawful Discrimination, including Sexual and Other Harassment are available from the O’Fice for Equity Access and Diversity Programs and in most departments. Those wishing to file formal complaints outside UNL may contact the Equity Access and Diversity Programs O’Fice for appropriate names and addresses of external agencies to which such communications may be directed. Students who believe that discrimination occurred within the educational setting may also contact the Director of the O’Fice for Civil Rights, Department of Education, Washington, D.C. 20202.

Student Honor Code

The University of Nebraska is a unified community, and we are proud of our heritage. As we look with optimism towards the future, we strive to adhere to the following code:

I will be respectful of all others’ thoughts and aspirations and will look upon them with equality and fairness.

I will be compassionate always mindful of those less fortunate than I.

I will be honest with whom I interact, practicing integrity in my daily decisions.

I will be mindful of the investments others have made in the University, realizing my own responsibilities in life.

And I will always be dignified in who I am, striving for excellence in all I do.

Ratified by the UNL Senate on April 2, 1997.

Goverance

The Board of Regents

An eight-member board serves as the governing board for the University of Nebraska-Lincoln, the University of Nebraska Medical Center, the University of Nebraska at Omaha, and the University of Nebraska at Kearney, the four institutions that comprise the University of Nebraska system. Members of the Board of Regents are elected from representative districts in accordance with University policies and duties and conduct in regard to their employment in accordance with University policies and rules and applicable state and federal laws.

Elected Members

Term expires January 2009
Howard Hawkes, M.D., Omaha (District 2)
Charles S. Wilson, M.D., Lincoln (District 1)

Term expires January 2011
Bob Phares, Scottsbluff (District 7)
Kent Schroeder, J.D., Kearney (District 6)

Term expires January 2013
Randolph M. Ferlic, M.D., O’Maha (District 8)
Chuck Hassebrook, Lyons (District 3)
Jim McClurg, Ph.D., Lincoln (District 5)
Bob Whitehouse, Papillion (District 4)

Student members

Jonathan Hening, University of Nebraska at Kearney
Amber Lewis, University of Nebraska at Kearney
David Solheim, University of Nebraska at Omaha
Alex Williams, University of Nebraska at Omaha

The University of Nebraska

Administration

James B. Milliken, J.D., President
Linda R. Pratt, Ph.D., Interim Executive Vice President and Provost
Donal J. Burns, Ph.D., Associate Executive Vice President and Provost, Corporation Secretary

Peter G. Kotzopulos, B.S., Vice President for University Affairs
David E. Lechner, B.S.B.A., Vice President for Business and Finance
Richard R. Wood, J.D., Vice President and General Counsel

The University of Nebraska-Lincoln Administration

Harvey S. Perlman, J.D., Chancellor
Barbara A. Couture, D.A., Senior Vice Chancellor for Academic Affairs
Juan N. Franco, Ph.D., Vice Chancellor for Student Affairs
Christine A. Jackson, M.B.A., Vice Chancellor for Business and Finance
John C. Owens, Ph.D., Vice Chancellor for the Institute of Agriculture and Natural Resources
Prem S. Paul, D.V.M., Ph.D, Vice Chancellor for Research and Dean of Graduate Studies
Linda R. Crump, J.D., Assistant to the Chancellor for Equity, Access and Diversity Programs
Herbert E. Howe, Jr., Ph.D., Associate to the Chancellor
M. Colleen Jones, Ph.D., Assistant to the Chancellor for Organizational Development
Margaret Hauerman, Ph.D., Director of University Communications
William J. Nunez, Ph.D., Director of Institutional Research and Planning
Michelle Waite, B.A., Assistant to the Chancellor for Community Relations

The University of Nebraska-Lincoln Deans

David H. Allen, Ph.D., Dean of the College of Engineering
Alan L. Cerveny, M.S., Dean of Admissions
Gary L. Cunningham, Ph.D., Dean and Director of the Agricultural Research Division
Elbert C. Dickey, J.D., Dean of the College of Arts and Sciences
Richard R. Wood, J.D., Chancellor

Deans-Omaha Programs

Virginia P. Tilden, D.N.Sc., Dean of the College of Nursing (UNMC)
Burton J. Reed, Ph.D., Dean of the College of Public Affairs and Community Service (UNO)
John W. Reinhardt, D.D.S., Dean of the College of Dentistry (UNMC)
UNL Admission Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>Minimum Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 units of English&lt;br&gt;     All units must include intensive reading and writing experience.</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4 units of mathematics&lt;br&gt; Must include Algebra I, II, geometry and one additional unit that builds on a knowledge of algebra or geometry.</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>3 units of natural sciences&lt;br&gt; Including at least 2 units selected from biology, chemistry, physics, and earth sciences. One of the units must include laboratory instruction.</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3 units of social studies&lt;br&gt; At least one unit of American and/or world history and one additional unit of history, American government, and/or geography.</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2 units of a single foreign language&lt;br&gt; Students who are unable to take two years of foreign language in high school may still qualify for admission. Such students will be required to take two semesters of foreign language at the University of Nebraska. These students are still required to complete 16 units of academic courses for admission.</td>
</tr>
<tr>
<td>Class Rank or ACT/SAT</td>
<td>For assured admission, you must also graduate in the upper half of your class or have an ACT composite score of 20 or higher, or an SAT combined score of 950.</td>
</tr>
<tr>
<td>Transfer</td>
<td>For assured admission, in addition to completion of core course requirements, you must also show a C average (2.0 on a 4.0 scale) for your cumulative grade point average and a C average on your most recent term of college enrollment.</td>
</tr>
</tbody>
</table>

Admission to the University

A admission to the University is based on a student's demonstrated academic preparation for University-level work. Admission standards are established by the University of Nebraska Board of Regents and apply to all new, first-time, degree-seeking students. These admission standards apply to general admission to the University as well as admission to each undergraduate college with the exceptions of the College of Architecture, the College of Engineering, and the Hixson-Lied College of Fine and Performing Arts. Fine and Performing Arts requires auditions for admission to the School of Music, Dance and Theatre Arts Performance. Architecture, Fine and Performing Arts, and Engineering have higher minimum performance requirements and more specific core course requirements. See the college sections in this bulletin for additional information.

Admission Categories

Assured Admission. First-time students who graduate from an accredited high school, have successfully demonstrated competency in the required five subject areas, and meet minimum performance requirements are assured admission to the University. These five subject areas are English, mathematics, natural sciences, social studies, and foreign language. Successful completion of a minimum of 16 core course requirements, either at the secondary school level or at the college level, is typically used to demonstrate competency. Performance requirements for freshmen include an ACT composite score of 20 or higher, or an SAT combined score of 950 or higher, or a high school class rank in the upper one-half of the graduating class. Prospective transfer students are also expected to demonstrate competency in the core course requirements, as well as have a cumulative grade point average of at least a C average (2.0 on a 4.0 scale) and at least a C average in the last semester of college enrollment. Several UNL undergraduate colleges require higher grade point averages for transferring into specific academic programs. See the college sections in this bulletin for more specific information about transfer requirements.

Deferred Admission. Students who do not meet the requirements for assured admission will receive individual review by an admissions officer. Students who are admitted through the Admission by Review process will be admitted in full standing but may have certain conditions attached to their enrollment at UNL. Students who are admitted without having completed all 16 core course requirements, for example, will be required to successfully complete specific course work in the area of deficiency. A student is expected to successfully complete this course work either prior to enrolling at UNL or by enrolling in the specified course work in the student's first semester at UNL and each subsequent semester. The time period for removal of deficiencies is explained in "Removal of Deficiencies" on page 6.

Nontraditional students, home-schooled students, students who are at least 18 years of age and who complete equivalent academic training such as the General Education Diploma (GED) and others who may have special admission situations will be considered under Admission by Review.

Deferred Admission. Students who do not meet the requirements for assured admission and are not admitted after individual review of their application materials will be deferred until they have gained additional academic preparation. Any student who believes that a disability of any kind may be preventing the student from meeting the published admission requirements should contact Services for Students with Disabilities, 132 Canfield Administration Building, (402) 472-3787, for further assistance.

Removal of Deficiencies. Because admission requirements establish the level of knowledge and skills which are needed for a student to succeed at UNL, students who are admitted with core course deficiencies are expected to quickly remove them. Although students are encouraged to remove all admission deficiencies prior to enrolling at UNL by taking course work in high school, by correspondence, or in a community college, students who choose to remove their admission deficiencies at UNL will be required to enroll immediately in the specified courses needed to remove their deficiencies and to remain enrolled in such courses each term until their deficiencies are fully removed. Students must remove admission deficiencies within the following time periods:

- 4th year math admission deficiency—no later than either 1) the semester in which the student has attempted his or her first 30 credit hours at UNL or 2) if longer, one calendar year from the time the student first enrolled at UNL.
- any foreign language admission deficiency—no later than either 1) the semester in which the student has attempted his or her first 60 credit hours at any campus in the university system, or 2) if longer, two calendar years from the time the student first enrolled at any campus in the university system.
- all other admission deficiencies—no later than either 1) the semester in which the student has attempted his or her first 30 credit hours at any campus in the university system or 2) if longer, one calendar year from the time the student first enrolled at any campus in the university system.
These time periods represent the maximum period for removing admission deficiencies. Shorter periods may apply in individual situations depending upon a variety of factors considered in the admission review process (e.g., the expected graduation date, the program in which the student wishes to enroll, the sequence of courses required to remove the admission deficiency).

Students who fail to successfully compensate for their admission deficiencies within the established time will not be allowed to continue their enrollment at UNL until they have removed all their deficiencies.

College-level course work taken to remove high school course requirements will not count toward graduation requirements in most of the undergraduate colleges at UNL. It will be used as elective credit only in some of the undergraduate colleges. The College of Business Administration and the College of Architecture will not count these courses towards meeting graduation requirements not even as elective credit. The College of Agricultural Sciences and Natural resources will consider courses taken to remove deficiencies to satisfy graduation requirements.

The College of Education and Human Sciences course work taken to remove high school deficiencies policy is available in the College Academic Advising Center, 105 Henzlik. Additional information about University policies governing the removal of admissions deficiencies is available from the student’s academic adviser.

For University policy, see “Graduation Requirements” on page 16.

Applying for Admission

All first-time freshman and transfer applicants must provide the following:

1. A completed and signed admission application;
2. An official high school transcript (and final transcript if following graduation);
3. Standardized test scores from the testing agency (freshman applicants under the age of 23);
4. GED scores (if applicable);
5. A $45 nonrefundable application fee; and
6. Official transcripts from all postsecondary institutions attended whether credit was awarded or not.

An application for admission and additional information about applying for admission can be obtained on-line at admissions.unl.edu or by contacting:

Office of Admissions
University of Nebraska-Lincoln
1410 Q Street
PO Box 880256
Lincoln, NE 68588-0256
(402) 472-2023
(800) 742-8800 (toll-free)
admissions@unl.edu

Admission Deadlines. Applications for admission can be submitted up to one year in advance of the term the student is planning to attend and should be submitted as early within this timeframe as possible. Applications are processed on a rolling basis, which means that a decision is made as soon as complete documentation is received. All application materials must be submitted or postmarked by the following deadlines:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Application Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>December 1</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>May 1</td>
</tr>
<tr>
<td>Summer Sessions</td>
<td>May 1</td>
</tr>
</tbody>
</table>

New Student Enrollment. All new, first-time UNL students participate in New Student Enrollment for advising, orientation, and registration. The program is coordinated with the undergraduate colleges, the Office of Registration and Records, and the Division of Student Affairs. All admitted students receive information about the process to New Student Enrollment, Big Red Welcome and New Student Convocation. The NSE office is located at 1410 Q Street and is open year-round to answer questions and serve as a resource for new students.

Residency. Students whose eligibility for residency status cannot be determined at the time of application and who wish to be considered residents of Nebraska for the purpose of paying in-state tuition will be required to demonstrate that they have lived continuously in the State of Nebraska for at least 12 months prior to the term for which they are seeking residency and that the primary reason for moving to Nebraska was for purposes other than attending a postsecondary institution.

Other categories for establishing residency include graduation from a Nebraska high school (and being a legal resident of Nebraska at the time of graduation), membership in a Native American tribe that is indigenous to Nebraska, being a recruited or transferred employee, and active duty military whose official residence is in Nebraska.

Individuals who live outside the State of Nebraska but pay Nebraska income taxes may qualify for income tax credits toward the nonresident portion of their tuition. Information and applications for the income tax credit is available from the University of Nebraska Lincoln Office of Student Accounts, 124 C Anfield Administration Building, 472-2887.

RASE is a reciprocity agreement between the University of Missouri-Columbia and the University of Nebraska-Lincoln that allows Missouri residents in designated programs to be charged in-state tuition at U N L and vice versa. At U N L, the majors available under the program are actuarial science, architecture, community and regional planning, and construction management. This is the only reciprocity agreement in which the University of Nebraska-Lincoln is a participant. Additional information about RASE is available from the Office of Admissions at U M C and U N L.

It is the responsibility of the applicant to provide any required documentation for the purpose of establishing residency. Detailed information about establishing residency for the purpose of paying in-state tuition is available from the Office of Admissions.

Transfer Students. A student who has attended a postsecondary institution other than the University of Nebraska-Lincoln since graduating from high school should apply for admission as a transfer student. Applicants must have demonstrated competency in the five subject areas by completing the 16 core course requirements either at the high school or college level and have a minimum cumulative grade point average of C (2.0 on a 4.0 scale) and at least a C average in the last semester of college enrollment. (NOTE: M any UN L undergraduate colleges require higher grade point averages for admission to their programs.)

College-level course work taken to demonstrate competency in the 16 required core courses will not count toward graduation requirements in most of the undergraduate colleges at UNL. See “Removal of Deficiencies” on page 6.

Students can usually transfer credit hours earned at accredited colleges, but UNL reserves the right to accept or reject any transfer hours presented by the student. A maximum of 66 hours can be accepted in a two-year college. The dean’s office of the UNL undergraduate college in which the student plans to enroll will make the final determination regarding the applicability of the transfer credits to the student’s program of study.

To apply for admission, transfer applicants should complete UN L’s application for admission and request that all colleges and universities they have attended send their official transcripts directly to the Office of Admissions. Students must also submit official high school transcripts. Applicants who do not meet the requirements for admission for applicants with admission deficiencies may be admitted by review. (See Admission Review and Removal of Deficiencies under “Admission Categories” on page 6.)

Former Students. Former UNL students who have not been in attendance for three or more consecutive semesters (count as one semester) must apply for readmission in order to be eligible for register classes. They can do this by completing a Reentering UNL Student Application for Admission and providing official transcripts from any other college or universities they have attended since their last enrollment at UNL.

Readmission to the University of Nebraska-Lincoln is not automatic for students who have been academically dismissed or failed to clear all admission deficiencies. Before seeking readmission to the University, the student must clear all admission deficiencies. Once all admission deficiencies are cleared, students who were not academically dismissed may immediately apply for readmission. Students who have been academically dismissed may only apply for readmission after they have removed all admission deficiencies and the mandatory period of two consecutive semesters of non-enrollment has been met. (Summer Sessions, collectively count as one semester.) Following this period of non-enrollment, students must complete a Reentering UNL Student Application for Admission, a Re-enrollment Scenario, and a transfer transcript, which is available on the Office of Admissions Application materials, including transcripts from institutions attended since being dismissed, must be submitted by the
admission deadlines. For more information about readmission to the University, see “Academic Standards” on page 14.

Student-at-Large Applicants. The University offers a nondegree admissions category for students who are: 1) visiting students from another college who are in good academic standing; 2) high school students who have permission from their high school to enroll in University courses; or 3) adults living in the area who wish to take a course or two for their own personal or professional development. Students-at-Large are restricted to enrolling in no more than six credit hours per term and must reapply each term. Additional hours may be taken upon approval by the designated officers within the Office of Admissions. Students admitted as students-at-large are ineligible for scholarships or federal financial aid. Any student denied admission as a degree-seeking student is not eligible to apply as a student-at-large.

International Applicants. Foreign nationals should obtain the brochure, International Admissions Information and Application, and follow the instructions provided there for applying to the University. The brochure is available from the Office of Admissions.

Graduate Applicants. For information about admission to the University as a graduate student, see “Graduate Studies” on page 22 of this bulletin.

Professional College Applicants. Professional college applicants should contact the appropriate college about admission procedures approximately one year before intended enrollment. The College of Dentistry (including dental hygiene), College of Medicine, College of Nursing, and College of Pharmacy are administered by the University of Nebraska Medical Center in Omaha; UNL administers the College of Law.

Office of Admissions. Specific questions regarding the University’s admission requirements can be directed to:
Office of Admissions
University of Nebraska—Lincoln
1410 Q Street
PO Box 880256
Lincoln, NE 68588-0256
(402) 472-2023 or (800) 742-8800 (toll-free)

All undergraduate applications are available online at http://admissions.unl.edu.

Undergraduate Transfer Credit Policy

This statement outlines important information for students who present undergraduate credit for transfer to a degree program at the University of Nebraska—Lincoln. Transfer credit is any post-secondary credit earned at an institution outside the University of Nebraska—Lincoln, including other institutions in the University of Nebraska System (NCTA, UNK, UNO, and UNMC).

The college within the University of Nebraska—Lincoln in which a student enrolls (the degree college) has ultimate responsibility for determining how all credit, including transfer credit, will apply to a specific degree program. Evaluation of transfer credit is based on a review of the comparability of the nature, content, and level of experience and appropriateness to the student’s degree program. The acceptance and use of transfer credit are subject to limitations in accordance with the educational policies of the University of Nebraska—Lincoln.

Application for Admission of students with transfer credit

- Any student who transfers to UNL with fewer than twelve semester hours of college credit or who has postsecondary credit earned before high school graduation must meet the freshman admission requirements.
- Transfer applicants are those who currently are taking or have taken more than 12 semester credits of college or university-level course work since high school graduation.
- A student who is not a U.S. citizen and does not have permanent resident authorization from the U.S. immigration service and who has attended a post-secondary institution should apply as an International Transfer Student.
- Any student who is attending or has attended one of the four universities in the University of Nebraska System and is making application for admission as a degree-seeking student at a new university of Nebraska eebra to campus should use a Change of Campus form. Application for admission to the new campus is required.
- Questions about admission requirements should be directed to Office of Admissions, 1410 Q Street, Alexander Building East, 402-472-2023, or online at admissions.unl.edu.

Transfer Credit Practices

The University of Nebraska—Lincoln endorses the Joint Statement on Transfer and Award of Academic Credit approved by the American Council on Education (ACE), the American Association of Collegiate Registrars and Admissions Officers (AACRAO), and the Council for Higher Education Accreditation (CHEA). The current issue of Transfer Credit Practices of Designated Educational Institutions, published by AACRAO, is an example of a reference used in determining transfer credit. Applicants must request an official transcript sent to the Office of Admissions from each college attended. Failure to provide transcripts from all colleges or universities attended may result in denial of the application or dismissal from the university. Grades from institutions outside the University of Nebraska System will be used for evaluation and admission, but not become part of the University cumulative Grade Point Average (GPA). Each degree college determines its policy for acceptance and application of grades below C to degree requirements.

A. Credit presented for transfer from within the University of Nebraska System

Credit earned at any institution within the University of Nebraska System will be accepted by UNL. Applicability of degree requirements is determined by the student’s degree college. Direct course equivalencies with UNK, UNO, and UNMC, established by faculty, are maintained by the University System and are available online at www.nebraska.edu/students/. Transfer courses equivalencies. Direct equivalencies have been established by UNL for courses from a number of institutions including Nebraska Community Colleges and Nebraska College of Technical Agriculture. Applicability of courses without direct equivalencies will be at the discretion of the degree college. Transfer Course Equivalency tables are available online at http://admissions.unl.edu/tequiv/index.asp. While every effort is made to ensure accuracy, this information is subject to change.

C. Credit presented for transfer which requires additional review by the degree college

The following types of transfer credit require additional review by the student’s degree college within UNL to determine applicability to the student’s program of study.

- Credit in courses presented for transfer which do not have a direct equivalent as established by UNL.
- Credit in courses determined by the University of Nebraska—Lincoln to be of developmental, vocational, or technical nature.
- Credit in courses or programs in which the institution granting the credit is not directly involved.
- Credit presented for transfer from institutions not accredited by one of the regional accrediting commissions (www.chea.org)
- In determining the acceptability of transfer credit from colleges which are not regionally accredited, acceptance practices indicated in the current issue of Transfer Credit Practices of Designated Educational Institutions, an AACRAO publication, will be used as a guide. For institutions not listed in the publication, guidance is requested from the designated reporting institution of the appropriate state.
- Credit presented for transfer from institutions outside the United States Transfer credit from foreign educational institutions may be granted after a determination of the type of institution involved, its recognition by the educational authorities of the foreign country, and an evaluation of the content, level, and comparability of the study to courses and programs at a University of Nebraska—Lincoln. Credit may be granted in specific courses or assigned to general areas of study. Questions about foreign credits and institutions systems should be directed to the Office of Admissions.

Special Situations, Qualifications and Limitations related to Transfer of Credit

- Applicability of transfer credit to degree requirements

While every effort is made to ensure accuracy, this information is subject to change. While every effort is made to ensure accuracy, this information is subject to change. While every effort is made to ensure accuracy, this information is subject to change.
• Transfer credit from two-year institutions
  No more than 66 semester or 98 quarter credits earned at two-year colleges can be applied to an undergraduate degree from University of Nebraska-Lincoln.

• Lower division credit
  Lower division courses transferred to UNL will generally be used to meet lower division requirements. In the event that a lower division transfer credit granted by another institution is a substitute for an upper division requirement at the university a student may be required to complete additional upper division hours for graduation.

• Residency requirement
  The University's colleges may require that specific courses or a certain number of credit hours be completed on the UNL campus to satisfy the residency requirement.

• Dual Credit earned while a student is enrolled in high school
  When a student earns both high school and college credit for a course, the student must present a transcript from the original postsecondary institution offering credit for the course. Such courses will be evaluated as transfer credit.

• Other credit earned while in high school
  M any students enroll in one or more college courses while enrolled in high school. An official transcript of all courses attempted must be presented upon application unless the credit was earned at UNL. Credit from institutions outside the University of Nebraska-Lincoln will be evaluated as transfer credit.

• Credit earned in the US Armed Forces
  Students with military service will be awarded 1 credit of military science for every three months of active duty up to a total of four credits. Credit for technical or specialized schools will be accepted to the extent that the material is applicable toward degree requirements at UNL.

• Credit by Examination (CBE)
  Programs accepted at University of Nebraska-Lincoln include the Advanced Placement (AP) Program, the International Baccalaureate (IB) Examinations, the College Level Examination Program (CLEP), and departmental examinations. For information on specific exams and required scores accepted for credit at UNL see: http://admissions.unl.edu/advanced/ #. Credit by Exam (AP, IB, or CLEP credit) may not be transferred directly to University of Nebraska-Lincoln from another institution. However, the scores from these examinations may be sent to University of Nebraska-Lincoln from the testing agency, and credit will be awarded based on UNL's SAT, IB, and CLEP policies.

  Students who anticipate applying to professional programs should inquire about the acceptability of Credit by Exam before registering for exams.

• Credit by Departmental Examination
  Credit by departmental examination allows regularly enrolled students to gain academic credit for knowledge they have acquired by self-study or experience. The student's knowledge base is expected to parallel that of the specific UNL course for which the student wishes to gain credit. A fee of one-half of resident tuition is charged to administer and/or evaluate an examination for credit. Examinations for credit through UNL departments may be taken only by currently enrolled students. A student is not permitted to receive credit by examination in a course which is a prerequisite for a course already taken. Credit earned by examination is not applicable for use in an advanced degree program. Credit for another college for placement exams or locally designed test-out examinations will not be accepted in transfer.

• University of Nebraska-Lincoln students who earn credit at another institution
  University of Nebraska-Lincoln students are urged to consult with the appropriate academic advisor before enrolling in any course intended to be applied to the student's degree. Non-UNL credit for Study Abroad programs will be evaluated as transfer credit upon receipt of official transcripts. C current UNL students who wish to enroll in a course at another institution in the NU System should file an Intercampus Application http://admissions.unl.edu/apply/intercampus.asp

• University of Nebraska-Lincoln students who wish to transfer from one UNL college to another
  Current UNL students seeking to gain admission to another degree college must meet all standards for admission to the new college as a transfer student. The new college will evaluate all of the student's credit, including transfer credit, to determine which credit will be applicable to degree requirements.

### Undergraduate Tuition and Fees

Tuition and fees are set by the University of Nebraska Board of Regents and may be changed at any time. At the time of publication, tuition rates had not yet been determined for the 2007-2008 academic year. As of first fall semester 2006, the tuition rate for undergraduate resident students was $160.00 per credit hour. The rate for undergraduate nonresident students is $475.00 per credit hour. Both resident and nonresident students are added for the University of Nebraska Program and Facilities Fees of $216.50 per semester for all students taking 1-6 credit hours and $78.60 per semester for those taking 7 or more credit hours. Summer fees listed in the Summer Sessions class schedule vary slightly from those charged for the first and second semesters. Tuition and fees for the first semester will be due September 12, 2007.

In addition to University Program and Facilities Fees, there are also modest fees for special services, such as laboratory fees and processing of late registrations. For a complete listing of current tuition rates, University Program and Facilities Fees, special lab fees, and special service fees, visit the UNL Student Accounts website at stuaccts.unl.edu.

### Scholarships and Financial Aid

The Office of Scholarships and Financial Aid administers a variety of federal, state and university financial aid programs which provide assistance to students who meet eligibility requirements, and the University's scholarship program, which recognizes exceptional academic talent and ability.

Most financial aid provided to students at UNL is coordinated through the Office of Scholarships and Financial Aid. In applying for financial aid, applicants need not limit their request to a specific grant or form of aid. Many students qualify for a combination of scholarships and need-based aid.

All scholarship and financial aid information is based on application procedures and dates for the 2007-2008 academic year. Students are encouraged to contact the Office of Scholarships and Financial Aid for changes in application procedures and dates for subsequent academic years.

For more complete information about rights and responsibilities of financial aid recipients, please refer to the Scholarships and Financial Aid website at www.unl.edu/scholarships.

### Scholarships

#### All-University Scholarships

The All-U. Scholarships are awarded by the Office of Scholarships and Financial Aid on a rolling basis to fall semester applicants. All-U. Scholarships include the Regent's Top Scholar, David Distinguished and Canfield Scholarships. Students recognized by the National Merit, National Achievement or National Hispanic Recognition Programs will be considered for scholarships.

#### General Criteria

All eligible new first-time freshmen who apply for admission by January 15, 2007 will be considered for the All-U. Scholarships. Awards will be based on each applicant's academic profile, including six semester class rank and ACT or SAT composite scores as of December 2006.

#### National Merit Scholarship

Full tuition plus $2,000, potentially renewable for up to four years.

#### National Achievement Scholarship

Full tuition plus $2,000, potentially renewable for up to four years.

#### National Hispanic Recognition Program

Full tuition plus $2,000, potentially renewable for up to four years.

#### University Honors Scholarships

The University offers two honors scholarships: the University Honors Program Scholarship and the J. D. Edwards Honors Program. Honors students must meet all university and college requirements, and the University's scholarship program, which recognizes exceptional academic talent and ability.

#### Regents Scholarship

The University's scholarship program, which recognizes exceptional academic talent and ability.

#### University Honors Scholarships

The University offers honors programs for students interested in business and computer science. An application is required for both programs.
Honors Program Scholarship (online application required): Up to $250 per semester, during the fall and spring semesters, for textbooks for up to 135 credit hours, four years, or the completion of a bachelor's degree, whichever occurs first.

J.D. Edwards Honors Program Scholarship (online application required): Equivalent of room and board in the Kaufman Center. Scholarship benefits will be adjusted for recipients whose institutional scholarships exceed tuition, fees and books.

Student Leadership Scholarships
The University of Nebraska recognizes students who excel and demonstrate leadership both inside and outside of the classroom. This recognition is shared with two scholarships: The Chancellor’s Leadership Class Scholarship and the Pepsi Service Scholarship. Additional information is required to be considered for these scholarships. Please refer to http://admissions.unl.edu/apply for details.

Chancellor’s Leadership Class Scholarship:
- Resume form required: $1,000 for freshmen year only.
- Pepsi Service Scholarship (resume form required, in-state applicants only): $1,000 for freshmen year only.

Geographical, Need-based and Other Awards
The University offers a wide variety of scholarships that consider an applicant’s academic record along with other factors such as the applicant’s county of residence, financial need, ability to enhance student ethnic diversity, musical and artistic talents, or other donor requirements.

General Criteria:
- All eligible students who apply for admission by January 15, 2007 will be considered. Some scholarships require you to complete additional forms or applications.

Other Undergraduate Scholarships
To determine eligibility for need-based aid, students must complete the Free Application for Federal Student Aid (FAFSA). The following year, FAFSA is available to file electronically at www.fafsa.ed.gov.

To be considered for all types of need-based assistance, the student’s FAFSA application should be completed and processed as soon as possible after January 1 and before April 1, each year. Students must be enrolled full-time at the University of Nebraska-Lincoln as a recipient of their FAFSA information. New students and returning students who must be re-admitted for the 2007-2008 academic year, must also submit an FAFSA application and provide the University of Nebraska as an authorized school. This includes submitting the appropriate application fee, test scores, and transcripts.

Satisfactory Academic Progress:
- Beginning with the fall 2007 term, students receiving federal Title IV financial assistance who withdraw will be subject to a calculation that determines "earned" and "unearned." The Title IV funds Before withdrawing, students should check with the Office of Scholarships and Financial Aid to see what if any repayment of federal aid may be required.

Federal Grants
Federal Pell Grant: The Federal Pell Grant is awarded on the basis of financial need to undergraduate students seeking their first bachelor's degree.

Academic Competitiveness Grant (ACG): ACG funds are awarded to full-time first and second-year undergraduate students who are U.S. citizens. Federal Pell Grant recipients, have completed a rigorous secondary school program and demonstrate financial need (second year students must maintain a 3.0 cumulative GPA).
National Science and Mathematics Access to Retain Talent Grand (National SMART). National SMART grants are awarded to full-time third and fourth year undergraduate students who are U.S. citizens. Federal Pell Grant recipients, enrolled in an eligible major and demonstrate financial need (second year students must maintain a 3.0 cumulative GPA).

Campus-Based Programs

Federal Supplemental Educational Opportunity Grants, Federal Work-Study, Federal Perkins Loans and Nebraska State Grants are federal and state programs administered by the Office of Scholarships and Financial Aid (OSFA) and awarded based on the student's financial need. Awards are made on a first-come, first-complete basis to qualified applicants. The student should be sure to submit the FAFSA, all admission application materials, and all documentation requested by OSFA as early as possible to be considered for these campus-based types of assistance. Like all other Title IV Federal programs, awarding is subject to the availability of federal and state funds.

Federal Supplemental Educational Opportunity Grant (FSEOG). The Federal Supplemental Educational Opportunity Grants are awarded to Pell-eligible students. Because the FSEOG is a grant, it does not require repayment.

Federal Work-Study. The Federal Work-Study program permits students to earn money through on- and off-campus employment.

Federal Perkins Loan. Federal Perkins Loans are low-interest loans that must be repaid following a "grace period" of nine months after the student graduates, leaves school, or drops below half-time enrollment status. A promissory note which defines the payment terms of the loan is completed at the time the loan is made.

Nebraska State Grant. Like all other grants, Nebraska State Grants are not repaid. These grants are awarded to residents of Nebraska who demonstrate significant financial need as defined by state statutes.

University Grants

University Tuition Assistance Grants. Tuition Assistance Program Grants, and UNL Opportunity Grants are University grant programs administered by the Office of Scholarships and Financial Aid (OSFA). These grants are awarded on a first-come, first-complete basis to qualified applicants based upon financial need, and do not require repayment. The student should be sure to submit the FAFSA, all admission application materials, and all documentation requested by the O SFA as early as possible to be considered for this grant assistance.

University Tuition Assistance Grants (UTAG). Awarded to full-time undergraduate students based on financial need and academic criteria as defined by the Board of Regents.

Tuition Assistance Program Grants (TAP). Awarded to full-time undergraduate students who are U.S. residents based on financial need and academic criteria as defined by the Board of Regents.

UNL Opportunity Grants (UNOG). Awarded to full-time undergraduate students who are U.S. residents with exceptional financial need.

Federal Direct Stafford Loan

The Federal Direct Stafford Loan is a loan made to the student by the federal government. Eligibility for a Federal Direct Stafford Loan will be indicated on the student's Federal Aid Notification. Additional information on the Federal Aid Notification will instruct students on how to complete an electronic Master Promissory Note, if necessary.

Loan repayment normally begins six months after a student graduates, leaves school, or drops below half-time enrollment status.

Federal Direct Unsubsidized Stafford Loan

This is a federal loan program whose terms and conditions (i.e., loan limits, deferments and interest rates) are the same as the Federal Direct Stafford Loan, with the exception that students are responsible for the interest during in-school and deferment periods. Interest accruing during those periods may be paid or capitalized as agreed to by the borrower and service. The Federal Direct Unsubsidized Stafford Loan will be indicated on the student's Financial Aid Notification.

Federal Direct PLUS Loan (Parent Loan for Undergraduate Students)

Federal Direct PLUS loans are for parents of dependent students. This loan provides additional funds to help the student and the student's family meet educational expenses. Like the Federal Direct Stafford Loan, this loan is made by the federal government; Federal Direct PLUS borrowers do not have to demonstrate financial need, but the dependent student must apply for federal aid by completing the FAFSA.

Eligibility for the Federal Direct PLUS loan will be indicated on the student's Financial Aid Notification. The Financial Aid Notification will also provide information indicating how to apply for the loan. The student's parents will be expected to begin repayment on these loans 60 days after the loan is fully disbursed.

Transfer Students

Transfer students applying for spring or summer financial aid must complete a FAFSA and submit all admission application materials to UNL as early as possible. FAFSA's are available to file electronically at www.fafsa.ed.gov. Summer aid applicants must complete UNL's Summer Financial Aid application available in WAM I under "My Financial Aid."

Veterans

All men and women planning to attend the University using veteran benefits or vocational rehabilitation laws administered by the Veterans Administration should inquire at the Office of Registration and Records, 107 Canfield Administration Building, before they register, to make sure that all necessary steps have been taken.

Scholarships and Financial Aid Deadlines for the 2008-2009 Academic Year

November 1, 2007, through March 1, 2008. Currently enrolled UNL students should complete the UNL Summer Scholarship Application available in WAM I under "My Financial Aid."

January 1, 2008. Earliest date a 2008-2009 FAFSA can be completed. Forms completed prior to this date cannot be used to apply for federal student assistance funds for 2008-2009.

January 15, 2008. High school seniors should submit the ADMISSIONS APLICATION and RESUME FORM by this date to be given scholarship consideration.

New students applying for financial assistance (grants, loans, and work-study) must also submit their application for admission, high school transcript, college transcripts (if applicable), and application fee to the UNL Office of Admissions. In addition, returning students who must be re-admitted to UNL must also submit all application materials necessary for re-admission.

Academic Policies and Procedures

Academic Adviser Assignment

The University considers faculty contact with students essential to academic planning and University life. Undergraduate students are assigned academic advisers through the college or department in which they are majoring. Undergraduate students who have not yet decided upon a college will be referred to an academic adviser in the Division of General Studies.

Students Responsibilities in Academic Advising

The University of Nebraska-Lincoln is committed to providing effective academic advising to students as an essential component of their educational experience. Department and college advisers are assigned to students in their programs for assistance in assessing educational goals, planning programs of study, understanding program requirements, and following policies and procedures. Professional academic advisers in the Division of General Studies provide these services to students who have not yet declared their undergraduate college or major.
Students are ultimately responsible for fulfilling all the requirements of the curriculum in which they are enrolled. Students are also responsible for initiating advising contacts and preparing for advising sessions. The mentoring relationship between academic advisers and students is confidential and is strengthened by advisers’ listening with understanding to student concerns. Students are expected to take responsibility for a successful university experience and effective advising by:

1. Participating in New Student Enrollment and priority registration programs
2. Scheduling appointments with advisers well in advance of priority registration and at other times as needed
3. Identifying class choices from requirements of the selected program or major
4. Identifying questions to address in advising sessions
5. Informing advisers of any special needs, deficiencies or barriers that might affect academic success
6. Following academic policies and procedures and meeting academic calendar deadlines (e.g., registration, fee payment, senior check, degree audit, filing for degree, etc.);
7. Knowing and completing degree or program requirements
8. Monitoring their progress toward meeting degree requirements by maintaining a copy of their academic records and seeking assistance to resolve any errors or questions;
9. Acting on recommendations to seek assistance from the various student support services provided by the University.

Registration for Courses

Priority Registration. Currently enrolled, fully admitted undergraduate students have the opportunity to take part in priority registration for each term. Priority registration for first (fall) semester and summer sessions is in mid-March; priority registration for second (spring) semester is in mid-October. Priority registration is important to increase the chance of getting needed classes. The exact procedure for registration is outlined in each semester’s Schedule of Classes and in the Summer Sessions Bulletin.

Newly admitted freshmen and undergraduate transfer students will receive materials regarding New Student Enrollment (NSE) from the Office of Admissions. NSE provides the opportunity for newly admitted students to meet with an adviser and register for classes.

Open Registration. The registration process is available to all eligible students who did not early register or participate in New Student Enrollment. The open registration process occurs prior to the beginning of classes each term, but after priority registration closes. See the Schedule of Classes and the Summer Sessions Bulletin for exact dates and procedures.

Drop and Add. A student who has registered may drop or add classes for the upcoming semester after their initial registration. The drop-and-add period extends through the first six days of classes of the new semester. No courses may be added after the sixth day of the new semester without the written permission of the student’s college and the instructor of the course.

After the first six days of classes, a student will have to pay a portion of the tuition for any course dropped (even if another course is substituted). A student may drop a full-semester course without the instructor’s permission through the twelfth week of the semester. All courses dropped after the second week of the term will be noted on the student’s record with a W grade. After the twelfth week of the semester no courses may be dropped.

Drop-add periods for summer session classes are adjusted appropriately based on their limited duration.

For complete procedures, dates, and regulations, see the Schedule of Classes and the Summer Sessions Bulletin.

Auditing a Course. Auditing gives a currently enrolled student (or currently admitted student) the privilege of attending class, but credit is not earned and a grade is not assigned when auditing a class. All persons wishing to audit a course must be admitted and eligible to enroll in classes for the term in which they audit. Courses involving outside laboratory work are generally not open to auditors.

A audited class carries no credit and does not count toward full-time status. All audits for a term must be declared by the student and endorsed by the instructor no later than the sixth day of class. The fee for auditing a course is the same as the regular resident or non-resident tuition for the term and both UPF and other course fees will apply to the class.

For complete procedures for auditing a course, see the Schedule of Classes and the Summer Sessions Bulletin.

Student Classification

Students who have earned 26 credit hours or fewer are classified as freshmen; those with 27-52 credit hours are sophomores; those with 53-88 credit hours are juniors; and those with 89 credit hours or more are seniors.

Student Status

Undergraduate students enrolled for 12 or more credit hours at the University in a semester are full-time students. College Independent Study via correspondence courses do not apply toward full-time status.

Student Identification Cards

All students enrolling at UNL for the first time are required to own and pay for a student N Card. There is a $20.00 fee for issuance of the card. N undergraduate students as well as new international students are assessed this fee on their Consolidated Billing Statement. Other students needing a student N Card will pay the $20.00 card fee when they are issued their N Card.

The photo ID card is valid for such services as dining in the residence halls, entrance to Campus Recreation facilities, accessing materials in the University Libraries, and for making charges on campus and it provides access to other services which most students use repeatedly during their enrollment at UNL. Lost cards are replaced for a $20.00 fee. For more information or assistance contact the N Card Office, M An N Level of the University Union, Room 121, City Campus (402) 472-7331.

Maximum Credit Hour Load

Undergraduate students may register for up to 18 credit hours per semester, except for the College of Business Administration which allows a maximum of 19 credit hours and the College of Arts and Sciences and the Hixson-Lied College of Fine and Performing Arts which allow a student to register for up to 20 credit hours. Written permission from the college dean is required to exceed the credit hour per semester maximum and must be filed with an Over-ride Authorization Form at the time of registration.

Class Attendance

Students are expected to attend all lectures, recitations, quizzes, and laboratories regularly. The University has no regulation which permits cutting classes.

Students are responsible for the attendance policy set by instructors and should clear absences directly with them.

In cases where a student is unable to contact his or her instructors due to major illness, serious injury, or hospitalization when given military orders which are effective immediately, a notice may be sent to the student’s instructors by the University Health Center, a family physician, or the Student Affairs Office, 106 Caffe Field Administration Building, 472-3755. This notice is for the instructor’s information only and does not relieve the student of contacting instructors as soon as possible.

Students involved in University-sponsored activities, including intercollegiate athletics, may need to be excused from a class, lab, or studio meeting. In all instances it is the student’s responsibility to request permission for the absence (preferably in writing) from the instructor and to discuss how the absence will affect their ability to meet the course requirements. Students should do this as soon as possible. While instructors should seek to the greatest extent possible, consistent with course requirements, to make reasonable accommodation for a student involved in University-sponsored activities, students should recognize that not every course can accommodate absences and neither the absence nor the notification of the absence relieves them from meeting the course requirements.

For complete information on class attendance, see the Schedule of Classes.

Courses of Instruction

Class Meeting Time

The number following the activity type (if listed) in the course listings indicates the approximate clock hours the course activity meets.

Credit Hours

At the University of Nebraska-Lincoln, a semester credit hour represents the completion of a total of one or more hours of work per week for one semester (approximately 15 weeks of instruction and a week of final examinations), consisting of, but not limited to, formally scheduled events such as lectures, examinations, laboratory, quizzes, seminars, studios, recitations, and other activities by arrangement, and the informal, which includes research, study and
preparation time. A final examination may also be required. The summer terms follow a prorated schedule. A mini-course is a course that does not follow the standard begin and/or end dates for the term.

### Course Numbering System

Courses numbered less than 100 do not carry college credit. In general, courses numbered 100-199 are for freshmen, 200-299 for sophomores, 300-399 for juniors, and 400-499 for seniors. Courses designated 400/500 are offered under graduate or college credit. Courses at the 800 level without counterpart 400 or lower series numbers are identified in this bulletin with an asterisk (*) and are open to graduate students only. Courses numbered in the 500, 600, and 700 series are professional level courses (i.e., architecture, law, veterinary medicine, etc.) and are open exclusively to students admitted to these programs. Courses in the 800 and 900 series are open exclusively to graduate students except by permission of the Dean for Graduate Studies. See the Graduate Studies Bulletin for descriptions of the graduate-level courses.

An [S] before a course number means the course carries EsSentials Credit. An [IS] before a course number means the course carries Integrative Studies Credit.

A academic subject names with course numbers in parentheses following the course title indicate that the course is offered (cross-listed) in two or more academic subject areas and that credit toward the degree can be earned in only one of the academic subject areas according to registration.

Course numbers in brackets [ ] are offered through Extended Education and O urch. An "X" at the end of the course number indicates College Independent Study courses (offered by Extended Education and Outreach). See the Schedule of Classes for "X" courses offered on a "term basis". The letter suffix "H" at the end of the course number indicates an honors course.

### Term Code

The term code 071 or 07-05 2007-08 is the 1st semester of the 2007-2008 academic year.

### Term Course Offered

A Roman numeral(s) following the credit hours in the course description indicates the term(s) the course is usually offered, i.e., I=1st semester; II=2nd semester; III=summer term.

### Maximum Credit Toward Degree

The last digit in the credit hour field (indicated with parentheses) in the course listings is the maximum credit allowed in the course toward the degree unless indicated otherwise.

### Subject Area Abbreviations

The University of Nebraska-Lincoln uses the following standard abbreviations for academic subject areas and program titles as part of course descriptions:

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<th>Subject Area Abbreviation</th>
<th>Subject Area Title</th>
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Abbreviations and Symbols

Commonly Used In The Bulletin:

- anly or anlys — analysis
- appl or apps or ap — application
- arr — arranged
- corec — corequisite (See parallel)
- coreg — coregistration (denotes taking another class along with the one listed) (See parallel)
- cr or Schrs — credit or credit hours
- cr arr — credit hours arranged
- cum — cumulative
- D — Extended contract course
- Ed or Educ — Education
- ES — Essential Studies Program element
- F — Distance Education “Field” Class
- fld — field fund or fun — fundamentals
- G — graduate
- GPA — Grade Point Average
- grad — graduate
- H — Honors
- hr — hour
- I or inc — incomplete
- ind — independent
- intermed — Intermediate
- intro or intr — Introduction
- IS — Integrative Studies Program element
- L — laboratory with credit hours
- Lab — laboratory
- Lec — lecture
- max — maximum
- N or N — No Pass
- N — N or Pass
- P — Pass
- Pass — Pass
- N or Pass — No Pass or Pass
- P/N — Pass or No Pass
- PO — Pass or No Pass option
- parallel — denotes taking another class along with the one listed (a corequisite or coregistration)
- prereq or qreq — prerequisite
- princ — principles
- Pro or prof — professional
- PSI — Personal System of Instruction
- rec — recreation
- recitation
- res — research
- S — (denotes) Distance Education class
- sec — secondary
- smnr — seminar
- studio
- TBA — to be assigned
- tchr — teacher
- tech — teaching
- UG — undergraduate
- UNMC — University of Nebraska Medical Center
- UNO — University of Nebraska Omaha
- W — withdraw
- X — College Independent Study course
- & — and
- + — greater than
- < — less than
- dash or “to”

Course Prerequisites and Corequisites

Course prerequisites indicate the level of preparation a student must have had to take a given course. Equivalent preparation is generally sufficient. If there is doubt about a student’s preparation level, permission to enroll may be requested from the instructor of the course or from the department chairperson. Academic departments reserve the right to deny admission in a course if the prerequisite has not been completed. Academic departments reserve the right to give permission or waive the prerequisite for any course or to substitute for the prerequisite learning obtained by other means than through the prerequisite course(s). See the Courses of Instruction section for each undergraduate college in this bulletin for official listing of course prerequisites.

The use of the words “parallel”, “corequisite”, or “coregister with” in the prerequisite for a course means that both courses are to be taken simultaneously.

Grading System

The University uses an A through F grading system. The letter grades with point value (in parentheses) are: A (4.0), A- (3.67), B+ (3.33), B (3.0), B- (2.67), C+ (2.33), C (2.0), C- (1.67), D+ (1.33), D (1.0), D- (0.67), and F (0). Grades of W (dropped) or (withdrawn) I (incomplete), P (pass credit only), and N (no pass) may also be given. W, I, P, and N are not assigned grade points and therefore are not used in computation of a student’s grade point average.

Academic Standards

Probation. A student who receives a semester grade point average (GPA) of less than 2.00 or ends a semester with a cumulative GPA below 2.00 will be placed (or will continue) on probation. The student will remain on probation until a semester is completed with both a semester and cumulative GPA of at least 2.00 and cumulative GPA below 2.00 at end of prior semester, or until the student is dismissed.

Academic Dismissal. A student will be dismissed from UNL at the end of any semester * in which the following conditions exist:
1. Cumulative Credit Hours 1-18: more than one semester attended and a cumulative grade point average (GPA) below 1.00.
2. Cumulative Credit Hours 19-45: cumulative GPA below 2.00 at end of prior semester, and both semester and cumulative GPAs are below 2.00 or three consecutive semesters on probation. The unsuccessful semester which places the student on probation is considered the first of the three consecutive semesters on probation.
3. Cumulative Credit Hours 46 and above: cumulative GPA below 2.00 at end of prior semester, and both semester and cumulative GPAs are below 2.00 or three consecutive semesters on probation.

** NOTE: For the purposes of enforcing academic standards, cumulative credit hours include the following:
1. Credit hours that a student registered for and did not drop during the first two weeks of the course. These are the courses that are subject to a grade.
2. All transfer hours presented.

Readmission. A student who has been dismissed from UNL will lose enrollment privileges for at least two consecutive semesters (the four summer sessions count as one semester) and will not be allowed to enroll until all admission deficiencies have been cleared. Readmission to UNL is not automatic. A dismissed student may apply for readmission to UNL for the semester following the mandatory “drop-out” period or any subsequent semester. Applications for readmission will be evaluated by the Office of Admissions in accordance with criteria established by each of the colleges. Decisions regarding specific college readmission will be made by the individual college in which the student seeks to enroll after readmission.

Honors Convocation Recognition Requirements

Honors Convocation recognition requirements for students entering the University after the Spring Semester 2004 require that those eligible for recognition be in the top ten percent of their college class based on their cumulative grade point average (but with a cumulative GPA below 3.67) and meet the additional requirements stated below.

Students whose first college matriculation at UNL (after high school graduation) occurred before June 2004 will be recognized on the basis of recognition requirements in force at that time. This policy will also apply to transfer students from UNO and UNK whose first college matriculation at those institutions preceded the June 2004 implementation of the recognition criteria.

Honors Convocation criteria for students entering the University in the 2004-05 academic year and after are listed below. Students will be recognized only for the highest award for which they qualify.

High Scholarship. Students must be in the top ten percent of their college class based on their cumulative grade point average and meet the following specific requirements:
1. Required semesters in residence at UNL: juniors and seniors must have completed at least 3 semesters or 42 credit hours at UNL; sophomores must have completed at least 2 semesters or 28 credit hours; freshmen must have completed at least 1 semester or 12 credit hours.
2. Hours completed first semester: Seniors must complete a minimum of 9 hours of which 6 must be graded A through F. (Student teachers in the College of Education and Human Sciences may be exceptions.) Students graduating in December may take only those hours needed for graduation. Juniors, sophomores, and freshmen must complete a minimum of 12 hours first (fall) semester, at least 9 of which are graded A through F.

Superior Scholarship. Superior scholarship students are seniors graduating between December and August who: 1) meet the requirements for high scholarship for seniors, and 2) are in the upper three percent of the senior class of their college or have been on the UNL Honors Convocation list each year since matriculation as a freshman.

Chancellor’s Scholars. Seniors graduating between December and August qualify for this award if they meet the following criteria.

1. Graduating seniors must have earned the grade of A in all graded collegiate work at UNL and at other institutions and a grade of P for all classes taken in the Pass/NP grading option (excluding foreign study and collegiate work taken prior to the student’s graduation from high school). The student must request the exclusion of a grade taken prior to graduation from high school and the re-calculation of the GPA in writing to the University Honors Program, 118 NRC, 0659, by March 1. At least 42 graded semester hours must have been earned at UNL by the end of first (fall) semester of the academic year of graduation.

2. During first semester, a student must complete a minimum of 9 total hours with no more than 3 hours of Pass / No Pass course work. (Student teachers in the College of Education and Human Sciences may be exceptions.) Students graduating in December may take only those hours needed for graduation.

General Information. Students with grade changes or students finishing incompletes after January 1 should contact the Office of the University Honors Program to see that these changes have been recorded.

All grades are averaged in figuring cumulative GPA. Students repeating a course to remove D or F grades will have both the original and the repeat grade used to calculate GPA. Only those seniors recognized as Superior Scholars and Chancellor’s Scholars (see above) need to order caps and gowns for the Honors Convocation ceremonies. The Honors Convocation invitation will give appropriate instructions.

NOTE: Only University of Nebraska system grades are used to compute the GPA. A student may request the exclusion of a University of Nebraska system grade earned in a course taken prior to graduation from high school. This request for a re-calculation of the GPA must be made in writing to the University Honors Program, 118 NRC, 0659, prior to March 1. UNL, UNO, UNK, and UNMC students are considered resident students.

Grading Policies

University faculty members are expected to inform students early in the semester of course objectives, requirements, standards, and grading procedures for the particular course. In addition, they should make clear their individual policies regarding the Pass/No Pass grading option and the assignment of I (incomplete) grades. Failure of any faculty member to inform students of special restrictions in these areas could be grounds for a grade appeal case. Grade appeal procedures exist in all UNL undergraduate colleges (see Grade Apeals in individual undergraduate college sections of this bulletin).

Pass/No Pass Grading Option

The Pass/No Pass grading option was designed to enable students to take courses in areas of interest where they may feel they have had minimal preparation without adversely affecting their grade point average. Grades of P (pass) are interpreted as a grade of C or better. Neither grade P or N (no pass) contributes to the grade point average. Therefore, there are no implications on the use of this grading option. Students should see the Pass/No Pass grading option in the individual undergraduate college sections of this bulletin, see the Schedule of Classes, and talk with their academic advisers concerning the use of this option.

Grades of Incomplete

The grade I is used by an instructor at the end of a term to designate incomplete work in a course. It should be used only when students are unable to complete the requirements of the course in the term in which they are registered because of illness, military service, hardship, or death in the immediate family. Incompletes should only be given if the student has already substantially completed the major requirements of the course. For complete procedures and regulations, see the Schedule of Classes and the Summer Sessions Bulletin.

Course Repeat Policy

Only the most recent letter grade received in a given course will be used in computing a student’s cumulative grade point average. If the student has completed the course more than once and previously received a grade or grades below C in that course.

The previous grade (or grades) will not be used in computation of the cumulative grade point average, but it will remain a part of the academic record and will appear on any transcript.

A student can remove from his/her cumulative average a course grade of C-, D+, D, D- or F if the student repeats the equivalent course at the University of Nebraska and receives a grade other than P (pass), I (incomplete), N (no pass), W (withdrew), or NR (no report). If a course is no longer being offered, it is not eligible for the removal process.

For complete procedures and regulations, see the Schedule of Classes and the Summer Sessions Bulletin.

Automatic Removal of Grade Factors From Cumulative GPA For Repeated Courses

Courses graded A+ through F for the current semester are reviewed against all courses taken since the installation of the computerized records system (September, 1986) and grade factors are automatically subtracted for repeated courses originally graded C-, D+, D-, or F.

Exceptions to Automatic Grade Factor Removal Processing

Independent study courses special topics courses and variable credit hour courses will not be processed automatically. These courses will be identified to Registration and Records to check the C-, D+, D-, or F status manually. Any of these courses that qualify for removal will be processed during this revision period. The student will be notified of the change by a Grade Notification letter.

Students must complete an “Undergraduate Course Repeat Re-Computation Request” for the following situations:

1. Repeated courses which were first taken prior to the First Semester 1986-87.
2. UNMC, UNO, UNK equivalent course.
3. Late grades or grade changes after the grade census date (approximately three weeks after the end of the term).
4. Cross-listed courses (i.e., FINA/ECON 365).

Requests for course repeat(s) processing for these exception-type situations are available at, and must be submitted to Registration and Records, 107 Canfield Administration Building, approximately three weeks after the end of the term. These requests will be reflected in the official (census date) cumulative grade point average. Students not meeting this deadline will be notified of the change approximately two weeks after the request is received. Late changes will not be reflected in the official (census date) cumulative grade point average.

Academic Bankruptcy

A student may remove one or two complete semesters of work from their cumulative grade point average and degree consideration by applying to Registration and Records for academic bankruptcy. To qualify, a student must have completed each of the 15 simultaneous or sequential credit hours with a minimum 3.0 grade point average or 30 hours with a minimum 2.5 grade point average at UNL following the semester(s) the student wishes to remove.

In order to declare a semester bankrupt, all courses taken during the semester are dropped (both credit hours and grades). The bankruptcy semester is removed from consideration for cumulative grade point average purposes and the bankruptcy credit is not used for degree requirements. The semester listing of courses and grades remain evident on the academic record which is used to issue transcripts. A student may not bankrupt a semester after receiving a baccalaureate degree. College Independent Study via Extended Education and
O outreach is not included in computing qualifying grade point averages; P grades may not be used to meet bankruptcy requirements.

For complete procedures and regulations, see the Schedule of Classes.

**Advanced Placement**

In order to help students gain credit by advanced standing, the University provides opportunities for advanced placement. UNL participates in the Advanced Placement Program (AP) of the College Entrance Examination Board and the College Level Examination Program (CLEP). Students may obtain detailed information on acceptable courses from the Office of Admissions.

**Credit by Examination**

Some currently enrolled students, through outside study or relevant experience, may feel prepared to demonstrate that they have attained the knowledge and/or skills required to pass a particular UNL course. As an alternative to enrolling in the course, such students may elect to take a proficiency exam which tests mastery of the course material. If a student scores satisfactorily on the examination, the student may be awarded credit for the course. Students can obtain detailed information from the dean's office of their college.

**Changing Personal Information on University Records**

The student is responsible for notifying Registration and Records of corrections/changes in address, name, social security number, college, degree, major or advisor; the Office of Admissions for corrections/changes in residency.

**Graduation Requirements**

**UNL Policy:** Removal of High School Deficiencies (approved by UNL Dean's Council, August 29, 2006)

UNL students are expected to remove all high school deficiencies within the first 30 hours (foreign language is to be removed within 60 hours) of their work at UNL. Students will not be permitted to graduate from UNL unless they have met the requirements for removal of a high school deficiency; however, the college dean has the authority to determine the individual circumstances under which a student has met the intent of completing the high school deficiency and may graduate.

**Oversight Responsibility and Notification Process**

- In May of each academic year the Office of Registration and Records will notify students who have not made progress toward removal from their official UNL records of any high school course deficiency with which they entered a degree program at UNL. The notification will contain the UNL policy as well as a recommendation that the student meet with his/her academic adviser for assistance.
- The student's academic adviser will receive notification through a copy of the student letter to place in student's advising folder.
- The college dean will receive a listing of all students in the college who were notified as well as the number of credit hours completed by the student, the deficiency and the name of the student's assigned adviser.

**Comprehensive Education Program**

- **Program Overview**
  - UNL, as a comprehensive university, provides for a student's educational experience through its faculty, curriculum, libraries, laboratories, museums, performing art centers, athletic activities, public lectures and living community. To assist a student in logically connecting these pieces, the UNL faculty designed the Comprehensive Education Program. Unlike the specific study in a major field, which students often envision as their purpose for being at a university, the Comprehensive Education Program requires students to lay a foundation for their continued intellectual growth by developing 1) their ability and desire to analyze, evaluate and communicate complex material and positions, and 2) a context for understanding the breadth of human endeavor. Without this foundation, students may be unable to engage the complex issues which either an in-depth study in a major area requires or our society faces.
  - The Comprehensive Education Program, which is required of all undergraduate students entering UNL in fall 1995 and subsequently, encompasses four components: Information Discovery and Retrieval, Essential Studies, Integrative Studies and Co-Curricular Experience.
  - The faculty of each undergraduate college has designated specific courses for the students within their college which will satisfy the curricular components of the Comprehensive Education Program. In many instances, the faculty of the colleges have expanded the Comprehensive Education Program to meet the particular needs of their students and the discipline which they study. The four components of the Comprehensive Education Program, however, remain the same regardless of which college the student chooses and serve to connect the students' learning in general education to their learning in their major. These components are discussed in the paragraphs which follow.

**Information Discovery and Retrieval**

- The University of Nebraska-Lincoln's Love Library faculty is making available to all incoming students a 1-credit-hour course which will teach not only how to use the library system on campus but also how to do research with emerging electronic tools. Students in several UNL colleges will be required to take this course in their first year.

**Essential Studies [ES]**

- **To provide students a context for understanding the breadth of human endeavor,** Essential Studies maps out a minimum experience for an undergraduate student in a broad range of university offerings while recognizing that one or two courses in any area cannot result in mastering the knowledge of that area, a single course can familiarize a student with the representative issues in an area and a foundation for understanding the perspective that area offers. To meet the Essential Studies requirement, a student will take nine courses (generally 27 credit hours) across the following areas of knowledge:
  - **Area A—Communication:** Knowledge of and experience with writing and speaking appropriate to a broadly educated college graduate, not limited only to the technical or pragmatic demands of the student's major. (3 courses)
  - **Area B—Mathematics and Statistics:** Knowledge of essential mathematical concepts and the nature of mathematical reasoning and language, or, when appropriate, of methods of statistical analysis. (1 course)
  - **Area C—Human Behavior, Culture, and Social Organization:** Knowledge of individual and group behavior, the nature and origins of culture, the structure and governance of societies, the characteristics of economic systems, and the interaction of human activity in urban, agricultural, and industrial and the natural environment. (2 courses)
  - **Area D—Science & Technology:** Knowledge of the natural world and its interrelationship with human existence, of the aims and methods of scientific exploration, and the creation and social impact of technology. (1 course)
  - **Area E—Historical Studies:** Knowledge of the way in which history may be used to interpret the development of peoples, nations, or cultures. (1 course)
  - **Area F—The Humanities:** Knowledge of literary, philosophical, or religious efforts to interpret and illuminate human existence. (1 course)
  - **Area G—The Arts:** Knowledge of the history and creation of music, art, design, architecture, drama, dance, photography, or the communication media. (1 course)
  - **Area H—Race, Ethnicity & Gender:** Knowledge and analysis of theoretical concerns, social experiences, or creative works arising from human diversity in the United States and the world community to which it belongs. (1 course)

While a single Essential Studies course may encompass more than a single area of knowledge, it cannot simultaneously fulfill the Essential Studies requirement for two areas. A single course may be applied to only one area. With the possible exception of Area H, Race, Ethnicity and Gender, students should anticipate that...
the majority of their Essential Studies require-
ment will be completed in the lower division (100-200 level).

While Essential Studies is a requirement of the Comprehensive Education Program, colleges often extend a student's Essential Studies experience and require additional courses beyond the minimum experience required within the Comprehensive Education Program. Recognizing this, students would consult with their college adviser when planning their academic program and their Essential Studies courses. A list of Essential Studies courses is found under "Essential Studies Program List" on page 377 of this bulletin and are identified in course descriptions by the ES symbol.

Integrative Studies [IS]

Integrative Studies is a UNL experience requirement intended to engage students in actively developing their ability and desire to analyze, evaluate and communicate complex material and positions. A student will take ten courses (generally 30 credit hours) which are taught as Integrative Studies to enhance the following skills:

- **Critical Thinking** (objective and subjective), through a variety of approaches in which students investigate arguments, engage in research, gather data, perform qualitative and quantitative analysis, and assess conclusions.
- **Oral Expression** in the classroom through discussion, group and individual reports and other activities that provide students opportunities to share creative work, describe research, or explore important issues.
- **Analysis of Controversies** concerning the subject matter of the course in which students investigate concepts and hypotheses open to question.
- **Exploration of Assumptions** underlying beliefs and concepts relevant to course content and of processes for examining those assumptions, so that students understand and establish control over those ideas they bring to their study of the subject matter.
- **Inquiry Through Course Content Into the Origins, Bases and Consequences of Intellectual Bias** through which students will understand the particular perspective on the world employed in the academic discipline of the course.
- **Consideration of Human Diversity** appropriate to the subject matter of the course so that students can explore the way in which cultural differences shape conceptions about the subject matter and discern the intellectual and pragmatic effects on human groups of the subject matter and ideas related to it.

To encourage students to develop their intellectual abilities throughout their academic program, at least one course in Integrative Studies must be taken at the 200 level, one at the 300 level and one at the 400 level and no more than three courses are to be taken within a single department. Moreover, by spreading the Integrative Studies requirement to accommodate five courses in the lower division (100- and 200 level) and five courses in the upper division (300- and 400 level), students will find that Integrative Studies connects their learning in Essential Studies to learning in their major and assists them in developing a progressively more sophisticated analysis of complex problems and issues.

Any courses which meet Essential Studies or co-requisites for college requirements are taught as Integrative Studies. While the variety of courses available as Integrative Studies allows students to choose how to meet their Integrative Studies requirement, students benefit from consulting with their college adviser so that choices which enrich their academic program can be made. A list of Integrative Studies courses is found under "Integrative Studies Program List" on page 388 of this bulletin and are identified in course descriptions by the IS symbol.

Co-Curricular Experience

At the center of the university experience are the classes students take in pursuit of their undergraduate degrees. However, a student who only takes courses—e.g., if he or she works hard and learns a great deal—has missed a substantial part of what it means to be a university student. Any experienced student or graduate will say that a vital aspect of his or her education was an involved experience outside the classroom which contributed to his or her growth as an active, knowledgeable, self-aware, open-minded, and healthy individual. A university such as UNL provides students with a wealth of opportunities to grow and develop.

The co-curricular component involves opportunities for growth in these areas: personal development, health and wellness, intellectual development, cultural understanding, arts appreciation, career development, values and ethics, and social responsibility.

All entering students will receive information and assistance that will enable them to create a plan to reach established goals in each of these areas and to record their achievements for recognition.

View the "Essential Studies and Integrative Studies List of Courses" on page 377.

Transferring Credit Toward Comprehensive Education Requirements

**General Rule**

Transfer students, whether from a Nebraska post-secondary institution or any other institution of higher education, present credits for transfer evaluation. As a part of that evaluation, the faculty of the colleges determines which courses students are accepted as Integrative Studies. Generally, students transferring to the University are required to take this course unless they can demonstrate knowledge and skill in using the UNL library.

The **Essential Studies component** of the Comprehensive Education Program is knowledge-based because it is intended to familiarize students with the representative issues in a knowledge area and a foundation for understanding the perspective that area offers. Because upper division course work builds on this foundational knowledge, University students are encouraged to complete the majority of their Essential Studies during their first two years at the University. In keeping with this purpose, the transfer students will find that if the course they present for transfer credit is equivalent to a UNL Essential Studies course, the transfer credits will also meet the University's Essential Studies requirements. While the majority of University Essential Studies courses are recognized by each of the University's colleges, some colleges will not allow certain University Essential Studies courses to be applied to meet degree requirements.

The **Integrative Studies component** of the Comprehensive Education Program are courses taught in such a manner that students are actively engaged in developing their intellectual abilities, and because Integrative Studies courses are based on teaching activity and not content, courses presented for transfer credit cannot be used to satisfy this University Integrative Studies requirement. Integrative Studies is a UNL experience requirement and, as such, a certain number of these courses must be taken in residence at the University. Recognizing that students are unable to transfer this requirement, the Integrative Studies residency requirement is proportionally reduced based on the number of transfer semester hours of academic credits which are accepted toward the students' degree program up to a maximum of 66 semester hours accepted. Generally, all students graduating from a UNL college will be...
required to take a minimum of five Integrative Studies courses (i.e., 15 credit hours) in residence at UNL. To meet this minimum requirement, students are encouraged to take upper division Integrative Studies courses. At least one 300-level and one 400-level course, however, is required. This minimum requirement provides all students graduating from UNL with the opportunity to engage the UNL faculty through an interactive classroom which is meant to assist the student in developing a more sophisticated analysis of complex issues and problems.

Below is a table reflecting the proportional reduction and the general minimum Integrative Studies requirement:

<table>
<thead>
<tr>
<th>Total Successfully Transferred Credit Hours</th>
<th>Courses Taught as Integrative Studies to be Taken at UNL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 13</td>
<td>10</td>
</tr>
<tr>
<td>13-26</td>
<td>9</td>
</tr>
<tr>
<td>27-39</td>
<td>8</td>
</tr>
<tr>
<td>40-53</td>
<td>7</td>
</tr>
<tr>
<td>54-65</td>
<td>6</td>
</tr>
<tr>
<td>66 or greater</td>
<td>5</td>
</tr>
</tbody>
</table>

**Comprehensive Education Program for Students With An AA/AS Degree**

Students transferring to UNL who have earned an AA or an AS degree from a Nebraska community college and fulfilled the general education requirements of the statewide core program will be considered to have met the Essential Studies component of the University-wide Comprehensive Education Program. Undergraduate colleges within the University, however, have variable college requirements which extend beyond the Essential Studies component of the University-wide Comprehensive Education Program, and students will be required to fulfill those requirements. Additionally, students with AA or AS degrees will be required to meet the remaining requirements of the University-wide Comprehensive Education Program while in residence at UNL by taking:

- five Integrative Studies courses (e.g., 15 credit hours), and
- the Information Discovery and Retrieval component by either taking LIBR 110 or by demonstrating knowledge of and skill in using the Love Library.

In keeping with the intent of the Comprehensive Education Program, students are encouraged to take a majority of their Integrative Studies courses in the upper division. A minimum of at least one 300-level and one 400-level course, however, is required.

**AP or CLEP Credit**

Students may present for transfer credit Advanced Placement (AP) courses taken in high school for which equivalency for a UNL course has been established. If the AP course is equivalent to a UNL course which is on the list of ES courses, students may apply that credit towards fulfillment of the ES requirement in the Area (A through H) under which the course is listed. If an AP course is equivalent to a course which is listed under two Areas of Essential Studies, credit may be applied in one area only. The student may choose which area the course is counted. **NOTE:** neither AP nor CLEP credits may be applied towards the IS requirement.

**Major Academic Components**

**Undergraduate Colleges**

At the University of Nebraska-Lincoln there are eight undergraduate colleges offering programs leading to the bachelors degree. They include the College of Agricultural Sciences and Natural Resources, the College of Architecture, the College of Arts and Sciences, the College of Business Administration, the College of Education and Human Sciences, the College of Engineering, the Lied College of Fine and Performing Arts, and the College of Journalism and Mass Communications. In addition, UNL students can earn bachelor's degrees in several special programs offered on the UNL campus but administered by the University of Nebraska-Lincoln at Omaha and the University of Nebraska Medical Center. These programs are described in detail in "Programs on the UNL Campus" section of this bulletin. Bachelor degrees programs offered by the University's colleges and departments are described in detail in the sections of this bulletin devoted to each of the University's colleges.

The following section lists alphabetically the bachelor's degree programs available at the University of Nebraska-Lincoln and in parentheses identifies the college or colleges offering each program. Programs at UNL administered by UNO or UNMC are identified as "Special Programs."**

**Degree Programs**

- Accounting (Business Administration)
- Actuarial Science (Arts and Sciences, Business Administration)
- Advertising (Journalism and Mass Communications)
- Agricultural Business (Agricultural Sciences and N atural Resources, Business Administration)
- Agricultural Economics (Agricultural Sciences and N atural Resources)
- Agricultural Education (Agricultural Sciences and N atural Resources)
- Agricultural Engineering (Engineering)
- Agricultural Journalism (Agricultural Sciences and N atural Resources)
- Agronomy (Agricultural Sciences and N atural Resources)
- Animal Science (Agricultural Sciences and N atural Resources)
- Anthropology (Arts and Sciences)
- Architectural Studies (Architecture)
- Art (Fine and Performing Arts, Education and Human Sciences)
- Art History and Criticism (Fine and Performing Arts)
- Athletic Training (Education and Human Sciences)
- Biochemistry (Arts and Sciences, Agricultural Sciences and N atural Resources)
- Biological Sciences (Arts and Sciences)
- Biological Systems Engineering (Engineering, Agricultural Sciences and N atural Resources)
- Biology (Education and Human Sciences)
- Broadcasting (Journalism and Mass Communications)
- Business Administration (Business Administration)
- Business Education/Cooperative Education (Education and Human Sciences)
- Chemical Engineering (Engineering)
- Chemistry (Arts and Sciences, Education and Human Sciences)
- Child, Youth and Family Studies (Education and Human Sciences)
- Civil Engineering (Engineering) (Lincoln and Omaha)
- Classical Languages (Arts and Sciences)
- Classics and Religious Studies (Arts and Sciences)
- Communication Studies (Arts and Sciences, Education and Human Sciences)
- Computer Engineering (Engineering)
- Computer Science (Arts and Sciences, Engineering)
- Construction Management (Engineering)
- Criminal Justice (Special Program)
- Dance (Fine and Performing Arts)
- Dental Hygiene (Special Program)
- Diversified Agricultural Studies (Agricultural Sciences and N atural Resources)
- Earth Science (Education and Human Sciences)
- Economics (Arts and Sciences, Business Administration)
- Economics and History (Education and Human Sciences)
- Electrical Engineering (Engineering)
- Elementary Education (Education and Human Sciences)
- Elementary Education/Early Childhood Education (Education and Human Sciences)
- Elementary Education and M I l d M od erate Disabilities (Education and Human Sciences)
- English (Arts and Sciences, Education and Human Sciences)
- English as a Second Language (Education and Human Sciences)
- Environmental Restoration (Agricultural Sciences and N atural Resources)
- Environmental Studies (Arts and Sciences, Agricultural Sciences and N atural Resources)
- Ethnic Studies (Arts and Sciences)
- European Studies (Arts and Sciences)
- Finance (Business Administration)

1. The proportional reduction reflects both the expectation and actual experience that students take two or three courses taught as Integrative Studies during each of their years at UNL. Students who transfer in excess of 79 semester hours of academic credits which are accepted toward their degree program in the College of Agricultural Sciences and N atural Resources and the College of Arts and Sciences should see footnote #1.

2. Students graduating from the College of Engineering are required to meet a minimum residency requirement of four Integrative Studies courses (i.e., 12 credit hours) because of the slightly different structures of the Integrative Studies requirement in that College, and students in the College of Agricultural Sciences and N atural Resources should see footnote #1.

In meeting the residency requirement, the majority of colleges do not permit correspondence or similar courses to be used.
Fisheries and Wildlife (Agricultural Sciences and Natural Resources)

Food Science and Technology (Agricultural Sciences and Natural Resources)

French (Arts and Sciences, Education and Human Sciences)

Geography (Arts and Sciences)

Geography and History (Education and Human Sciences)

Geology (Arts and Sciences)

German (Arts and Sciences, Education and Human Sciences)

Grassland Ecology and Management (Agricultural Sciences and Natural Resources)

Grazing Livestock Systems (Agricultural Sciences and Natural Resources)

Great Plains Studies (Arts and Sciences)

Deaf or Hard of Hearing (Education and Human Sciences)

History (Arts and Sciences, Education and Human Sciences)

Horticulture (Agricultural Sciences and Natural Resources)

Hospitality, Restaurant, and Tourism Management (Agricultural Sciences and Natural Resources, Education and Human Sciences)

Industrial Engineering (Engineering)

Industrial Technology (Education and Human Sciences)

Insect Science (Agricultural Sciences and Natural Resources)

Integrated Studies (Arts and Sciences)

Interdisciplinary Studies (Engineering)

Interior Design (Architecture)

International Studies (Arts and Sciences)

International Business (Business Administration)

Journalism and English (Education and Human Sciences)

Journalism and English (Education and Human Sciences)

Language Arts (Education and Human Sciences)

Latin (Arts and Sciences)

Latin American Studies (Arts and Sciences)

Management (Business Administration)

Marketing (Business Administration)

Marketing Education/Basic Business (Agricultural Sciences and Natural Resources)

Mathematics (Arts and Sciences, Education and Human Sciences)

Mechanical Engineering (Engineering)

Mechanical Engineering (Engineering)

Meteorology-Climate (Arts and Sciences)

Mild/Moderate Disabilities Education and Human Sciences

Moderate Disabilities (Education and Human Sciences)

Music (Fine and Performing Arts)

Music/Business (Business Administration)

Music/Instrumental (Fine and Performing Arts)

Music/Vocal (Fine and Performing Arts)

Natural Science (Education and Human Sciences)

Natural Resources (Agricultural Sciences and Natural Resources)

Nursing (Special Program)

Nutrition and Health Sciences (Education and Human Sciences)

Philosophy (Arts and Sciences)

Physical Science (Education and Human Sciences)

Physics (Arts and Sciences, Education and Human Sciences)

Plant Biology (Agricultural Sciences and Natural Resources, Arts and Sciences)

Plant Protection Sciences (Agricultural Sciences and Natural Resources)

Political Science (Arts and Sciences, Education and Human Sciences)

Political Science and History (Education and Human Sciences)

Professional Golf Management (Agricultural Sciences and Natural Resources)

Psychology (Arts and Sciences)

Russian (Arts and Sciences, Education and Human Sciences)

Social Science (Education and Human Sciences)

Social Work (Special Program)

Sociology (Arts and Sciences)

Spanish (Arts and Sciences, Education and Human Sciences)

Special Education/Mild/Moderate Disabilities (Education and Human Sciences)

Speech and English (Education and Human Sciences)

Speech-Language Pathology and Audiology (Arts and Sciences)

Technical Education (Education and Human Sciences)

Textiles, Clothing, and Design (Education and Human Sciences)

Theatre Arts (Fine and Performing Arts)

Theatre and English (Education and Human Sciences)

Trade and Industry Education (Education and Human Sciences)

University Studies (Arts and Sciences)

Veterinary Science (Agricultural Sciences and Natural Resources)

Veterinary Technology (Agricultural Sciences and Natural Resources)

Water Science (Agricultural Sciences and Natural Resources)

Women's and Gender Studies (Arts and Sciences)

Major Academic Components/Gene 19

General Information

Nebaskan Honors

Nebaskan Honors provides students of proven ability and a distinguished high school record with a challenging academic experience in college. In small classes taught by dedicated faculty, honors students take an active role in class discussions with students of comparable talent. In a wide variety of honors courses students engage in carefully structured learning, intellectually challenging debates, and active involvement in the rich cultural activities available on campus and in the community. Nebaskan Honors offers an educational experience that extends far beyond the classroom and formal instruction.

The University Honors Program

The University Honors Program is a special program for which formal application is required. Students admitted to the Program have a 3.5 or above, and demonstrate a commitment to intellectual curiosity and academic excellence. Acceptance into the Program is based on a comprehensive evaluation of the student’s potential by the Honors Program Faculty Committee. All the undergraduate colleges support the Program, and honors courses apply to college and major requirements. A special notation is made on the transcript and diploma upon graduation from the University Honors Program to inform graduate schools and employers of the student’s superior performance. Honors Program students may request housing in the honors residence, the Nebraska Residence Center.

Students admitted to the Honors Program in their first year of college must fulfill the following requirements in order to complete the Program:

A. Full-time student: 12 credit hours each semester (fall and spring)

B. Cumulative GPA: 3.5

C. 24 credit hours in honors courses with a grade of B or better: to include 189H and 395H

D. Sequence:

First and Second Years:

• Complete 15 honors credit hours with a grade of B or better in the first four semesters with college work including 189H and 395H
Honors Program.
courses offered by participating academic departments intended to serve.

- A strong sense of management systems. Content integration and analysis, problem-solving and situational analysis.
- J. D. Edwards Honors Program
- An interdisciplinary seminar. Topics vary.

J. D. Edwards Honors Program

The J. D. Edwards Honors Program in Computer Science and Management develops leaders for a technology-driven world. Graduates will be professionals who understand the multiple levels of new information systems, and who become the technology sector's innovators, product developers, entrepreneurs, chief information officers, and C.E.O.s.

The undergraduate program is designed to give students a strong well-rounded education and to give them not only the ability to create information technology applications and solutions, but also the capacity to understand the implications of information technology for business and society. The program produces graduates with high technical proficiency as well as a strong sense of the business problems and organizational needs that information systems are intended to serve.

Students interested in learning more about the J. D. Edwards Honors Program are encouraged to call the Program at 472-6000 or visit the Program Web site at jdeuds.unl.edu.

Courses of Instruction (JDEP)

**181H. Honors Foundations of Business I (BSAD 181H) (3 cr) Lec 3, rct 1. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program and BSAD/JDEP 181H.
182H. Honors Foundations of Business II (BSAD 182H) (3 cr) Lec 3, rct 1. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program and BSAD/JDEP 181H.
184H. Honors Software Development Essentials (CSCE 184H) (4 cr) Lec 3, rct 1. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; and CSCE/JDEP 183H.
185H. Honors Foundations of Leadership (BSAD 185H) (1 cr) Lec 1. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; and CSCE/JDEP 183H.
186H. Honors Foundations of Leadership II (BSAD 186H) (3 cr) Lec 1. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; and CSCE/JDEP 185H.
187H. Honors Introductory Communication Seminar I (GEN 187H) (1 cr) Lec 1. Prereq: Good standing in the University Honors Program and admission to the J. D. Edwards Honors Program.
188H. Honors Introductory Communication Seminar II (GEN 188H) (1 cr) Lec 1. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Honors Program; and BSAD/JDEP 181H.
281H. Honors Business Systems and Operations I (BSAD 281H) (3 cr) Lec 3, rct 2. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program and BSAD/JDEP 182H.
282H. Honors Business Systems and Operations II (BSAD 282H) (3 cr) Lec 3, rct 2. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program and BSAD/JDEP 281H.
283H. Honors Foundations of Computer Science (CSCE 283H) (3 cr) Lec 3, rct 2. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; and CSCE/JDEP 184H.
284H. Honors Foundations of Computer Systems (CSCE 284H) (4 cr) Lec 3, rct 2. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; and CSCE/JDEP 283H.
285H. Honors Applications of Leadership I (BSAD 285H) (1 cr) Lec 1. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program and BSAD/JDEP 284H.
286H. Honors Applications of Leadership II (BSAD 286H) (1 cr) Lec 1. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program and BSAD/JDEP 284H.
287H. Honors Applied Communication Seminar I (JGEN 287H) (2 cr) Lec 1. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Honors Program; and GEN/JDEP 188H.
288H. Honors Applied Communication Seminar II (JGEN 288H) (2 cr) Lec 1. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Honors Program; and GEN/JDEP 287H.
301H. Honors JDEP Design Studio I (CSCE, BSAD 301H) (3 cr) Lec 3, lab. Prereq: Good standing in the University Honors Program or by invitation; admission to the J. D. Edwards Program; and BSAD/CSE/JDEP 303H.
302H. Honors JDEP Design Studio II (CSCE, BSAD 302H) (3 cr) Lec 3. Prereq: Good standing in the University Honors Program or by invitation; admission to the J. D. Edwards Program; and BSAD/CSE/JDEP 301H.
381H. Honors Fundamentals of Software Engineering I (CSCE 381H) (3 cr) Lec 3. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; and BSAD/CSCE/JDEP 384H.
382H. Honors Fundamentals of Software Engineering II (CSCE 382H) (3 cr) Lec 3. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; and BSAD/CSCE/JDEP 381H.
383H. Honors Fundamentals of Software Engineering III (CSCE 383H) (3 cr) Lec 1. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; and BSAD/CSCE/JDEP 382H.
384H. Honors Applied Numerical Analysis (CSCE 384H) (3 cr) Lec 3. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; and BSAD/CSCE/JDEP 383H.
401H. Honors JDEP Design Studio III (CSCE, BSAD 401H) (3 cr) Lec 3. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; and BSAD/CSE/JDEP 403H.
402H. Honors JDEP Design Studio IV (CSCE, BSAD 402H) (3 cr) Lec 3. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; and BSAD/CSE/JDEP 401H.

Departmental Honors

Many academic departments offer honors courses and provide high-ability students with special research opportunities. Students who do not participate in the University Honors Program may request permission to register for an honors course from the course instructor or the department office. Refer to college and
departmental listings in this bulletin for further information or contact the University Honors Program Office.

**Recognition of Outstanding Academic Achievement**

In addition to providing qualified students with opportunities to enrich their academic programs by taking honors courses, the University and its colleges recognize the academic achievements of all their talented and dedicated students.

**The Honors Convocation: University and Chancellor’s Scholars**

In April of each year, the Chancellor hosts the All-University Honors Convocation at which students who meet recognition requirements are honored as University Scholars. Special recognition is given to Chancellor’s Scholars, graduating seniors who have maintained a perfect 4.0 grade point in all their college work.

**The Dean’s List: College Scholars**

Each semester, the eight undergraduate colleges identify students who perform at a superior level academically by recording their names on the Dean’s List of the respective colleges. These College Scholars have earned at least a B+ average in a specified number of courses (the standard varies from college to college) during the semester for which they are recognized.

**Graduation with Distinction in UNL’s Undergraduate Colleges**

The colleges also praise their most successful students by recommending them for graduation with distinction, high distinction or highest distinction. While the manner of selection varies from college to college, all graduates with a level of distinction upon graduation have earned the respect of both the university community and the larger society they are about to join. Acknowledgment of such achievement is made publicly at commencement and, of course, is indicated on the student’s diploma.

For further information about N ebrask a H onors at the University of N ebraska—Lincoln contact:

Dr. Patrice Berger, Director
University Honors Program
University of N ebraska—Lincoln
118 N R C
PO Box 880659
Lincoln, NE 68588-0659
(402) 472-5425

**Study Abroad and Exchange Programs**

International Affairs offers a wide variety of overseas study opportunities to UNL undergraduate and graduate students for a semester, academic year, semester break, or summer period. With careful planning, credit earned during study abroad can be used toward degree requirements. Most programs can be arranged to complement regular degree programs. Credit earned on UNL and UNL-approved programs is considered resident credit for degree requirement purposes. In all cases, students register at UNL which means that most existing scholarships and financial aid remain in effect.

A limited number of partial scholarships reserved for participation in study abroad programs are available. The cost of study for many programs is similar to regular tuition, room and board costs at UNL. About 700 UNL students participate in study abroad each year.

The benefits of study abroad are substantial in terms of: 1) strengthening international competence in this age of global interdependence; 2) developing the ability to acquire genuine competence in a foreign language; 3) expanding the participant’s understanding of the world environment within which the U.S. business and government must operate; and 4) enhancing the participant’s prospects for employment and graduate school.

Foreign language training is not necessary for programs in English-speaking nations. UNL also offers semester and academic year programs conducted in English at several universities in Japan, Korea, the Netherlands and other countries. Frequently, there is an opportunity to learn the local language at the same time.

Many short-term group programs, all taught in English and led by UNL Faculty, are offered through the World Campus (Summer Sessions) and during the Winterim (the semester break in the winter).

Programs most actively promoted are listed below.

**ISEP Consortium.** As a member of the International Student Exchange Program (ISEP), UNL is able to place its students in over 90 universities around the world. The universities represented in ISEP include: Argentina, Australia, Austria, Brazil, Bulgaria, Canada, Chile, China, Colombia, Costa Rica, Czech Republic, Denmark, Estonia, Fiji, Finland, France, Germany, Ghana, Hungary, Iceland, Italy, Japan, Korea, Latvia, Malta, Mexico, the Netherlands, New Zealand, Nicaragua, Norway, Poland, Portugal, South Africa, Spain, Sweden, Switzerland, Thailand, United Kingdom, and Uruguay.

**Council on International Educational Exchange.** Through UNL membership in this organization, students have access to Council Study Centers worldwide as well as travel grants, work exchange and voluntary service.

**Other Consor tial Programs.** As a member of the M id A merican U niversity N etwork (MANU), UNL students have access to many overseas academic programs coordinated by U.S. partner universities in this region of the country. The cost is that paid by resident students at the institution managing the program. UNL also participates in the U.S.-Europe Exchange and is able to place its students at over 20 leading European institutions. Students interested in electrical engineering and computer science may participate in an exchange with universities in Austria, Germany and Spain (University of Cadiz, Spain). Students interested in agro-ecology may participate in an exchange with a university in Nevis, Australia. Students interested in law may participate in an exchange with universities in France.

** Affiliated Programs.** UNL is affiliated with several institutions and other providers of approved study abroad programs for summer semester or one academic year at a multitude of institutions and programs sites in other countries.

Affiliations include American International Universities (AIU), AustraLearn, Butler University’s Institute for Study Abroad and International Studies Abroad (ISA).

**Language Study Abroad.** New programs at UNL provide opportunities for foreign language study immersed in the native environment. A French language program, which can be coordinated with a language education component, is offered every spring semester in Besançon, France, under the supervision of a UNL faculty member. An intensive German language program, under the supervision of a UNL faculty member, is offered every spring semester in Berlin. A Spanish language program is offered every summer in Madrid and Cordoba, M exico, under the supervision of a UNL resident director. Spanish language programs are also offered every spring semester in Toledo, Spain, and in San Ramon, Costa Rica. Japanese language programs are offered through the All-University Honors Convocation at Peking University, China. A Russian language program is offered during the academic year or summer in St. Petersburg, Russia. Three-week intensive language programs in C armen and Caracas are taught each summer at the University of West Bohemia in Pilsen, Czech Republic.

**Australia.** Victoria University, Melbourne; University of Wollongong; Monash University, Clayton, Victoria; and Southern Cross University, Lismore. Other opportunities are available through A ustr aLearn.

**Belgium.** Program in survey research at the Katholieke Universiteit van Brussel.

**Brazil.** Federal University of Piauí, Federal University of Ceará, Federal University of Santa Catarina, State University of C aninhas.

**China.** Peking (Beijing) University, Beijing. A summer program in engineering, taught in English, is offered in X i’an.

**Costa Rica.** University of Costa Rica, San Ramón.

**Czech Republic.** Spring semester in the Czech Republic. Eastern European Studies taught in English at Palacky University (Olomouc). Eleven-week program from late March through early June. Language studies at the University of West Bohemia (Pilsen).

**Denmark.** Denmark’s International Study Program, Copenhagen. Programs in English in general studies, environmental studies, international business, and architecture. A study program in wine production is available at the Danish Agricultural College.

**England and Scotland.** See United Kingdom.

**France.** M inimum two years college French required for programs at the Universities of Franche-Comté (Besançon), H aute Bretagne (Rennes) and the School of Architecture at C lermont-Ferrand. Summer program in agricultural economics taught in English at Dijon at the National Institute of Agricultural and Agronomic University of Dijon (ENESA). A business program is offered at the École Superieure de
<table>
<thead>
<tr>
<th>Country</th>
<th>Program Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ireland</td>
<td>A program in architecture at the Dublin Institute of Technology.</td>
</tr>
<tr>
<td>Greece</td>
<td>An academic year program is offered through College Year in Athens.</td>
</tr>
<tr>
<td>Germany</td>
<td>All programs in German. Intensive language program at Deutsch Institute, first (fall) semester. Sapporo University; Senshu University (Tokyo); Nanzan University (Nagoya); Dublin Institute of Technology. Summer program in engineering, taught in Commerce et de Management in Poitiers. A spring semester program is offered at the University of Deusto for those with three or more semesters Spanish.</td>
</tr>
<tr>
<td>Mexico</td>
<td>Programs include summer and semester at La Universidad de Salamanca, Madrid, Barcelona, Grenada, Alicante, Valencia, Sevilla, and Baja. Programs in intensive Spanish language, university courses require two years of college Spanish.</td>
</tr>
<tr>
<td>Netherlands</td>
<td>The University of Amsterdam offers UNL students a special program in European Studies, and an advanced program in the social sciences as well as a full array of other possibilities, including Dutch language study.</td>
</tr>
<tr>
<td>Norway</td>
<td>The Norwegian University of Life Sciences (UMB in As).</td>
</tr>
<tr>
<td>Poland</td>
<td>Semester and year programs are offered at Maria Curie-Skłodowska University in Lublin and at the University of Wroclaw.</td>
</tr>
<tr>
<td>Russia</td>
<td>The University of N. S. Lomonosov offers UNL summer programs in political science, sociology, and psychology.</td>
</tr>
<tr>
<td>Spain</td>
<td>University of Alicante, for those with one to two semesters Spanish; Fundacion O. de la Garza (Toledo) and Seville programs, for those with three or more semesters Spanish. Summer programs at the University of Deusto (Bilbao). A spring semester program is offered at the University of Salamanca, Castilla-La Mancha in Toledo. Language programs are available at universities in Valencia, Madrid, Barcelona, Grenada, Alicante, Valencia, Sevilla, and Baja. Programs include summer and semester at the University of N. S. Lomonosov.</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>University of Lancaster (England) and Aberdeen (Scotland), Queen Margaret (Edinburgh, Scotland), and Kingston (England), Mathematics exchange with University of Bath (England). Program at the Center for Mediterranean Studies, University of Oxford, England. Spring architecture semester in London. Information on these and other study abroad programs, as well as information on traveling and living abroad, is available in the International Affairs Resource Center, 420 University Terrace. For more information contact: Study Abroad, University of Nebraska-Lincoln International Affairs, 420 University Terrace, PO Box 880682, Lincoln, NE 68588-0682 (402) 472-5358.</td>
</tr>
<tr>
<td>POST</td>
<td>University of Nebraska-Lincoln has a diversity of educational opportunities, from bachelors to doctoral degrees. Graduate Majors include the following: Agriculture–BS, MS, PhD; Animal Science–BS, MS, PhD; Animal Science–BS, MS, PhD; Anthropology–BS; Architecture–BS; Art–BS; Biochemistry–BS, PhD; Biological Sciences–BS, MS, PhD; Business Administration–BS, MS, PhD; Chemistry–BS, MS, PhD; Civil Engineering–BS, MS, PhD; Computer Science–BS, MS, PhD; Education–BA, BS, MA, MS, PhD; Economics–BS, MS, PhD; Educational Specialist Degree. For more information, refer to the dual program descriptions in the Graduate Studies Bulletin.</td>
</tr>
<tr>
<td>POST</td>
<td>Doctoral Programs: The University of Nebraska-Lincoln offers 39 programs leading to the degrees of doctor of philosophy (PhD), doctor of education (EdD), and doctor of musical arts (DMA). Educational Specialist Degree: The educational specialist degree (EdS) is designed for persons who wish to achieve, by planned program of graduate study, proficiency beyond the level of the masters degree but who do not necessarily plan to complete the doctor of philosophy or doctor of education degrees. This advanced degree can be earned in three departments or topical areas within education. Masters Programs: Graduate programs leading to the masters degree are offered by most departments and schools at University of Nebraska-Lincoln. Presently, 73 masters programs exist under 15 separate degree titles. Following is a list of masters degrees granted at University of Nebraska-Lincoln.</td>
</tr>
</tbody>
</table>
Admission to the Graduate College

The Graduate College is open to graduates of all colleges of this university and to graduates of other universities and colleges of recognized standing whose requirements for graduation are substantially the same as those in the corresponding colleges of this university. Students are selected on the basis of academic preparation, ability, and the availability of space in the desired academic program, and without regard to race, color, sex, religion, national origin, marital status, sexual orientation, disability, or age.

Acceptance for admission to a program leading to a master's degree, a doctoral degree, or an educational specialist degree or certificate is determined by the graduate committee within the academic unit and the Dean of Graduate Studies. This decision is based upon the applicant's record, experience, personal qualifications, and proposed area of study. The department or area graduate committees make recommendations on all degree applications, but the final admission decisions are not appealable.

The Graduate Studies Bulletin contains complete information about graduate studies including: programs, registration, requirements for degrees, and courses of instruction. A copy of the bulletin is available by sending a check or money order for $5.00 to:

University of Nebraska Medical Center Graduate Studies Bulletin
PO Box 880524
Lincoln, NE 68588-0524

Undergraduate students who intend to continue their education after graduation from UNL are encouraged to apply online at www.unl.edu/gradstudies.

Admission of UNL Seniors

Seniors at UNL needing not more than 9 undergraduate credit hours to complete the bachelors degree and wishing to register for graduate courses may be granted admission to a Graduate College degree program on a provisional basis subject to receiving their baccalaureate within one calendar year. They must file an application for admission to Graduate Studies and, if admitted, their registration may count as residence in the Graduate College.

Graduate Courses Taken by UNL Seniors

UNL seniors who have obtained in advance the approval of the Dean of the College of Graduate Studies may enroll in up to 12 hours credit for graduate courses taken in addition to the courses necessary to complete their undergraduate work, provided that such credits are earned within the calendar year prior to receipt of the baccalaureate.

Course work taken prior to receipt of the baccalaureate may not always be accepted for transfer to other institutions as graduate work. Seniors in the University Honors Program are encouraged to consider taking 400-level courses at the 800 level with the concurrence of their advisor and permission of the instructor and Dean of Graduate Studies.

Please contact the Office of Graduate Studies, 1100 Seaton Hall, prior to registering for graduate course work. Completion of a Head for Graduate Credit form is required.

Ronald E. McNair Program

The M.C.N. air Scholars Program is a federally funded program designed to prepare selected UNL undergraduates for study at the doctoral level. Full-time students at UNL who are first-generation with a maximum income level established by the U.S. Department of Education, or a member of a group underrepresented in graduate education, and who have completed at least 60 credit hours with a cumulative GPA of 3.0 or above, are eligible to apply. The selection process is competitive and based on the applicant's collegiate grade point average, faculty recommendations, and personal statement.

The benefits of being a M.C.N. air Scholar include research experience under the guidance of a faculty mentor, a research stipend, interactive seminars focusing on aspects of graduate school, tutoring, computer laptop loan, graduate tuition fee waiver, and opportunities to present at national conferences.

The M.C.N. air Scholars Program requires a two-year commitment during the academic year. Seminars are directed at developing important research skills and on preparing scholars to apply for graduate school. First-year scholars also participate in the M.C.N. air Summer Research Experience, an intensive ten-week program during which the scholars conduct research 25-30 hours per week, participate in seminars, and enjoy cultural events.

Details on the program can be found at www.unl.edu/mcnaire by calling the program office at (402) 472-5062, or by stopping in at the Office of Graduate Studies, 1100 Seaton Hall.

College of Law

The University of Nebraska College of Law offers an educational program designed to provide its students with the intellectual and practical skills necessary to meet the diverse and complex challenges of a legal career. Located on East Campus, the College has a rich tradition of excellence in moot court, client counseling and writing, and offers an educational program designed to provide its students with the intellectual and practical skills necessary to meet the diverse and complex challenges of a legal career.

The College is committed to supporting extracurricular activities that permit students to express and expand their talents. Our students have won national awards for their excellence in moot court, client counseling, and other activities.

Under special circumstances, students can enter the College after three years of undergraduate school. For further information about the College and its programs, see the College of Law web site, http://law.unl.edu, or contact Assistant Dean Sarah Gloden in the College of Law Admissions Office at (402) 472-2161.
Summer Sessions

UNL’s Summer Sessions is a great way to begin, continue, or advance one’s education through more than 1,400 courses offered by 70 departments. It provides options and flexibility by offering courses in a three-week pre-session, an eight week session, and two five-week sessions.

During the summer, a wide range of students will be on campus—current UNL students, new first-year students, transfer students, visiting students, high school students. Students take summer courses to meet entrance requirements, to shorten the time to graduation, to lighten the course load required in other terms, to concentrate on areas of study that need full-time attention, and to overcome academic deficiencies.

Although Summer Sessions maintains the same high standards of quality education as the regular academic year, it does tend to be less formal, with smaller classes and more accessible instructors. For information about course offerings or enrolling during Summer Sessions contact: Summer Sessions Office, University of Nebraska-Lincoln, 208 Canfield Administration Building, PO Box 880421, Lincoln, NE 68588-0421, (402) 472-3567, (800) 562-1035 (toll-free), www.unl.edu/summer

Extended Education and Outreach

Extended Education and Outreach assists academic units in offering a variety of courses and degree programs that can be taken at any time and/or any place. Courses are offered in one or a combination of formats including online, video, print, audio, e-mail and the traditional classroom setting. This flexibility in format and scheduling offers students the convenience of taking courses at a time and place that fits their needs. Programs and courses include:

College Independent Study

College Independent Study (CIS) courses are designed for students who want to supplement their on-campus course schedule with self-paced, independent study courses. Any students take CIS courses to ease scheduling problems, take a course that is closed on campus, take classes while away from campus and/or fulfill graduation requirements. Most courses are available online. Visit independentstudies.unl.edu or call (402) 472-2175 for a full course listing or for information on how to register.

Summer Reading Courses

Summer Reading Courses allow students to earn credit in a variety of subjects while traveling, working or participating in other activities throughout the summer. Students meet with instructors in the spring, study during the summer and meet with instructors again in the fall. Visit extended.unl.edu/summer or call (402) 472-2175 for a full course listing or for information on how to register.

Graduate Distance Education Programs

A wide variety of graduate programs are offered at a distance to students throughout Nebraska and around the world. Following is a list of UNL programs offered at a distance:

- Master’s Degrees
  - Agriculture
  - Architecture, Interior Design
  - Business Administration
  - Child, Youth and Family Studies
  - Educational Administration
  - Engineering, Engineering Management
  - Entomology
  - Journalism and Mass Communications
  - Special Education
  - Teaching, Learning and Teacher Education
  - Textiles, Clothing and Design
  - Textile History or Quilt Studies
  - Education Specialist Degrees and Endorsements
  - Special Education
  - Behavioral Disorders
  - Deaf Education
  - Early Childhood
  - Severe Disabilities
  - Special Education Administration (EdS only)
  - Visual Impairment

- Doctoral Degrees
  - Educational Studies (EdD, PhD)
  - Educational Administration, UNL-UNO Joint Program (EdD)

- Certificate Programs
  - Educational Technology
  - Family Financial Planning
  - Mait Culinology® (UNL Graduate)
  - School Improvement Specialist Program
  - Youth Development

Visit extended.unl.edu or call (402) 472-5515 for more information.

Advanced Scholars

This unique program allows Nebraska high school students to take online college-level courses from the University of Nebraska-Lincoln at significantly reduced tuition. Students have the opportunity to stay challenged throughout high school, get a head start on college credits and build skills to ease their transition to freshman year.

The program also allows Nebraska high schools the opportunity to partner with the University of Nebraska-Lincoln to offer an extensive curriculum, no matter their size. Learn more about Advanced Scholars at http://AdvancedScholars.unl.edu.

O other Extended Education Programs

Extended Education and Outreach also administers the UNL Independent Study High School, which offers more than 160 online and print courses for grades 9-12. Call (402) 472-2175 or visit NebraskaHS.unl.edu for more information.

International Affairs

UNL and International Affairs are committed to fostering respect for different cultural perspectives and increasing international competence. Our mission is to promote excellence in the international aspects of academic, research, service and outreach programs for UNL and all Nebraskans. International Affairs initiates, coordinates and provides support for international educational programs, faculty development, research and scholarship, service and extension for the University. International Affairs provides these services to all Nebraska schools, businesses and communities. It represents the University in multi-institutional associations, national and international organizations and agencies, and binational and multinational undertakings related to teaching, research, and public service.

International Affairs includes academic and service units. International Affairs also interfaces with other campuses of the University of Nebraska.

International Affairs promotes and facilitates study, research, and teaching abroad by UNL students and faculty. To this end, it offers undergraduate and graduate students study abroad opportunities for a semester, academic year, or summer session. About 700 UNL students study abroad every year. The office sponsors the Fulbright Program for students and faculty and assists faculty in the preparation of grants and contracts that involve study abroad and international cooperation. For more information, see “Study Abroad and Exchange Programs” on page 21 of this bulletin.

International Affairs provides services and programs to UNL students, faculty, and staff members in more than 1,400 courses offered by 70 departments. About 300 visit scholars from more than 100 countries enrolled at the University. The office also assists about 300 visiting scholars from around the world. International Affairs helps to negotiate and draft such agreements and memoranda of understanding and serves as the repository for the signed documents. It also helps faculty members to network with others who may have academic interests or collaborations with the same institutions or in the same country.

International Affairs is also responsible for faculty exchange programs sponsored by UNL, and serves as an advocate for international education in curricular affairs, such as the Global Classroom. This project links students, face to face in real time, with students from other countries.

It also sponsors conferences with international themes, brings distinguished international speakers to the campus and serves as host for many visiting international guests.

The International Affairs library and resource center offers UNL faculty, staff and students information about working, traveling, or performing voluntary service in another country. International Affairs also provides travel-related services to students and faculty going abroad and coordinates short-term study abroad programs through which UNL professors offer semester programs and credit and noncredit courses in foreign countries during the winter break and summer.

For additional information on any of the above programs or services contact:
International Affairs
University of Nebraska–Lincoln
420 N University Terrace
PO Box 88062
Lincoln, NE 68588-0628
(402) 472-5358
iaffairs@unl.edu
www.unl.edu/iaffairs

Student Services

Admissions
Students who are interested in attending the University of Nebraska—Lincoln are encouraged to visit the campus. Information sessions, campus tours, and visits to academic departments can be arranged Monday through Friday at 9:00 a.m. and 1:00 p.m. Information about admissions, housing, financial aid, scholarships, academic programs, student life, and other areas typically of interest to prospective students is available from the Office of Admissions. To make arrangements for a visit or to obtain information about the University of Nebraska—Lincoln, contact:
Van Brunt Visitor Center—Office of Admissions
University of Nebraska—Lincoln
313 N 13th Street
PO Box 880256
Lincoln, NE 68588-0256
(402) 472-4887
(800) 742-8800, ext. 4887 (toll-free)
http://admissions.unl.edu

Campus Recreation Centers

Campus Recreation Centers provide students, faculty, and staff with a variety of recreational facilities and programs. Inside the Campus Recreation Center, students are able to pursue their fitness and sports goals with weight training and conditioning equipment, fitness/aerobics classes, multi-purpose sport courts, swimming pool, indoor climbing wall, running track, indoor turf field, and spa facilities. Additionally, students have access to the Nebraska Union and on-line at www.unl.edu/iaffairs.

- Injury Prevention & Care
- Massage Therapy
- Youth Activities

Students enrolled at the University are automatically members of Campus Recreation and membership options are available for faculty, staff, spouses, and dependents. For information, visit the Campus Recreation Center (402) 472-3467, East Campus Activities Building (402) 472-2479, or online at www.unl.edu/crec.

Career Services

Career Services, 230 Nebraska Union (472-3145) is a centralized, comprehensive career center for students, alumni, faculty, and employers. Through career counseling and career exploration services, students and alumni develop career decision-making and job-search skills and strategies. Working with academic advisors, Career Services offers students self-knowledge and employment options to prepare for the workforce and graduate or professional school. Career Services maintains an extensive website with information and resources at www.unl.edu/careers.

Career Decisions
Career Services provides personal assistance to students undecided about a major or career. Students can visit with a career counselor regarding interests and skills, take a career assessment, and access career information and resources in the Career Resource Center, 225 Nebraska Union, or on-line at www.unl.edu/careers.

Career Employment and Internships
Career Services helps students gain experience through part-time jobs and internships. A wide variety of part-time jobs both on and off campus are listed on-line at www.unl.edu/careers/seic and on the student job board, 2nd Floor Nebraska Union. Career Services staff help students identify and pursue internship opportunities related to their career goals. A variety of directories are available in print at 225 Nebraska Union and on-line at www.unl.edu/careers as well as Husker Hire Link, a free on-line job search service connecting students to employers.

Job Seeking Services
Career Services helps students prepare for and conduct successful job searches. Career counselors review resumes and cover letters, conduct mock interviews, and provide advice and information about accepting, declining, and negotiating job offers. Husker Hire Link, a free on-line job search service connects students with employers seeking internships and full-time employees. Students can post resumes, search and apply for jobs, and conduct campus interviews. Several career fairs are also held throughout the year. More information and a variety of resources are available on-line at www.unl.edu/careers.

Career Resource Center
The Career Resource Center is staffed full-time by resource specialists who can direct students to print and on-line resources related to careers, employers, jobs and internships or

Counseling and Psychological Services (CAPS)

Counseling, psychotherapy, psychiatric services, and psychological evaluation are available in CAPS at the University Health Center, room 213. The professional staff offers confidential counseling for students across a wide spectrum of issues including personal/academic concerns, anxiety and depression, life planning, diversity issues, relationships, eating disorders, sexual identity, communication skills, and stress management/biofeedback. Workshops and support groups are offered throughout the year in these and other areas. Assessment for ADD and learning disabilities is also offered. A full range of psychiatric services is available within CAPS, including assessment, medication, and follow-up.

Daily Nebraska

The Daily Nebraska, a national prize-winning student newspaper, is the premier student voice on the University of Nebraska—Lincoln campus. The Daily Nebraska is staffed by students in reporting, editing, photography, and art and graphic design, page design, multimedia, and advertising sales positions. The governance of the state's largest newspaper is delegated by the NU Board of Regents to the Publications Board, a group consisting of students, faculty members, and professional journalists. Any student is eligible to apply for a position on the Daily Nebraska staff, which changes each semester. All employees are compensated for their work in the form of salary and experience.

For additional information, contact:
Daily Nebraska
20 Nebraska Union
1400 R Street
Lincoln, NE 68588-0448
dn@unl.edu
DailyNebraska.com

International Student and Scholar Services

The University of Nebraska—Lincoln is host to more than 1,500 international students and scholars and their dependents from around the world. These students and scholars represent more than 100 countries.

International Student and Scholar Services assists these students and scholars with cultural, immigration, financial, and personal issues and provides activities and programming such as the Conversation Partner Program, which matches international students with U.S. students. In addition, international student organizations at UNL, representing all areas of the world, work with the International Student and Scholar Services to provide events such as ethnic festivals and the International Food Bazaar.

International Student and Scholar Services works to enhance the academic experience of international students and scholars at the University of Nebraska—Lincoln and to provide opportunities for the campus, city and state to benefit from their presence on campus.
For additional information, contact:
Office of International Affairs
International Student and Scholar Services
University of Nebraska-Lincoln
420 U Holiday Terrace
Lincoln, NE 68588-0682
(402) 472-5358
iss@unl.edu
www.unl.edu/iss

Office of TRIO Programs

Student Support Services (SSS). To help students fulfill their academic potential, the Office of TRIO Programs sponsors the SSS Program. The SSS program offers academic support in the form of tutoring, counseling, study skills instruction, personalized courses, and financial planning services. To qualify for these services, students must demonstrate an educational need and qualify as either (1) low-income, (2) first-generation (neither parent has a four-year college degree), or (3) disabled. Students at UNL who are US citizens or permanent residents are eligible to apply to the SSS program. Applications are available at the SSS office.

The SSS Program offers several courses for credit each semester to help students develop their educational skills. These courses include small-group sections of BIS 101 (general biology), ENGL 150 and 151 (written composition courses), EDP 510 (a career course), EDP 327 (a human relations course), and MATH 160A and 160B (slower-paced sections of intermediate and college algebra).

In addition to the SSS course offerings, the program provides individual and group tutoring in all subjects and the opportunity for students to work together in study groups in a tutoring lab in the SSS office. Counseling is available for cultural, personal, financial, and career concerns. The program also provides peer mentoring and helps students develop leadership skills and become involved in organizations and cultural activities on campus.

Upward Bound Project (UB). The Upward Bound Project provides opportunities for low-income, first-generation high school students to succeed in pre-college performance, and ultimately, higher education pursuits. The goal of the program is to help students recognize and develop their potential to enroll and graduate from institutions of post-secondary education. U B is a year-round program that offers services during the academic year and in a six-week summer residential program. The academic year services are set up to support, motivate, and encourage each student's educational achievement. The six-week summer residential program offers instruction in high school core courses that prepares the participants for the pursuit of post-secondary education. Tutors and mentors are employed to provide positive reinforcement and academic assistance.

Upward Bound Math/Science (UBMS). The Upward Bound Math/Science Project provides fundamental support services to low-income and/or first generation students in their preparation for college entrance. The project provides opportunities for participants to succeed in pre-college performance, and ultimately, higher education pursuits in math and science through such services as additional instructional and tutoring services, leadership and shadowing programs, help in preparing for college entrance exams, finding scholarships and financial aid, and career and college choice research, and many other opportunities. A six-week live-in summer program at the University of Nebraska-Lincoln is provided to stimulate a college-going experience. UBMS is designed to prepare high school students who have the aptitude and motivation to enter a post-secondary program that will lead to a career in math or science. Contact the UBMS Project office at 472-8887 for any additional information.

Nebroisk Unions

The Nebraska Unions on City and East campuses are full-service community centers designed for use by everyone at UNL - students, faculty, staff, alumni, and visitors. The unions are financed from student fees, University subsidies, and income generated through various service enterprises. The Nebraska Union on City Campus offers student and television lounges, offices for student organizations, meeting rooms, dining areas with complete food services (including banquet catering and food preparation), bank, game room, bookstore, copy services, 24-hour computer lab, and the student employment and Career Services offices.

The Nebraska East Union on East Campus offers similar services to those available in the Nebraska Union on City Campus including an expanded game room and bowling alley.

Services for Students with Disabilities

T he Services for Students with Disabilities office, 132 Canfield Administration Building, provides test accommodations, note-takers, taped text books, e-text captioning services, interpreters, braille materials, assistance with accessible classroom identification, housing issues and other needed accommodations. These services are offered to facilitate the integration of students with disabilities into the mainstream of University academic life. Special parking arrangements may be made directly through Parking Services.

Qualifying students are encouraged to contact the Services for Students with Disabilities office before arriving on campus so their special needs can be anticipated, discussed, and appropriate arrangements made. Students can call (402) 472-5767.

Student Government

By virtue of enrolling in the University, students are members of UNL’s student government organization, the Association of Students of the University of Nebraska (ASUN). Elections for major officers and ASUN senators are held each spring. The elected president serves as a member of the University of Nebraska Board of Regents. ASUN functions as the primary representative body for UNL students. ASUN takes student concerns to faculty, boards, and committees and supports the Board of Regents, state legislative groups, and the people of Nebraska.

Much of ASUN’s work is conducted by committees and commissions open to any interested UNL students. ASUN is also the vehicle for appointing students to various University committees and advisory boards. The ASU N office is located on the 3rd floor of Nebraska Union. For more information, refer to their Web site at www.unl.edu/asun.

ASUN Student Legal Services Center

ASUN Student Legal Services Center, a prelegal legal advising, counseling, and limited litigation service funded by student fees. The Center is staffed by two full-time attorneys who are available to assist currently enrolled students. The service is free of charge; all discussions and files are confidential and are not a part of any University record.

The Center is a limited legal program and does not handle all types of legal cases. Its philosophy is to provide legal help for the greatest possible number of students within the limited time and resources available. The types of cases in which the attorney may represent students include those most often affecting students, such as landlord-tenant relations, consumer complaints, traffic offenses, and assistance in small claims cases. The Center is located in 335 Nebraska Union, (402) 472-3350.

ASUN NU On Wheels

ASUN NU On Wheels. Student government sponsors the NU On Wheels program. The mission of NU On Wheels is to save lives and prevent injuries by offering students a safe alternative to driving drunk and other threatening situations. For a safe ride home, NU On Wheels operates during the hours of 7:00 p.m. to 7:00 a.m. seven days a week during the Fall and Spring semesters, excluding breaks when the University is closed.

Off Campus Housing

Student government provides information about housing available to students. See our Web site at www.unl.edu/asun and click on Commuter and Student Services or stop by the office at 136 Nebraska Union, City Campus or call 472-2652.

Student Involvement

As an essential partner in the educational experience, Student Involvement provides co-curricular opportunities that complete the academic process, foster student development and prepare all students for life beyond the University. Offices are located at 200 Nebraska Union and 300 Nebraska East Union. Information about programs and services is also available on our Web site at www.unl.edu/involve.

E-Involved

E-Involved is an on-line service to help students locate the 400 recognized student organizations (ROS) at the university. Students can search a database of ROS based on their interests, can submit contact information from other ROS officers and can obtain information about student organizations on campus. From our website, simply click “Find a Student Organization.”

Gender Related Programs

The Women’s Center, located at 340 Nebraska Union, offers a resource library and educational programming concerned with the changing roles of women and men in today’s society. The Women’s Center provides ongoing discussions and support groups organized to meet the needs of diverse groups of students.
GLBT and Ally Programs and Services. A "safe space" for Gay, Lesbian, Bisexual, Transgender and Ally students, that provides relevant resources and referral services. "Safe Space" educational training for the university community, supports and provides follow-up services to those who have experienced discrimination/ harassment based on sexual orientation/gender identity/expression and serves as a resource for the Q user. Student Ombuds is encouraged (the GLBT and Ally student organization).

Leadership Development. The Leadership Development program coordinates several initiatives designed to develop and/or enhance leadership skills among students, including but not limited to Emerging Leaders' Leadership Class, Leadership Team, and intensive leadership retreats.

Student Ombuds Services. Student Ombuds Services is a service for students for the purpose of hearing, investigating, and advising on issues arising from personal problems to matters of policy and procedure. Student Ombuds Services is located in the Office of the Director of Student Affairs, 106 Canfield Administration Building, (402) 472-3755.

University Health Center. The University Health Center provides quality, convenient and affordable health care in support of personal wellness and the prevention of illness and injury to UNL students. Located at 15th and U Streets, students have access to: primary care medical clinic; specialty evaluations; allergy injections; dermatology; immunization and international travel; optometry; laboratory; pharmacy; physical therapy; radiology; health education; counseling and psychology services; and dental clinic. There is also a satellite clinic located in the East Campus Union, room 316.

Student Ombuds Services is a service for students for the purpose of hearing, investigating, and advising on issues arising from personal problems to matters of policy and procedure. Student Ombuds Services is located in the Office of the Director of Student Affairs, 106 Canfield Administration Building, (402) 472-3755.

Students registered for seven or more hours during fall and spring semesters (four or more hours during summer sessions) are automatically assessed a facility fee which permits unlimited visits with primary care providers at no additional charge. Students enrolled in fewer than seven hours (fewer than four hours during summer sessions) may elect to pay the facility fee or be seen at the UHC on a fee-for-service basis. All lab tests, x-rays, physical therapy and pharmacy products carry charges that are reduced for students who have paid the facility fee.

All new and re-entering students are required by the University to submit proof of immunity to measles (rubeola) prior to their first enrollment. In addition, international students are required to have a tuberculin (PPD) test done at the UHC when they arrive on campus. If your PPD test is positive or if you have a history of positive PPD, you will be required to have an x-ray at the UHC and see a UHC physician. Rubeola immunization and tuberculin testing are available for a fee at the UHC.

All UNL students are encouraged to carry health insurance to help cover the costs of unanticipated medical care. Students are advised to check their health insurance policies prior to enrollment to ensure that adequate health care benefits are available in the Lincoln area during their attendance. The University Health Center is the health care provider for UNL students and dependents is available through the UHC for those who wish to obtain or increase their health insurance coverage. For information about the student health insurance plan or the participation status of UHC providers in managed care plans, please call the UHC Patient Services at (402) 472-7435.

University Housing. The University's housing options reflect UNL's diversity. Students can choose to live in traditional residence halls, apartment-style residence halls, fraternities and sororities, or cooperatives. Single students, under the age of 19 on the first day of classes fall semester, must live on campus, or within 30 miles of campus with an adult relative (parental permission required).

Traditional Residence Halls. All traditional residence hall contracts include full-service dining with a choice of either a 7-days-a-week or 5-days-a-week "unlimited access" meal plan. The "unlimited access" meal plan provides access to dining services as many times a day as the student wishes. The dining service is open. Some dining service facilities include market-style dining, display cooking, and continuous serving hours, until 8:30 p.m. daily. All halls also offer areas for recreation, laundry, social lounges, a computer lab within the complex, and front desk service. Most halls are coeducational, and offer mostly double and "super double" resident rooms. Single rooms are available in two residence halls designated for upperclass student occupancy. Resident rooms are fully-furnished and include the following: a refrigerator/freezer or microwave, a study desk and chair, a dresser and a closet. Rooms include Internet access for each student, local phone service, and cable TV hookup at no additional charge to the student. Some halls include a handicapped adjustable bed as part of the cost of the room; in other halls, students may rent a loft bed if they wish.

The University's residence halls also offer students several special programs that enrich living and academic experiences at UNL. These opportunities currently include residence halls specifically for upperclass students and special "Learning Community" floors for freshmen students in programs such as business, engineering, music and journalism. Students can apply for these and other optional living arrangements by indicating their preference on their housing contract.

Two residence halls, Selleck and Fedde (on East Campus), provide two options: one is for graduate students only, offering 12-month occupancy, which includes summers and holidays. In addition, some residence halls are open during the academic year vacation periods at Thanksgiving, winter break and spring break. Students should apply for housing in residence halls as soon as possible after receiving their housing contract, in order to have the best chance of being assigned to their preferred residence hall. For new freshmen, housing contracts are sent within two weeks after the student has submitted his/her enrollment.
deposit. New transfer students will receive a housing packet within four-to-six weeks after being admitted.

**Apartment-Style Halls**

U. niversity Housing offers upperclass or graduate students the opportunity to live in one of its two apartment-style halls, The Courtyards or the Village. Both apartment-style halls feature two-bedroom/one bath and four-bedroom/two bath units. Suites include kitchens with all appliances (stove/oven, refrigerator/freezer with icemaker, dishwashers and microwave). Each suite includes a living room with a sofa, chair, entertainment center table and end table. Most units include a large walk-in style storage closet and large entry-way coat closet. Some units feature a balcony, French balcony or patio (first floor units). Each student has a private bedroom furnished with a loftable/adjustable bed, desk, dresser, adjustable-height desk chair, and closet. All utilities are included, along with high-speed Internet access and Cable TV access in each student room. Bathrooms are cleaned by residence hall staff every other week. Each floor includes laundry areas, social lounges and study lounges, and both halls include front desk service. Nine and 12-month contracts are available. Apartment-style contracts include two meals a week at one of the Housing dining services, and students have the option to purchase a full meal plan at a 10% discount.

For information contact:
Division of University Housing
University of Nebraska-Lincoln
PO Box 880622
Lincoln, NE 68588-0622
(402) 472-3561
(housing@unl.edu)
www.unl.edu/housing

**Family Housing**

The University operates 153 unfinished one-, two-, and three-bedroom apartments for married people and single parents registered as full-time students. Since there may be a waiting period, students may apply for this housing alternative prior to their marriages. For information, contact:
Division of University Housing
University of Nebraska-Lincoln
PO Box 880622
Lincoln, NE 68588-0622
(402) 472-3561
(800) 742-8800 (toll-free)

**Other Approved Off-campus Housing**

Love Hall, located on UNL's East Campus, is a cooperative for women students. Students can enjoy academic-year housing and meals at about half the cost of the residence halls. Husker Hall is a living unit located between UNL's City East Campuses. Year-round housing is available for graduate students in single rooms, and nontraditional students. A kitchen area is available for student use.

**Off-campus Housing**

Many of the University's students live in off-campus housing throughout the Lincoln area. The city has an abundance of apartments, students usually do not have difficulty finding off-campus housing in their price range—especially if they make arrangements before arriving in Lincoln for the start of the semester.

To live off campus, single students must be 19 years of age on the first day of classes, Fall semester, or live with an adult relative and have parental permission.

**Resources and Facilities**

The University of Nebraska-Lincoln Alumni Association demonstrates a long-standing commitment to the University and its community. Today, membership exceeds 32,000 alumni and friends. The Association sponsors a wide variety of programs and services to meet the diverse needs of Nebraska alumni. The Association produces several publications to keep alumni informed of university issues and events and alumni events and services. The Association connects alumni and friends of the University while promoting the University's academic research and service roles. It is a separate entity from the University's Alumni Association, which promotes and provides services to meet the diverse needs of Nebraska alumni. The Association produces several publications to keep alumni informed of university issues and events and alumni events and services.

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**Centers for the Performing Arts**

**Kimball Recital Hall**

Kimball Recital Hall, on the University's City Campus at 11th & R Streets, serves as the home for UNL School of Music's Concerts and Recitals by faculty, students and guest artists. Kimball Recital Hall is acoustically outstanding, and with only 850 seats, is one of the finest concert halls in the Midwest. It is located adjacent to Westbrook M usic Building, home of the UNL School of Music. Performances include the Faculty Recital Series and other faculty performances, including recitals and chamber music ensembles. Student performances include the UNL Orchestra, Wind Ensemble, Concert Band, University Singers and Jazz Ensemble among others. The School of Music's Opera Program offers a repertoire of operas. Kimball Recital Hall also hosts several performances each year.
sponsored by the Lied Center for Performing Arts including chamber music concerts and performances especially suited to Kimmel's size.

**Lied Center for Performing Arts.** The Lied Center for Performing Arts in Nebraska's home for the performing arts. Each year over 200,000 people from across Nebraska and neighboring states attend performances at this region's premier performing arts facility. Major regional, national and international artist events are featured. Lied Center programming includes Broadway productions, symphonies, dance, theater and pop entertainers.

The Lied Center is located on the corner of 12th and Q Streets on the University of Nebraska-Lincoln City Campus. The Lied Center Main Stage seats 2,276. It also includes a scene shop for set construction, dressing rooms, and the Lied Center's Johnny Carson Theater, a 200-seat flexible-space, Black-Box theater.

The Lied Center provides a valuable educational resource for University instructional programs. It provides an additional on-campus facility for campus organizations, student and faculty performances.

**Temple Building.** Home of the University Theatre at UNL. Since 1907, Temple houses theatre classes as well as the administrative offices and performance spaces of the Johnny Carson School of Theatre and Film and the Nebraska Repertory Theatre. In 1968, an $11 million renovation doubled the theatre's seating capacity. A 1,000-seat theatre opened in 1999, adding more performance venues.

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**Devaney Sports Center.** With its 13,500-seat arena, the Bob Devaney Sports Center hosts performances by national recording stars. These performances by national recording stars and events sponsored by the Lied Center for Performing Arts include Broadway productions, symphonies, dance, theater and pop entertainers.

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The Lied Center provides a valuable educational resource for University instructional programs. It provides an additional on-campus facility for campus organizations, student and faculty performances.

**Great Plains Art Museum.** The Great Plains Art Museum is located at 1155 Q Street in the Hewit Place building. Administered by the Center for Great Plains Art, the museum is a unique regional art collection that features art of the American West and Great Plains. It consists of over 2,400 bronze sculptures, paintings, drawings, prints, and photographs including works by prominent artists such as Bierstadt, Borgia, Klauber, Jackson, Remington, and Russell, and 20th-century Native American artists. The museum also houses a 6,400-volume library of Western Americana and Canadian books.

**University of Nebraska State Museum.** The University of Nebraska State Museum is a premier performing arts facility. Major regional, national and international performances are usually sponsored by the Lied Center for Performing Arts.

**Information Services.** Computing, networking and telecommunication services are provided to the university community by Information Services (IS). These services touch all students, whether they reside on campus, commute to the university or are enrolled in a distance education program.

When you register as a student online, when you work in a computer lab in your residence hall, when you stop at an email station in the Union between classes, when you log onto myUNL to find out this week's homework assignments, when you download the latest antivirus software free of charge— even when you phone home to talk to your parents—you are utilizing services or facilities provided by IS.

Students who need assistance with computer problems or information about our services can reach the IS Help Desk from 7:30 a.m. to 11:30 p.m., seven days a week by calling (866) 472-3970, toll free.

**Libraries.**

- The University's library system and services are extensive, including more than 2,800,000 volumes and 31,000 active periodicals and serials. In addition to needed library resources, the University Libraries provide study areas and individual study cubicles.

- The University Libraries and the Marvin and Virginia Schmid Law Library offer both in-house and remote access to a wide variety of electronic resources. The Libraries' Web site, http://iris.unl.edu, currently includes the Libraries' electronic catalog, general and specialized journal indexes, full-text electronic journals and a host of Internet resources. Many library services and research assistance are offered electronically to supplement traditional services.

- The Memorial Library, the largest library facility on campus, holds 1,830,000 volumes. The library system also operates more specialized facilities on both UNL campuses. On the City Campus, these include the architecture, engineering, geology, mathematics and music libraries. The Schmid Law Library is located on the University's East Campus. C.Y. Thompson Library, also on the East Campus, is the largest library branch in the UNL system. Its collection emphasizes materials related to agriculture, home economics, and dentistry.

**Sheldon Memorial Art Gallery and Sculpture Garden.** Sheldon Memorial Art Gallery, designed by internationally acclaimed architect Philip Johnson, is one of the nation's most respected university art museums. The Sheldon permanent collections of more than 12,000 objects document the development of American art from the 18th century to the present, with a focus on the 20th century, which includes 64 of the 20th-century Native American artists. The Sheldon offers special exhibitions drawn from the permanent collection and other museums around the world. The Sculpture Garden provides a historical representation of 20th-century American sculpture and contains more than 30 key examples by American artists including the monumental work, Torn Nobeck, by Claes Oldenburg and Cooje van Bruggen.

Sheldon's educational and outreach programming includes an active docent and tour program; annual statewide touring exhibition program; visiting artists and scholars who present public lectures, symposia, Sheldon Museum Store seminars and other educational activities related to exhibitions or the permanent collection.

Sheldon can be found at 12th and Q Streets and on the Web at: shelton.unl.edu.

**Lentz Center for Asian Culture.** The Lentz Center for Asian Culture, located in Hewit Place, Lower Level, 1155 Q Street, is dedicated to the enrichment of knowledge and understanding of Asian art and culture. Through exhibitions of Asian art and artifacts, presentations and cultural activities, the Center provides a unique opportunity for comprehension of the rich diversity and long history of Asian cultures.

The permanent collection of the Lentz Center includes jade and ivory carvings, Tibetan ritual objects, Bhutanese textiles and jewelry, Chinese painting, musical instruments, ceramics, glass, Japanese prints, and other items that reveal facets of traditional Asian civilizations. There are four temporary exhibitions a year. These exhibitions are accompanied by other cultural and educational events concerning Asia, including music programs and lectures.
University of Nebraska Press

The University of Nebraska Press is a nonprofit book publisher and the state's chief publisher of scholarly and general interest books. All new scholarly books published by the press are refereed by scholars in appropriate fields and approved by the Press Advisory Board. Publishing 200 new books a year, the press is the third-largest public university press in the nation. In the past three years, it has won more than thirty awards for book content and design. Its books are sold and read throughout the world.

The University of Nebraska Press serves two constituencies. One is the world of scholarship at large, where the press represents the best aspirations of the University by publishing important research by scholars, wherever they may be, in fields in which the press has become well known nationally and internationally. Some of these fields are Native American studies, literary studies, literary nonfiction and action, translations, military history, Jewish studies, sports, agriculture, and environmental studies. The other constituency is serious readers of the American West. To them, the press brings understanding of both the past and the present, ranging from prehistoric settlement on the Great Plains to Nebraska politics and government to the history, literature, and culture of America west of the Mississippi River.

The press publishes works by such notable Nebraska writers as Willa Cather, Mari Sandoz, Ted Kooser, W. R. Morris, Loren Eiseley, and John Niederhaus, as well as by luminaries such as Tolstoy, Zola, and Henry James. Many books published by the University of Nebraska Press are available in quality trade paperback format under the Bison Books imprint. The Bison Books line is recognized widely as one of the first paperback publishing programs established by a university press.

University of Nebraska-Lincoln Television

With an extensive satellite and closed circuit distribution system, the University of Nebraska-Lincoln Television station KUON-TV operates from one of the nation's finest telecommunications facilities—the Terry M. Carpenter Nebraska Educational Telecommunications (NET) Center. Located on the East Campus, the Center for Applied Rural Innovation (CARI) was established in 1987, develops and administers graduate and undergraduate programs in biochemistry, offers parallel curricula with a common core of science courses leading to an undergraduate biochemistry degree in either the UNL College of Agricultural Sciences and Natural Resources or the College of Arts and Sciences. CARI also sponsors collaborative research in biological chemistry among the members of the faculty. Through the Center, UNL provides a unified biochemistry program that enables the University to make optimal use of its resources in biological chemistry due to the active involvement of UNL faculty from several academic units.

Center for Biotechnology
See “Center for Biotechnology” on page 118.

Center for Communication and Information Science
See “Center for Communication and Information Science” on page 287.

Center for Electro-Optics
See “Center for Electro-Optics” on page 287.

Center for Grassland Studies
See “Center for Grassland Studies” on page 71.

Center for Great Plains Studies
See “Center for Great Plains Studies” on page 118.

Center for Infrastructure Research
See “Center for Infrastructure Research” on page 287.

Center for Laser-Analytical Studies of Trace Gas Dynamics
See “Center for Laser-Analytical Studies of Trace Gas Dynamics” on page 287.

Center for Materials Research and Analysis
See “Nebraska Center for Materials Research and Analysis” on page 119.

Center for Microelectronic and Optical Materials Research
See “Center for Microelectronic and Optical Materials Research” on page 287.

Center for Nontraditional Manufacturing Research
See “Center for Nontraditional Manufacturing Research” on page 287.

Center on Children, Families, and the Law
See “Center on Children, Families, and the Law” on page 118.

Cooperative Extension
See “Cooperative Extension” on page 246.

Engineering Research Centers
See “Engineering Research Centers” on page 287.

channels are also used for statewide teleconferencing, public hearings, and various distance learning programs.

The Interactive Media Group is a recognized leader in developing educational programs for delivery via the Internet/World Wide Web, CD-Rom and other media.

Research and Service Activities

Research plays an integral role in the mission of the University of Nebraska-Lincoln. By encouraging the discovery of new knowledge and supporting scholarly initiative in all fields of study, the University constantly brings innovative ideas, techniques, and perspectives into UNL classrooms. In addition, research done by University scientists and scholars directly supports UNL’s extensive public service programs.

Major research and service activities at the University include those listed below. Detailed descriptions can be found in the individual college sections as noted.

Agricultural Research Division
See “Agricultural Research Division” on page 41.

Atomic, Molecular and Optical Physics Laboratory
See “Atomic, Molecular, Optical, and Plasma Physics Laboratory” on page 117.

Behlen Observatory
See “Behlen Observatory” on page 118.

Bureau of Sociological Research
See “Bureau of Sociological Research” on page 118.

Buros Center for Testing
See “Buros Center for Testing” on page 246.

Cedar Point Biological Station
See “Cedar Point Biological Station” on page 118.

Center for Advanced Land Management Information Technologies (CALMIT)
See “Center for Advanced Land Management Information Technologies (CALMIT)” on page 41.

Center for Applied Rural Innovation (CARI)
See “Center for Applied Rural Innovation (CARI)” on page 41.

Center for Biological Chemistry
The Center for Biological Chemistry (CBC) was established in 1987, develops and administers graduate and undergraduate programs in biochemistry, offers parallel curricula with a common core of science courses leading to an undergraduate biochemistry degree in
Family Resource Center
See “Family Resource Center” on page 246.

Gallup Research Center
The Gallup Research Center is a partnership between UNL and The Gallup Organization established in 1995 as part of the Nebraska Research Initiative. The partnership between UNL and Gallup occurs at every level, involving joint financial support of research, joint support of speaker series, adjunct faculty appointments, student interns, and faculty consultancies. The Center includes faculty from the College of Arts and Sciences, College of Business Administration, College of Education and Human Sciences, and College of Agricultural Sciences and Natural Resources. The Gallup Research Center’s purpose is to support research and training in the areas of survey research and methodology (including political polling, market research, sampling, and measurement), statistical analysis, workplace research, and data management.

Great Plains Veterinary Educational Center (GPVEC)
See “Great Plains Veterinary Educational Center (GPVEC)” on page 41.

Hitchcock Center for Graduate Study and Professional Journalism Development
See “Hitchcock Center for Graduate Study and Professional Journalism Development” on page 348.

Industrial Agricultural Products Center
The Industrial Agricultural Products Center was established by the University of Nebraska-Lincoln to broaden markets for agricultural commodities produced in Nebraska by developing value-added products such as biofuels, biochemicals, biopolymers and biopower. The objectives of the Center are:
1. To broaden Nebraska’s and the nation’s industrial and commercial base through new applications of agricultural commodities
2. To identify which products derived from agricultural commodities have the greatest chance for commercial success
3. To solve technical problems in production and raw material conversion
4. To provide technical, marketing, and business assistance to farmers, entrepreneurs, and people in commerce and industry.

The Center is a partnership involving Nebraska agriculture, business, government, and education. Faculty within the Institute of Agriculture and Natural Resources, the College of Engineering, and the College of Arts and Sciences are associated with the Center.

Institute of Agriculture and Natural Resources (IANR)
See “Institute of Agriculture and Natural Resources (IANR)” on page 42.

International Quilt Study Center
See “International Quilt Study Center” on page 247.

Mathematical Association of America American Mathematics Competitions (AMC)
See “Mathematical Association of America American Mathematics Competitions (AMC)” on page 119.

Mid-America Transportation Center
See “Mid-America Transportation Center” on page 287.

Midwest Roadside Safety Facility
See “Midwest Roadside Safety Facility” on page 287.

Nebraska Center for Mass Spectrometry
See “Nebraska Center for Mass Spectrometry” on page 119.

Nebraska Food Processing Center
See “Nebraska Food Processing Center” on page 42.

Nebraska Tractor Test Laboratory
See “Nebraska Tractor Test Laboratory” on page 42.

Prairie Schooner
See “Prairie Schooner” on page 119.

Psychological Consultation Center
See “Psychological Consultation Center” on page 119.

Ruth Staples Laboratory Program
See “Ruth Staples Laboratory Program” on page 247.

School of Natural Resource Sciences
See “School of Natural Resource Sciences” on page 42.

Speech-Language and Hearing Clinic
See “Speech-Language and Hearing Clinic” on page 246.

Water Center
See “Water Center” on page 120.
Office of Undergraduate Studies

Office of Undergraduate Studies (OUS)

Rita C. Kean, Ph.D., Dean, 201 Seaton Hall, 472-1185
Gail Hackwith, Administrative Assistant
Jennifer Lantz, Staff Assistant

The Office of Undergraduate Studies is responsible for coordinating, administering, and advocating for campus-wide policies, programs and initiatives affecting undergraduate education and the retention of UNL students, particularly those activities outside the academic degree programs and individual majors. The division of General Studies and UNL Honors Program report directly to the Dean. Other reports and responsibilities include the following areas.

Additional information can be found on the OUS Web site at www.unl.edu/ous.

Undergraduate Research Coordinator and Fellowship Adviser
Laura Damuth, Ph.D., Director of Undergraduate Research and Fellowship Advising, 201 Seaton Hall, 472-5024

Undergraduate Research

Both from a personal and professional point of view, one of the most rewarding experiences for undergraduate students is to engage in original research. (All honors students at UNL are encouraged to undertake research projects in their junior and senior years under the guidance of a faculty mentor.) Many undergraduate research projects lead to the preparation of an honors thesis which not only advances the level of academic distinction with which students may graduate but also may be presented to enhance application to graduate and professional schools. In recognition of the value of the research experience, the university provides undergraduate research scholarships to advanced students on a competitive basis and invites all students engaged in research to participate in the annual Undergraduate Research Conference in the spring.

Undergraduate Creative Activities and Research Experiences

The Undergraduate Creative Activities and Research Experiences (UCARE) program is supported by the Office of Undergraduate Studies and funded by the Pepsi Endowment and Program of Excellence Funds. It is a program that creates intellectual partnerships between UNL faculty and undergraduates by providing funds for research. For a more detailed description of the program, please visit the UCARE Web site at www.unl.edu/ucare.

Fellowship Advising

The Fellowship Adviser helps prepare students to apply for international and national competitive scholarships (such as Fulbright, Rhodes, Truman, Marshall, Goldwater, and Rotary). The Fellowship Adviser works closely with students in scholarship selection and scholarship preparation. To find out more about these opportunities, visit the Office of Undergraduate Studies Web site: www.unl.edu/fellowships.

University Assessment Coordinator

Jessica Jonson, Ph.D., University-wide Assessment Coordinator, 201 Seaton Hall, 472-3899

All academic units are regularly required to submit an assessment plan of student learning outcomes and the results of their assessment activities to their college and to the Office of Undergraduate Studies. The University Assessment Coordinator works closely with responsible faculty in the units to help them plan, execute, and evaluate the assessment process. A reflective document of departmental assessment activities and results are part of the unit’s Academic Program Review document. The University Assessment Coordinator also implements and conducts assessments of undergraduate programming at the institutional level. Reports of past assessment activities and potential models can be found on the OUS Web site at www.unl.edu/ous/faculty_resources/assessment.shtml.

Academic Transfer Coordinator

JoAnn Moseman, M.A., Academic Transfer Coordinator, 201 Seaton Hall, 472-9455

Transfer students have unique challenges, including a shorter time on campus to find resources, get to know faculty, and get involved on campus. These students have varied academic backgrounds and different expectations than first year students. The Transfer Coordinator seeks to connect transfer students to the university community as quickly as possible, and also acts as a source of information and referral to a variety of campus resources.
Honor Societies for Transfer Students. These organizations are working together to plan activities for new transfer students to help them feel welcome and get acquainted at UNL. Both organizations recognize and encourage scholarship and involvement on campus.

Phi Theta Kappa Alumni Association. Phi Theta Kappa is an International Honor Society for two-year colleges. Any member in good standing of Phi Theta Kappa at a two-year college is eligible to join the UNL Alumni Association. The UNL group is affiliated with the Nebraska-Wyoming region Alumni Association of Phi Theta Kappa. The UNL Alumni Association seeks to uphold the four hallmarks of Phi Theta Kappa scholarship, leadership, service, and fellowship.

Tau Sigma. Tau Sigma is a national Honor Society recently created exclusively for transfer students. Eligibility for lifetime membership is based on transferring at least one year of credit, full-time status, and the student's GPA. The freshman seminar at UNL. The primary purpose of Tau Sigma of Nebraska is to encourage, recognize, and reward high achievements of students transferring to the University of Nebraska-Lincoln; and to support and promote the students' involvement at this university.

Learning Communities

AnnMarie Williams, Ph.D., Academic Learning Community Coordinator, 201 Seaton Hall, 472-0698

Learning Communities are designed to build community among entering first-year students. Each is sponsored by an academic unit. Each Learning Community cohort is enrolled in two classes together, live together on the same floor of the residence hall and have interaction with faculty and staff through planned activities outside of class. There are 16 learning communities of which 15 are residential. Since their inception in 1998, over 2,000 entering first-year students have participated in the UNL Learning Communities.

Culture Center/OASIS

Jamar Banks, Director, 333 N 14th Street, 472-5500

The Culture Center promotes ethnic traditions and serves as a community meeting place for all students with emphasis on Asian American, African American, Mexican American, and Native American students. The Culture Center seeks to meet the particular educational, cultural, and social needs of ethnic students and their student organizations. Additionally, it seeks to educate others on campus about ethnic cultures and the contributions they make to the campus community.

Services provided at the Culture Center include social events, workshops, large meeting rooms, a conference center, a resource library, student lounges, a computer room, cable television and a fully equipped kitchen.

E.N. Thompson Forum on World Issues

Marcia White, M.A., Coordinator, 201 Seaton Hall, 472-0074

The E.N. Thompson Forum on World Issues brings internationally recognized speakers to the UNL campus to increase understanding of the people, cultures, and societies of other countries and the opportunities and challenges that face us all. In addition to making the lectures available through a variety of media, the Forum organizes related activities for the campus and wider community. The E.N. Thompson Scholars Learning Community gives first-year students the chance to explore world issues together and participate in E.N. Thompson Forum events, including opportunities to interact with Forum speakers.

Nebraska Honors

Patrice Berger, Ph.D., Director/Chair, University Honors Program, 118 Neihardt, 472-5425

See "Nebraska Honors Program" on page 19.

University Honors Program

Patrice Berger, Ph.D., Director/Chair, University Honors Program, 118 Neihardt, 472-5425

See "The University Honors Program" on page 19.

Division of General Studies (DGS)

Donald Gregory, Ph.D., Director of the Division of General Studies, 33 Canfield Administration Building, 472-3605

The Division provides an academic home for UNL students who come to the campus uncertain about the field of study they wish to pursue. Some students have a variety of career interests and need time to make a decision regarding which college and major are most appropriate for them. Others have narrowed their choices to two or three options but want to explore these choices in greater depth before they make a firm commitment. Still, other students have no idea what they want to major in or what career opportunities are available to them.

A fourth category is the student who has chosen a field of study (e.g., engineering or architecture) but needs preparatory work in order to meet the admission requirements of that program. Students pursuing degree programs which are offered on the UNL campus by UNMC (Nursing) also enroll as General Studies students. All of these students will find the assistance they need by enrolling as General Studies students. This unique advising unit currently has one of the largest student enrollments on the campus, with approximately 2,000 students.

Objectives

General Studies advisers cooperate with all eight undergraduate degree-granting colleges on campus as well as the UNO- and UNMC-based programs by providing general academic assistance to students wanting to explore different majors before making a decision about a particular college. One of the strengths of General Studies is its unique position with regard to academic advising. Professional advisers in the Division are qualified to advise students interested in any of the eight UNL undergraduate colleges. By working closely with all of the colleges and with other programs on campus, the adviser can help students design a general academic plan for one or more semesters that will allow them to progress toward a degree, while exploring the variety of opportunities offered by the University.

The eight undergraduate degree-granting colleges are Agriculture and Natural Resources, Architecture, Arts and Sciences, Business Administration, Education and Human Sciences, Engineering, Fine and Performing Arts, Journalism and Mass Communications. Other available programs include Criminal Justice, Nursing, Gerontology, and programs preparing students for further study in a professional college such as Medicine, Law, Dentistry, or Pharmacy. Each of these programs is outlined in detail in other sections of this bulletin.

Since General Studies does not offer a degree program, most students are encouraged to transfer to one of the eight undergraduate colleges by the end of their sophomore year. Some will transfer before that time while others may remain in General Studies longer if they have not met all of the admission requirements for their chosen college, such as a specific grade point average (GPA). Once they have chosen a college, it is in the best interest of students to transfer out of General Studies into that college without delay.

Scholarships

General Studies students are eligible for all scholarships available through the Office of Scholarships and Financial Aid and external sources (see the Financial Aid section of this bulletin).

Academic Advising

General Studies students should consult with their advisers frequently to discuss their academic program, career interests, course selections, specific college admission and graduation requirements, University procedures and policies, and other matters of concern to the student. Since the General Studies adviser works closely with advisers in the eight undergraduate colleges on campus, a student will be able to take courses that meet several college requirements while deciding on a major. This opportunity allows the student to explore possible areas of interest before declaring a major.

Once a student has selected a major or college, the General Studies adviser will review the admission requirements with the student and outline the steps necessary to matriculate in the newly-selected major and college.
Honors

General Studies students are recognized for outstanding academic achievement by the University in two ways: first, by the All-University Honors Convocation held each April, and second, by the General Studies Honor Roll. To be eligible for All-University Honors, a student must meet specific criteria (see “Honors Convocation Recognition Requirements” on page 14 in this bulletin, as well as the Schedule of Classes published each semester). To be named to the General Studies Honor Roll, students must achieve a minimum 3.6 grade point average while carrying at least 12 graded hours in the semester of recognition. The All-University Honors Convocation is based on the cumulative GPA at the end of the first (fall) semester only, while the Honor Roll recognizes scholarship determined by the semester GPA each semester.

Admission to General Studies

Students who have met the overall University admission requirements established by the Board of Regents are eligible for admission to General Studies. The University admission requirements are outlined in detail in the Admission to the University section on page 6 of this bulletin.

Some University colleges have admission requirements in addition to the overall University admission requirements, and General Studies students will be advised accordingly as they choose the majors they would like to pursue in their chosen colleges.

Removal of Entrance Deficiencies

General Studies students who enter the University with one or more course deficiencies (according to the 1997 Admissions Standards) must remove all deficiencies—except those in modern language—within their first 30 credit hours or their first twelve months of continuous enrollment, whichever takes longer. Deficiencies in modern language must be removed within the first 60 credit hours or the first twenty-four months of continuous enrollment, whichever takes longer. Students who enter the University with a math deficiency must take a math course their first semester in attendance and continue taking math until they have successfully removed the deficiency.

General Studies students who lack one or more of the high school units required for admission to any of the eight undergraduate colleges will be advised of the procedure for removing the deficiency by their General Studies Advisor. Most University colleges expect these deficiencies to be removed by the end of the first year at the University. For University policy, see “Graduation Requirements” on page 16.

Transfer Students

Students desiring to transfer from other institutions and enroll in General Studies at UNL must have a cumulative grade point average of C (2.0 GPA on a 4.0 scale) or above. Students who do not meet this requirement may appeal their admission status to the Director of Admissions.

Students transferring into General Studies from outside the University of Nebraska system will need to present a transcript for admission. Courses on the transcript may be evaluated as meeting the overall University requirements for admission, but the determination of which of these courses will meet graduation requirements in a specific college cannot be made until the student declares a specific major within one of the eight undergraduate degree-granting colleges. The General Studies advisor will provide assistance in determining which specific courses may be accepted by each of the colleges. This assessment is done in cooperation with the colleges and is subject to their approval upon admission to their program.

Transferring from a College to General Studies

Students' reasons for transferring into General Studies from within the University system often fall into two categories. The first category includes students who need more time to explore academic options at UNL before declaring a new college. The second category includes students who have not met or maintained the GPA requirement of a specific college but are still in good standing at the University. These students will be allowed to register as General Studies students while attempting to re-establish the GPA necessary for their chosen college. As soon as the specific requirement is met, these students are eligible to seek readmission to their chosen college.

Academic Policies

Pass/No Pass Policy

General Studies students should consult the policies of the colleges they are considering to determine the maximum number of Pass/No Pass courses allowed. Students should also consult the general University policy governing Pass/No Pass courses. For more information, see “Honors Convocation Recognition Requirements” on page 14 of this bulletin.

Grade Appeals

A student who wishes to appeal a course grade should follow the procedure outlined here.

1. Discuss the concern with the instructor or professor who taught the course.
2. Consult the Dean's Office for the grade appeal procedure in the college in which the course was taught. The specific guidelines are noted in this bulletin under each individual college.

Degrees

General Studies does not offer a degree program. The majority of the students in General Studies are freshmen and sophomores who have not yet chosen a major or college or students who have permission to remain in the Division.

General/Liberal Education and Comprehensive Education Program Courses Recommended

A list of all college majors is available to General Studies students. Some colleges have restrictions on enrollments in specific courses. General or liberal education requirements and Comprehensive Education Program requirements in undergraduate colleges at UNL range from 18–65 hours. The remainder of the 125–136 hour graduation requirement consists of courses required in the college major and areas and elective courses. General Studies students will want to select the general/liberal education and Comprehensive Education Program courses and introductory courses which will allow maximum flexibility to explore various majors with minimal risk.

General Studies students should discuss with their advisers the courses that will serve them best.

Courses to Consider for General Studies Registration

(NOTE: Those courses marked with double asterisks [**] may be appropriate for some colleges.)

Essential Studies Courses

Essential Studies courses that also meet Integrative Studies [IS] requirements are listed in bold.

Area A. Communication

COMM 109**, Fundamentals of Human Communication
ENGL 150, Composition I–Writing: Rhetoric as Inquiry
ENGL 151, Composition II–Writing: Rhetoric as Argument
JGEN 120**, Basic Business Communication

Area B. Mathematics and Statistics

MATH 104**, Calculus for Managerial & Social Sciences
MATH 106, Analytic Geometry & Calculus I
MATH 107, Analytic Geometry & Calculus II
MATH 203**, Contemporary Mathematics
STAT 218**, Intro to Statistics

NOTE: MATH 101, 102, 103 will not meet the Comprehensive Education Essential Studies' math requirement but may be needed to fulfill prerequisite requirement(s) for college math requirement(s).

Area C. Human Behavior, Culture and Social Organizations

ANTH 110, Intro to Anthropology
CYAF 160, Human Development & the Family
GEOG 120, Introductory Economic Geography
GEOG 140, Introductory Human Geography
POLS 100, Power & Politics in America
POLS 104, Comparative Politics
PSY 181, Intro to Psychology
SOC 101, Intro to Sociology
SOC 217, Nationality & Race Relations

(ETHN 217)
Area D. Science and Technology

ASTR 103**. Descriptive Astronomy
BIO S 101/101L**. General Biology & Lab
BIOS 109**. General Botany
CHEM 109**. Chemistry in Context I
CHEM 109P**. General Chemistry I
CSCE 105**, Intro to Problem Solving with Computers
GEOG 159**. Elements of Physical Geography
GEOL 100**. Intro to Geology
GEOL 101**. Physical Geology
GEOL 105**. Life of the Past
GEOL 106**. Environmental Geology
GEOL 109**. O ceanography
GEOL 110**. Geological Natural Hazards
METR 131**. The Science of Food
PHYS 115**. Descriptive Physics
PHYS 141**. Elementary General Physics
PHYS 142**. Elementary General Physics II
PHYS 151**. Elements of Physics

Area E. Historical Studies

HIST 100. Western Civilization to 1715
HIST 101. Western Civilization Since 1715
HIST 105**. American Ways (POL S 105)
HIST 150. African Culture & Civilization (ETHN 150)
HIST 171. Latin American Culture & Civilization (ETHN 171)
HIST 181. Intro to East Asian Civilization (POL S 171)
HIST 201. American History to 1877
HIST 202. American History After 1877
POL S 108. Political Ideas

Area F. Humanities

CLAS 180**. Classical Mythology
ENGL 180. Intro to Literature
PHIL 101. Intro to Philosophy
PHIL 106. Philosophy & Current Issues
PHIL 110**. Intro to Logic & Critical Thinking

A variety of literature courses offered by the Department of English will also fulfill core humanities requirement(s).

Area G. Arts

AHIS 101. Intro to Art History & Criticism I
AHIS 102. Intro to Art History & Criticism II
CERM 131. Intro to Ceramics
ENGL 252. Writing of Fiction
ENGL 253. Writing of Poetry
ENGL 259A. Writing for Films & TV
MUNM 276G. The Music Experience
MUNM 280. World Music
MUNM 287. History of Rock Music
MUNM 387. History of American Jazz
MUSC 101. Intro to Music
THEA 112G. Intro to Theatre
THEA 114**. Basic Acting I

Area H. Race, Ethnicity and Gender

ARTH 351. Indigenous Peoples of North America (ETHN 351)
ARTH 352. Indigenous Peoples of the Great Plains (ETHN 352)
ARTH 362. People & Cultures of Africa (ETHN 362)
ARTH 366. People & Cultures of East Asia
COMM 212. Intercultural Communication (ETHN 211)
ENGL 212. Intro to Lesbian & Gay Literature
ENGL 215E. Intro to Women's Literature
ENGL 219J. Twentieth-Century Women Writers
ENGL 243B. Literature of India

Introductory Courses for Exploratory Purposes

Many majors include introductory courses as part of their academic program. Keep in mind that, in general, 100-level courses are for freshmen, 200-level courses for sophomores, 300-level courses for juniors and 400-level courses for seniors.

The introductory courses listed below can be taken as exploratory courses by General Studies students. The listing is not all-inclusive but can serve as a general guide for introductory courses to various areas of study. If a program in which you are interested is not listed below, please call the department for more information. An asterisk (*) beside a course is an indication of prerequisites or specific restrictions associated with that course. Please check the course description within the college in which the course is taught for the specific requirements.

Some Exploratory/Introductory Courses by College

Agriculture
AGR I 103/103S. Food, Agriculture & Natural Resource Systems (3 cr)
AECN 141. Intro to the Economics of Agriculture (3 cr)
AGRO 131. Plant Science (3 cr)
ASC I 100. Fundamentals of Animal Biology & Industry (2 cr) and 101 Intro to Animal Science Lab (1 cr)
HORT 130. Intro to Horticulture Science (4 cr)
MSY M 109*. Physical Principles in Agriculture (4 cr)

Architecture
ARCH 106. Environmental Studies (3 cr)

(by permission only)

Arts and Sciences
BIO S 101 & 101L. General Biology & Lab (4 cr)
CHEM 109. General Chemistry I (4 cr) or CHEM 113* Fundamental Chemistry I (4 cr)
CLAS 180. Classical Mythology (3 cr)

COMM 109. Fundamentals of Human Communication (3 cr)
COMM 209. Public Speaking (3 cr)
CSCE 155*. Computer Science (4 cr)
ECON 211*. Principles of Economics (3 cr)
ENGL 200. Intro to English Studies (3 cr)
GEOG 140. Introductory Human Geography (3 cr)
GEOG 155. Elements of Physical Geography (4 cr)
GEOL 101. Physical Geology (4 cr)
HIST 100. Western Civilization to 1715 (3 cr)
HIST 101. Western Civilization Since 1715 (3 cr)
HIST 201. American History to 1877 (3 cr)
HIST 202. American History After 1877 (3 cr)
MATH 106*. Analytic Geometry & Calculus I (5 cr)
PHIL 101. Intro to Philosophy (3 cr)
PHIL 110. Logic & Critical Thinking (3 cr)
PHYS 151. Elements of Physics (4 cr)
PHYS 211*. General Physics (4 cr)
POL S 100. American Government (3 cr)
POL S 160. International Relations I (3 cr)
PSYC 181. Intro to Psychology (4 cr)
SOC 101. Intro to Sociology (3 cr)

Business
ACCT 201*. Introductory Accounting (3 cr)
ECON 210*. Intro to Economics (5 cr)
ECON 211*. Principles of Economics (3 cr)
JGEN 120. Basic Business Communication (3 cr)

Education and Human Sciences
CYAF 120. Understanding the Consumer Role (3 cr)
CYAF 160. Human Development & the Family (3 cr)
TEAC 331*. Cultured Foundations of American Education (3 cr)

Engineering
CNS T 131. Intro to Construction Industry (3 cr)

(For construction management interest only.)

General Studies students may take the following courses on a “space-available” basis:
AGEN / BISEN 112. Problem Solving in Agricultural & Biological Systems Engineering (3 cr)
CIVE 112. Intro to Civil Engineering (1 cr)
CSCE 150. Intro to Computer Programming for Scientists & Engineers (3 cr)

(For construction management interest only.)

Biological Sciences
M ECH 100. Intro to M echanical Engineering (1 cr)
M ECH 130*. Intro to CAD (2 cr)

Fine and Performing Arts
AHIS 101. Intro to Art History & Criticism I (3 cr)
AHIS 102. Intro to Art History & Criticism II (3 cr)
THEA 112G. Intro to Theatre (3 cr)
THEA 114. Basic Acting I (3 cr)

Journalism
BRDC 226*. Intro to Broadcasting (3 cr)
JOUR 101. Principles of Mass Media (3 cr)

Criminal Justice
CRIM 101. Survey Criminal Justice (3 cr)

Pre-Nursing
BIO S 214. H uman Anatomy (5 cr)
CHEM 105. Chemistry in Context I (4 cr)
College of Agricultural Sciences and Natural Resources

About the College

http://casnr.unl.edu

Steven S. Waller, Ph.D., Dean and Professor of Agronomy
Dann E. Husmann, Ph.D., Associate Dean and Professor of Agricultural Leadership, Education and Communication
John P. Markwell, Ph.D., Associate Dean and Professor of Biochemistry

Faculty

Approximately 190 highly qualified faculty members dedicated to learning and recognized for their scholarly activity in teaching, provide instruction to approximately 1,700 students, including undergraduates and graduates. A high priority is placed on advising in personal development and career preparation. Eleven academic departments and the School of Natural Resources offer a broad scope of options to majors working toward bachelor of science degrees in the areas of agricultural sciences or natural resources. The College offers coordination with the UNL Honors Program, preprofessional programs in forestry and veterinary science, and joint academic transfer programs with many community colleges in the Midwest.

Standing Committees

Committee on Scholarship. Composed of three faculty members and one student member, this committee is responsible for recommending criteria for graduation with distinction, high distinction or highest distinction; reviewing and recommending students for graduation with distinction; and advising the dean on scholarship policies.

Curriculum Committee. The committee may consist of one representative of each unit as voting members and one non-voting member as follows: one faculty member from each unit, two student representatives, the Dean of the College or designee, the Graduate Council representative in IANR as ex-officio (non-voting), and the UNL Curriculum Committee representative from CASNR as ex-officio (voting). This committee acts for the College faculty on all matters dealing with the curriculum. It is authorized to approve, reject, or modify properly initiated student requests involving College requirements, such as course substitutions, waiver of the residency rule, or for acceptance of transfer credits. (See “Grade Appeals” on page 43 for further committee concerns.)

Faculty Advisory Council. The Council will consist of one faculty representative from each unit with each serving a two-year term with approximately one-half of the membership rotated each year. No member will be a unit administrator or hold any administrative office within the College.

Teaching Awards Committee. Membership of the Teaching Awards Committee will consist of the most recent recipient of a teaching award from each unit from which a recipient has been selected. No unit will have more than one member on the Committee. The Committee has the responsibility for recommending candidates for the teaching awards in consultation with the CASNR Advisory Board.

Mission

Since the establishment of the University of Nebraska in 1869 and its commitment to the terms of the Land-Grant College Act calling for the instruction in agriculture, the College of Agricultural Sciences and Natural Resources (CASNR) has provided opportunities for students to develop intellectually and meet the challenges of their era. The College prepares professional leaders in the food, agriculture, and natural resources sciences, and in agribusiness through its undergraduate and graduate programs.
programs. The College also has the responsibility for the coordination of all agricultural sciences and natural resources programs in higher education within the State of Nebraska.

Goals of the College

The goals of the College emphasize the value that our faculty, staff and administration place on preparing our students for successful professional careers. The goals of the College include:

- **Professional development** by providing a strong academic background in agricultural sciences and natural resources through the individualization of programs, through major's options and elective courses that will prepare students for suitable and satisfying careers. Students will develop general knowledge and breadth of understanding through the supporting areas of biological, physical and social sciences and the humanities and, in the areas of communication, business, management, and leadership through practical experiences and application of analytical techniques.

- **Personal development** by providing organizations and experiences that will stimulate and foster professional and social growth, and provide the means to explore career opportunities.

- **Career preparation** through the College's participation with the Career Services Center for after-graduation employment, part-time employment and internships. The College also offers a variety of courses that emphasize career planning and education, hosts an annual Career Day and works closely with the private and public employment sectors.

- **Continuing education** by providing services to the citizens of Nebraska, the assistance to alumni in keeping them current of developments in their field and identifying employment opportunities that may exist and making a life-long commitment to our graduates.

Student Services and Information

Academic Advising

Undergraduate Advising: Dann E. Hrusmann

Advising activities are coordinated by the Associate Dean for Student Affairs in the CASNR Dean's Office. Each student in the College is assigned a faculty advisor to assist in career planning, implementing, and completing academic programs. Assignments are made so that students will be working with an advisor who shares their academic interest. Students are encouraged to visit with their faculty advisor about their career interests and professional development opportunities. Students may change their college, degree, major, and/or advisor. Such changes must be initiated in 103 Agricultural Hall.

Student Organizations

Students in CASNR are encouraged to participate in the College's many student organizations, clubs, events and activities. Departmental clubs allow students to make lasting friendships with students and faculty while providing experience in agricultural sciences and natural resources careers. Students may determine club contact persons by visiting with staff in 103 Agricultural Hall. Many of the clubs have been ranked in national competition. Students may contact their advisers to discuss student organizations that would match their interests.

Student Responsibilities

Students are ultimately responsible for fulfilling all the requirements of the curriculum in which they are enrolled. Students are also responsible for initiating advising contacts and preparing for advising sessions. The mentoring relationship between academic advisers and students is confidential and is strengthened by advisers' listening with understanding to student concerns.

Students are expected to take responsibility for successful university experiences and effective advising sessions by:

1. Participating in New Student Enrollment and priority registration programs;
2. Scheduling appointments with advisers well in advance of priority registration and at other times as needed;
3. Identifying class choices from requirements of the selected program or major;
4. Identifying questions to address in advising sessions;
5. Informing advisers of any special needs, deficiencies or barriers that might affect academic success;
6. Following academic policies and procedures and meeting academic calendar deadlines (e.g., registration, fee payment, degree audit, filing for degree, etc.);
7. Knowing and completing degree or program requirements;
8. Monitoring their progress toward meeting degree requirements by maintaining a copy of their academic records and seeking assistance to resolve any errors or questions; and
9. Acting on recommendations to seek assistance from the various student support services provided by the University.

Bachelor of Science Candidacy Status

Rationale

The purpose of establishing Bachelor of Science Candidacy Status within the College of Agricultural Sciences and Natural Resources (CASNR) is to:

- Provide students with a road map for academic success (If approved, CASNR Bachelor of Science Candidacy Status would be added to the "Ensuring Your Future"); and
- Ensure that CASNR students move through their academic experiences on logical, developmental paths that allow them to maximize the educational impact of the curriculum and:

- Decrease the number of graduating seniors that must complete core requirements (math and natural sciences) during their final semesters.

Criteria for CASNR Bachelor of Science Candidacy Status

- Achieve senior status (88 credit hours or more);
- Have removed high school admission deficiencies;
- Have completed the CASNR core course requirements in mathematics and statistics and natural sciences;
- Complete a degree audit (DARS); and
- Have met with student's academic adviser.

Implementation

Bachelor of Science Candidacy Status must be achieved in the semester prior to the semester in which the student intends to graduate (e.g., if the student anticipates a May graduation, he/she must be cleared before registering for fall courses the semester prior to graduation.) If candidacy has not been achieved prior to the semester in which the student intends to graduate, a hold will be placed on the student's registration. The hold will be removed by the CASNR Dean's Office once the student meets with his/her academic adviser.

Before the semester prior to students' graduations...

1. U N L Registration and Records will identify CASNR students that have achieved senior status (89 credit hours or more) and inform the CASNR Dean's Office;
2. Academic advisers will receive a list of senior status students from the CASNR Dean's Office;
3. Advisers will confirm with the CASNR Dean's Office that their advisees have achieved Bachelor of Science Candidacy Status;
4. The CASNR Dean's Office will confirm students' achievement of candidacy status with individual students and their academic advisers.

CASNR Advisory Board

Composed of 8-16 students and two faculty advisers, the CASNR Advisory Board represents students of the College. The board serves in an advisory capacity in matters of academic programs and services at the unit, college, or university level. It functions as a liaison for students in matters brought before the faculty and/or administration. The board is composed of student representatives from each of the following areas: two students from agricultural economics, agribusiness, agricultural education and agricultural journalism; two students from animal science, veterinary science, veterinary technologist, and pre-veterinary medicine; one
student from agronomy, plant protection, and horticulture; one student from biochemistry, food science and technology, diversified agricultural studies, and mechanized systems management; and two students from natural resource and environmental economics, environmental soil science, environmental studies, fisheries and wildlife, grassland ecology and management, pre forestry, and water science.

Recruitment, Retention and Career Planning

Recruitment and placement activities are coordinated through the Dean's Office. The office is actively involved in recruiting students to the College and providing support for internships and after-graduation employment. For increasing placement success after graduation, students are encouraged to gain work experience through internships. Preparing students for a successful career is a top priority of CASNR. The College offers a variety of courses that emphasize career planning and education. The College also coordinates an annual Career Fair each fall. When students graduate, they are well-prepared to compete in the job market. The College's Career Services East Campus Satellite Office is located in 301 Nbraska East Union. The office coordinates all interview activity with UNL's Career Services for both part-time employment and internships and for after-graduation employment. Representatives from both offices maintain office hours each week in 301 Nbraska East Union. Please contact the office at 472-8273. Students are free to pick up subscription materials for Career Services and browse through informational brochures and videos for companies that employ CASNR students.

The Student Experience

The faculty accept the challenges and responsibilities of the College goals for preparing their students for successful careers. A new program was initiated in the fall of 1999 entitled Ensuring Your Future: A Guide for Student Success in Career Placement. In this program, CASNR students are responsible for taking full advantage of the academic programs, faculty advisers, services, and opportunities that the College and University provides. The College faculty are confident that the criteria identified in the "Ensuring Your Future" program enhance students' career opportunities and will make their college experience very meaningful, as well as enjoyable. The college experience for CASNR students emphasizes the importance of academics, involvement and experience in their personal and professional development.

Academics

• Meet with your assigned adviser at least once per semester each semester that you are enrolled.
• Graduate with a cumulative 3.0 GPA.
• Select elective courses in consultation with your adviser to complement your personal or professional goals and/or present an approved "Minor" application prior to the deadline for submitting the application for graduation.
• Successfully complete the course AGR I/ NRR 388 Employment Seminar.

• Demonstrate computer literacy (successfully complete a course i.e., AGR I 271) or a proficiency examination.

Involvement

• Complete the co-curricular component (6 Essential Experiences Records, each from a different involvement category) of the Comprehensive Education Program: Essential Experiences: A Guide to Co-Curricular Learning.
• Participate in at least one student organization (or student governance) and/or become a student member of a professional society or organization related to your major or professional interests. You are also encouraged to participate in academic and service honoraries when invited.

Experience

• Register with Career Services for at least two years and maintain current information on file during the period of registration.
• Complete at least one internship in the professional field for credit.
• Complete at least one additional career experience with or without credit.
• Maintain a resume file beginning with first semester and prepare a new resume annually.
• Complete a minimum of three interviews through Career Services during the senior year (at least two in the semester preceding graduation).
• Attend a minimum of two CASNR Career Days.
• Identify three references (e.g., academic adviser, club adviser, and employer) by the end of the junior year.

All CASNR students are encouraged to participate in the College's "Ensuring Your Future" program, document their accomplishments with their student portfolio and submit a completed portfolio to the Dean's Office to receive a Dean's Certificate of Recognition.

International Opportunities

The College offers a variety of opportunities for students to enhance their international awareness. All students are required to demonstrate that they have a minimal international awareness, either through course work or experience. A minor in international agriculture and natural resources can be designed for students who seek a broad understanding of the nature and role of agriculture and natural resources in the integrated world economy and the implications of world events for agriculture and natural resources. International study tours of one to three weeks in duration are also sponsored by CASNR to assist students in discovering different ways of thinking and acting as well as making them more informed global citizens.

CASNR also promotes the Study Abroad program offered through the UNL Office of International Affairs which has opportunities of various lengths in numerous countries on all continents. For financial assistance, the College offers the Robert and Beatrice Kleis Fund. One or more grants are awarded annually to undergraduate students in agriculture-related majors at the University of Nebraska-Lincoln. These grants shall be used to subsidize expenses associated with an international study program for credit. For more information on international opportunities, contact Dr. Arlen Eiting, 103 Agricultural Hall, the International Affairs Office, or refer to "Study Abroad and Exchange Programs" on page 21 of this bulletin.

Student Recognition

Each year scholarships and special awards are presented to CASNR students in recognition of academic excellence and noteworthy achievements in college life. The following provides a list of many of those scholarships and awards.

Scholarships

Various donors have provided scholarships for students enrolled in CASNR. Academic year scholarship amounts range from $100 to $2,400. Inquiries about these scholarships can be directed to Dr. D. Ann Hrusman, 103 Agricultural Hall.

Available Only to Entering Freshmen Award

• Daniel Bestor
• Gary & Jeanne Bluhm
• Bluhm Memorial
• Lusher Drake
• George L. Ebere
• Ethel Elander
• Herry E. & Judith K. Evers
• Ralph F. & Hannah M. Emmert
• Herry F. Klosterman
• Emily Krist
• James & Anna Lemly
• John Loewenstein
• Ken M. Ollison
• Harriet T. Randell
• Kenneth M. Reed
• Earl R. Taylor
• U.N.L. Rodeo Association
• Allegra Ilken

Available to Freshmen through Seniors Award

• Kenneth N. & Vera Ash
• Jim Baldwin
• Idaw Ilken Berger
• Charles Booth
• College of Agricultural Sciences & Natural Resources
• Alvin Gard
• Floyd F. Hedlund
• Erwin Hoepf
• Arch & Frances Jorgensen
• Grace M. Keeffe
• Leo W. Kellett Memorial
• Lampert Family
• Lancaster County Farm Bureau
• David H. & Annie E. Larrick
• Glenn & Bertha Lewis
• Inez & Frank M. Uschel
• Nbraska Cooperative Council
• Nbraska N. omadly/Corporate H. erbert
• Leonard U. Irich
• U. Lynn & Dorothy Schulz
• Gov. Dale & Clarice Wolf
• Youkers Farm-Aid
• Charles W. Yount-Agriculture

Available to Sophomores, Juniors, Seniors Award

• Wendell & M. erie Cox
• M. ervin Eighmy Agricultural Scholars
College of Agricultural Sciences and Natural Resources

About the College

Agricultural Leadership, Education and Communication
Ag Education Freshman
Fcelo-Land O- Lakes District 16
Al Sick

Agronomy
Agronomy Department Freshmen
Henry M. Bechell Agronomy Freshman Scholarship
Henry M. Bechell Outstanding Agronomy Club Initiate Award
Ralph A. Elliott
T. H. Gooding Memorial Freshman
Thomas H. Gooding Memorial
Donald & Blanche Hanway
Donald G. & Blanche E. Hanway Student Leadership
Franklin D. Keim
Keim Memorial
Henry J. Kroese
Anne Mints
Dick Monson Agronomy Awards & Scholarship Fund
Nebraska Fertilizer & Ag Chemical Institute Freshman Scholarship
Nebraska Seedsmen
Robert A. Olson Memorial Scholarship Fund
William & Edith Rockie
Dale & Marian Brainard Smith-Agronomy
Stock Seed Farms (Dr. Lawrence Newell)
Keith & Alvina Stough Memorial Scholarship Fund
John C. Swinbank Memorial
Dennis T. Thompson Crop Improvement Scholarship
O'ville A. Vogel Agronomy Fund
Wylie R. Ward Scholarship

Animal Science
Guy N. Baker
Maurice E. Boeckenbauer Memorial
Robert Boeckenbauer Memorial
Coca Cola
Marvin E. Copple Rodeo Association
Mike Cull Block & Bridle Judging & Activities Award
Derrick Family Livestock Judging
Ted Doane
G. H. Francke Livestock Judging
Don Geweke
William J. & Hazel J. Loeffel
Eric Peterson Memorial
Chris & Sarah Ram
Walter A. & Alice V. Rockwell
Max & Ora Maes Stark
Arthur & Viola Thompson
UNL Livestock Judging & Meat Judging
Thomas H. Wake III
Tom & Martha Wake
Winkler Memorial Livestock Judging

Environmental Studies
Marlin Perkins
Donald E. & Doris L. Taylor

Fisheries and Wildlife
Randall W. Schilling
Izaak Walton League:
Jesse Benton
Columbus
Fremont
Lincoln
Nebraska
Platte Valley
Seward
West Point
Howard Wegers
Wildwood Trust

Food Science and Technology
Allen & Barbara Boettcher
Cornish Fund
Food Science and Technology
Food Science Club
General Mills Food Science
Morrison & Genevieve Loewenstein
Nebraska Food Industry Association

Horticulture
Elton Lux M. memorial
Kenneth M. Limer Memorial
Nebraska Associaton of Nurseries
Nebraska Florists Society
Nebraska Golf Course Superintendent's Association

Nebraska Nut Growers Association
Nebraska Turfgrass Foundation
N.O.R.-AM
Clara Tillotson
Trans-Mississippi Scholarship
Roger Ulhinger
Undergraduate Professional Travel
UNL Northern Nut Tree
Western Association of Nurseries
Wayne Whitney Memorial
C. C. & Martha Wagman Memorial
Contact the Horticulture Department

Enchanted Systems Management
John Deere Dealership Management
Paul & Mary Beth Fischbach
Hoppe Memorial
Cae New Holland
George M. Ito Peterson
Edward Rogers Memorial
John Sulek Memorial
Thomas L. Thompson
LeRoy & Jean Thom
Ken VonBargen
Ivan D. Wood Memorial

Plant Protection Sciences
Ward A. & Helen W. Combs
Nebraska State Pest Control
Carl & Bertha Ranney

Range Science
Thomas H. Gooding Memorial
Stock Seed Farms (Dr. Lawrence Newell)
Joseph O. Young Memorial
School of Natural Resources
Herman & Alice Kohrs

Soil Science
William M. Geachin

AGC M. Commodity Marketing
Howard Beerman
Cargill
Conex
ConAg
Cooperative Mutual Insurance Co.
A. W. & Edith H. Epp
Farm Credit Services
Nebraska Cooperative Council
Paul J. Hufp M. Memorial

Agricultural Economics
Howard Beerman
A. W. & Edith H. Epp
Farm Credit Services
Nebraska Cooperative Council

Agricultural Journalism
Irregular Frequency/ Jay Person/M Max Brown
KRVN
Glenn Buck Memorial
Terry M. Eisenbach
Don R. Tinkle

Major Specific Scholarships
Agricultural Leadership, Education and Communication
Ag Education Freshman
Fcelo-Land O- Lakes District 16
Al Sick

Agronomy
Agronomy Department Freshmen
Henry M. Bechell Agronomy Freshman Scholarship
Henry M. Bechell Outstanding Agronomy Club Initiate Award
Ralph A. Elliott
T. H. Gooding Memorial Freshman
Thomas H. Gooding Memorial
Donald & Blanche Hanway
Donald G. & Blanche E. Hanway Student Leadership
Franklin D. Keim
Keim Memorial
Henry J. Kroese
Anne Mints
Dick Monson Agronomy Awards & Scholarship Fund
Nebraska Fertilizer & Ag Chemical Institute Freshman Scholarship
Nebraska Seedsmen
Robert A. Olson Memorial Scholarship Fund
William & Edith Rockie
Dale & Marian Brainard Smith-Agronomy
Stock Seed Farms (Dr. Lawrence Newell)
Keith & Alvina Stough Memorial Scholarship Fund
John C. Swinbank Memorial
Dennis T. Thompson Crop Improvement Scholarship
O'ville A. Vogel Agronomy Fund
Wylie R. Ward Scholarship

Animal Science
Guy N. Baker
Maurice E. Boeckenbauer Memorial
Robert Boeckenbauer Memorial
Coca Cola
Marvin E. Copple Rodeo Association
Mike Cull Block & Bridle Judging & Activities Award
Derrick Family Livestock Judging
Ted Doane
G. H. Francke Livestock Judging
Don Geweke
William J. & Hazel J. Loeffel
Eric Peterson Memorial
Chris & Sarah Ram
Walter A. & Alice V. Rockwell
Max & Ora Maes Stark
Arthur & Viola Thompson
UNL Livestock Judging & Meat Judging
Thomas H. Wake III
Tom & Martha Wake
Winkler Memorial Livestock Judging

Environmental Studies
Marlin Perkins
Donald E. & Doris L. Taylor

Fisheries and Wildlife
Randall W. Schilling
Izaak Walton League:
Jesse Benton
Columbus
Fremont
Grand Island
Lincoln
Nebraska
Platte Valley
Seward
West Point
Howard Wegers
Wildwood Trust

Food Science and Technology
Allen & Barbara Boettcher
Cornish Fund
Food Science and Technology
Food Science Club
General Mills Food Science
Morrison & Genevieve Loewenstein
Nebraska Food Industry Association

Horticulture
Elton Lux M. memorial
Kenneth M. Limer Memorial
Nebraska Association of Nurseries
Nebraska Florists Society
Nebraska Golf Course Superintendent's Association

Nebraska Nut Growers Association
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Don R. Tinkle

Each semester, students having 12 semester-graded hours with a minimum grade point average of 3.75 or above are eligible for the Dean's List.
Degrees with Distinction

In recognition of outstanding academic excellence, the CASNR recommends the bachelors degree W ith Distinction, W ith High Distinction, and W ith Highest Distinction. Recommendations are made by the CASNR Committee on Scholarships and Fellowships. To be eligible for consideration by the Committee undergraduate students must complete 45 credit hours for a letter grade (excluding Pass/No Pass marks) at UNL prior to the semesters in which they graduate and must have completed 60 such credit hours at UNL at the time they graduate. To determine whether or not the eligible candidates will be recommended for the honor, the Committee uses the cumulative grade point average as follows:

- With Distinction: 3.800 - 3.899
- With High Distinction: 3.900 - 3.949
- With Highest Distinction: 3.950 - 4.000

NOTE: An undergraduate thesis would be required to graduate with Highest Distinction regardless of a student’s grade point average.

Research and Service Activities

Agricultural Research Division

The Agricultural Research Division is the research component of the Institute of Agriculture and Natural Resources. It is one of the principal research centers at the University of Nebraska-Lincoln. The research faculty are on joint appointments in the College of Agriculture and Natural Resources and the Cooperative Extension Service. The College of Agriculture and Natural Resources and the Cooperative Extension Service are engaged in research and instructional activities in remote sensing, geographic information systems (GIS), automated cartography and image processing. The research is supported by federal, state and private agencies and foundations. The division provides research and educational services to the public and the private sector.

East Campus

Agricultural Research Division

The Agricultural Research Division is located on the East Campus of the University of Nebraska-Lincoln. The research programs are conducted through 12 academic departments. In addition to laboratories, greenhouses, and other research facilities, about 100 acres of the campus and 600 acres near Lincoln are used for crop and livestock investigations. The research areas include agricultural economics, biological systems engineering, agriculture and education, communication, agronomy, animal science, biochemistry, biology, ecology, entomology, food science, forestry, home economics, horticulture, agricultural meteorology, plant pathology, range management, soil science, veterinary science, and wildlife science. Part of the research work is in cooperation with the USDA, the Agricultural Research Service, and the Forest Service.

Agricultural Research and Development Center

This research facility comprises approximately 3,500 acres of what was formerly the N. C. D. Van Gilder Farm. The land was acquired by the University of Nebraska-Lincoln in 1962 and has been developed into a comprehensive research facility for the Lincoln-based staff of the Institute of Agricultural Research and Development Center.

District Research and Extension Centers

The Agricultural Research Division has scientific and staff programs at district research and extension centers at North Platte, Grand Island, and UNL. These centers are backstopped by the more basic research activities in the subject matter departments. These centers are supported by the Nebraska Department of AGRICULTURE, Office of AGRICULTURE, Office of COMMUNICATIONS, and the University of Nebraska-Lincoln. The centers serve the applied research needs of the major areas of the state.

Off-campus research is also conducted at the U.S. Meat Animal Research Center at Clay Center and the research field laboratories located near Plattsmouth, Lincoln, and Scottsbluff. These centers interact, discuss ideas, and develop cooperative research and education projects and programs that better serve our citizens. These vehicles through which the Center educates people about the importance of the remaining natural resources include a quarterly newsletter, a Web site (grassland.unl.edu), and a seminar series of the fall semester. These centers include the Center for Applied Rural Innovation (CARI) Fellows.

Center for Grassland Studies

Grasslands cover more than half of Nebraska’s land surface area. They serve as the basis of a strong and large livestock industry, a vital wildlife habitat, a natural resource for maintaining and improving environmental quality (water, soil, and air), a growing sports and leisure industry, and a positive influence on quality of life. University of Nebraska faculty have and continue to provide nationally recognized leadership in this field. The Center for Grassland Studies was established in 1994 within the Institute of Agriculture and Natural Resources to bring together faculty and students with expertise in grasses and grazed lands to interact, discuss ideas, and conduct research and education projects and programs that better serve our citizens. Vehicles through which the Center educates people about the importance of grassland include a quarterly newsletter, a Web site (grassland.unl.edu), and a seminar series during the fall semester. See “Center for Grassland Studies” on page 71 where the two major coordinated by the Center are described: Grazing Livestock Systems and Professional Golf Management.

Great Plains Veterinary Educational Center (GPVEC)

The Great Plains Veterinary Educational Center (GPVEC) is working to meet the needs of students and veterinarians serving the livestock industry. Formed as part of the Cooperative Agreement for Veterinary Medical Education between Kansas State and Kansas State University, the GPVEC provides instruction in the areas of food animal (livestock) practice. Under the direction of the GPVEC faculty, veterinary students and veterinarians participate in the veterinary medical care of the University Health Services, the Veterinary Medicine Department, and the Veterinary Medical Research Center (MARC) at the University of Nebraska. This includes surgery, treatment, diagnostics, and herd health. The GPVEC faculty also conduct research primarily in herd health management and work with practicing veterinarians in this area.
The GPVEC programs also serve the continuing education needs of food animal veterinarians nationwide. The programs involve the cooperation of the faculty at the University of Nebraska-Lincoln Department of Veterinary and Biomedical Sciences, Kansas State University College of Veterinary Medicine, and other universities as well as extension specialists and animal and veterinary scientists at M A R C.

Institute of Agriculture and Natural Resources (IANR)

The University of Nebraska Institute of Agriculture and Natural Resources (IANR) was established in 1973 to serve the people of Nebraska in the four-fold mission of teaching, research, extension, and service. Commonly referred to as “IANR”, the Institute is administered by the Vice Chancellor for Agriculture and Natural Resources who also serves as an Associate President in the University of Nebraska system. IANR has faculty and staff located throughout the state. Institute faculty and staff have appointments in the following divisions: Agricultural Research Division, College of Agricultural Sciences and Natural Resources, Extension Division, and the School of Natural Resources. Each division is administered by a dean or director. The Institute is comprised of 12 academic departments, 4 regional research and extension centers, 12 interdisciplinary programs, and five program units, and administers the Nebraska College of Technical Agriculture at Curtis and the Nebraska Statewide Arboretum.

Nebraska Food Processing Center

The Nebraska Food Processing Center at UNL provides assistance on every aspect of value-added food processing including product and process development/evaluation, computational analysis, equipment, packaging, marketing, and business development for individuals and companies requesting its services. The Center assists both Nebraska entrepreneurs and the existing food processing industry through technological transfer and research related to value added food products and food ingredients. The Center, located in the Food Industry building on UNL’s East Campus, is the result of a partnership involving the Institute of Agriculture and Natural Resources, state agencies, and private business and industry.

Nebraska Tractor Test Laboratory

The Department of Biological Systems Engineering is responsible for testing tractors to be sold in Nebraska. The Tractor Test Laboratory tests the performance of new farm tractors in accordance with Nebraska state law and in conformance with the standard testing procedures of the Society of Automotive Engineers and/or the Organization for Economic Cooperation and Development. Since 1920, nearly 1,700 new models of farm tractors have been tested. The laboratory also tests engines, alternative fuels, and off-road vehicles to determine power production and fuel efficiency.

School of Natural Resources

The School of Natural Resources (SNR) has strong scientific programs to provide understanding of complex relationships and interactions within and among natural and managed ecosystems. The School provides leadership in developing outstanding academic programs in natural resources and environmental sciences, and in integrating strategies to affect the sustainable use of natural resources within the framework of related environmental, social, and economic processes. Thus, the School serves the academic and scientific community, government agencies, resource managers, landowners, and the general public, with timely and relevant information on the use and conservation of renewable and nonrenewable natural resources and on resource management opportunities and environmental challenges, particularly those in the Great Plains. Promotion of collaboration within and among disciplines is a goal of the School’s programs.

Admission to the College

Requirements for admission into agricultural sciences or natural resources programs in CASNR are consistent with general University admission requirements. One unit equals one high school year: 4 units of English, 4 units of mathematics, 3 units of natural sciences, 3 units of social studies, and 2 units of foreign language. Students must also meet performance requirements (ACT composite of 20 or higher OR combined SAT score of 950 or higher OR rank in the top one-half of graduating class). Transfer students must have a 2.0 (on a 4.0 scale) cumulative grade point average and 2.0 on most recent term of attendance.

Students who are admitted to CASNR with core course deficiencies must remove these deficiencies within the first 30 credit hours at UNL, or within the first calendar year at UNL, whichever takes longer, excluding foreign language. Students have up to 60 credit hours to remove foreign language deficiencies. College-level course work taken to remove deficiencies can be used to meet degree requirements at CASNR.

Class Standing

Sophomore Standing. For admission to sophomore standing a student must have completed all of the College entrance requirements, earned a minimum of 27 semester hours of credit, and attained a total grade point average of at least 2.0.

Junior Standing. A student has junior standing after meeting the requirements for sophomore standing and completing 53 semester hours of credit.

Senior Standing. A student has senior standing after meeting the requirements for junior standing and completing 89 semester hours of credit.

College Bulletin to Follow

Students must follow the undergraduate bulletin in effect when they enroll in the College of Agricultural Sciences and Natural Resources or any subsequent bulletin published while the student is enrolled in the College. Provided the bulletin they follow is no more than 10 years old at the time of graduation. Students must, however, meet the requirements from one bulletin only.

College Academic Policies

Course and Degree Requirement Exclusions and Restrictions

- Not more than 12 hours of independent study.
- Not more than 24 hours of Pass/No Pass grade option.
- Not more than 64 hours of correspondence courses.
- Not more than 66 hours from two-year colleges.
- Not more than 98 hours from other four-year institutions.
- Not more than 6 hours of correspondence can be counted among the last 36 hours earned.
- No credit toward the BS degree is allowed for MATH 100A.
- No more than 10 semester hours of below C grades are transferable from colleges outside the UN system. Grades below C can only be applied to free electives.

Correspondence Courses

There are many opportunities to earn college credit through the University of Nebraska-Lincoln Office of Extended Education and Outreach. Some of these credits may be applicable not only as elective credits, but also toward the fulfillment of the College’s education requirements. Half of the credit needed for graduation can be earned through correspondence courses, but such credit does not count toward residence. For further information, contact: Office of Extended Education and Outreach, University of Nebraska-Lincoln, 900 N 21st Street, Lincoln, NE 68588-8307, 402-472-2175, http://extended.unl.edu/

Independent Study

Students wishing to take part in independent studies must obtain permission; complete and sign a contract form; and furnish copies of the contract to the instructor, advisor, major departmental office, and the Dean’s Office. The contract should be completed before registration. Forms are available in 103 Agricultural Hall.

Independent study projects include research, literature review or extension of course work under supervision and evaluation of a departmental faculty member. Students may only count 12 hours of independent study toward their degrees and no more than 6 hours can be counted during their last 36 hours earned, excluding senior thesis, internships, and courses taught under an independent study number.
Credit by Examination
Some currently-enrolled students, through outside study or relevant experience, may feel prepared to demonstrate that they have attained the knowledge and/or skills required to pass a particular UNL course. As an alternative to enrolling in the course, such students may elect to take a proficiency exam which tests mastery of the course material. If a student scores satisfactorily on the examination, the student may be awarded credit for the course. Students can obtain detailed information from the Dean’s Office, 103 Agricultural Hall.

Validation of Credit from Non-Regionally Accredited Institutions
At the present time credit may be granted for work earned at privately owned and managed schools, Bible schools, foreign colleges, and technical schools after one or more of the following:
1. The University departmental examination over subject matter studied at the sending institution;
2. Departmental review of textbooks, materials used in the course at the sending institution, and the presentation of examples of the student's work or portfolio when required; and/or
3. The student has taken a higher level course at the University and achieved a grade that was satisfactory according to established criteria of the department, or any departmental requirement deemed necessary by the department head.

Pass/No Pass Courses
Students in CASNR may take any course offered on a Pass/No Pass basis within the 24-hour limitation established by the Academic Senate. However, a department may specify that the Pass/No Pass status of its courses be limited to non-majors, or may choose to offer some courses for letter grades only.

Removal of C-, D, and F Grades
Only the most recent letter grade received in a given course will be used in computing a student's cumulative grade point average if the student has completed the course more than once and previously received a grade or grades below C in that course.

The previous grade (or grades) will not be used in computation of the cumulative grade point average, but it will remain a part of the academic record and will appear on any transcript.
A student can remove from his/her cumulative average a course grade of C-, D+, D, D- or F if the student repeals the equivalent course at the University of Nebraska and achieves a grade other than P (pass), I (incomplete), N (no pass), W (withdrawl), or NR (no report). If a course is no longer being offered, it is not eligible for the revised grade point average computation process.
For complete procedures and regulations, see the Schedule of Classes and the Summer Sessions Bulletin.

Academic Reinstatement (Appeals)
Students who are academically dismissed from the University may appeal that dismissal to the University Academic Standards Committee. Students who wish to initiate an appeal should do so as quickly as possible. Contact the CASNR Dean’s Office, 103 Agricultural Hall.

No consideration of a dismissal appeal will be given until all financial blocks/holds have been removed. If all financial blocks/holds have not been removed before the deadline, the committee will not consider an appeal.

Readmitted Students
A student who has been academically dismissed from UNL will be denied enrollment privileges for at least two consecutive semesters (the four summer sessions count as one semester). A dismissed student may apply for readmission to UNL for the semester following the mandatory "stop-out" period or any subsequent semesters. Applications for readmission will be evaluated by the Office of Admissions in accordance with criteria established by each of the colleges. Decisions regarding specific college readmission will be made by the individual college in which the student seeks to enroll after readmission.

Dual Degrees from the College of Agricultural Sciences and Natural Resources
Students in CASNR may earn a bachelor of science degree in programs in agricultural sciences and natural resources. They must complete all requirements for both programs.

Dual Degrees from CASNR and Other UNL Colleges
Students in other colleges may earn a bachelor of science degree in programs in agricultural sciences or natural resources from CASNR and a degree from another UNL college. Students will need to consult with both colleges to ensure all requirements are satisfied.

Graduate Course Work for Undergraduates
Applied to Bachelors Degree.

Undergraduate students are not permitted to register at the 800 or 900 level except with permission of the Dean of Graduate Studies. Requests for substitutions and waivers involving courses that fall within the basic four-year curriculum in agricultural sciences and natural resources programs must be filed before the start of the fall semester for December graduates, before the start of the spring semester for May graduates and prior to the last day of classes of the spring semester for August graduates. Forms are available in 103 Agricultural Hall or from the student adviser.

The Office of Admissions, Alexander Building (east entrance), City Campus, provides information to new students on how deficiencies can be removed.

Students who enroll with deficiencies are expected to remove the deficiencies within their first 30 credit hours or, if longer, during the student's first continuous enrollment period of 12 months (one fall semester, one spring semester, and a summer session) excluding foreign language. Students have up to 60 credit hours to remove foreign language deficiencies. UNL credit courses used to remove course deficiencies will have those credits used to satisfy UNL/CASNR graduation requirements. Students in CASNR who satisfactorily complete non-university credit courses to remove deficiencies cannot apply those credits toward a degree.

For University policy, see "Graduation Requirements" on page 16.

Residency Requirement
At least 30 of the last 36 hours of credit must be required for and completed in residence in the University or at least 90 hours total must be registered for and completed in residence at UNL.

Substitutions and Waivers
Requests for substitutions and waivers involving courses that fall within the basic four-year curriculum in agricultural sciences and natural resources programs must be filed before the start of the fall semester for December graduates, before the start of the spring semester for May graduates and prior to the last day of classes of the spring semester for August graduates. Forms are available in 103 Agricultural Hall or from the student adviser.
can there be a guarantee from the Office of Graduate Studies that these courses would apply towards a particular program.
Please see your undergraduate adviser or refer to the Graduate Studies Bulletin for additional information.

Transfer Credit Issues

Not more than 98 semester hours of credit from a four-year institution or another University of Nebraska-Lincoln (UNL) college, can be applied toward programs in agricultural sciences or natural resources. A maximum of 66 hours may be transferred from a two-year college. H all of the credit needed for graduation can be earned through correspondence courses, but such credit does not count toward residence; no more than 6 hours can be counted among the last 36 credit hours earned. CASNR accepts no more than 10 semester hours of grades below C transferred from colleges outside the University of Nebraska system. Grades below C can only be applied to free electives.

Applicants must have a minimum cumulative grade point average of C (2.0 on a 4.0 scale) and at least a C average in the last semester of college enrollment at the student’s originating institution.

Transfer of Essential Studies Courses from UNL Colleges

The College of Agricultural Sciences and Natural Resources will be transferred only after completion of the first two years of a degree program at the participating community college and continuing their education and study in a major leading toward a bachelor of science degree in an agricultural sciences or natural resources major.

A student enrolled in the A to B Program may complete the requirements for an associate of science or associate of applied science degree at the community college, transfer to UNL, and work toward a bachelor of science degree in an agricultural sciences or natural resources major. Participating community colleges and campuses include:

- Central Community College
- Central Community College
- Hastings, NE
- Hawkeye Community College
- Waterloo, IA
- M C C o k Community College
- M C C o k, N E
- Metropolitan Community College
- Omaha, NE
- Mid-Plains Community College
- North Platte, NE
- N e br a k a College of Technical Agriculture
- Curtis, NE
- Northeast Community College
- Norfolk, NE
- Southeast Community College
- Beatrice, NE
- Southeast Community College
- Lincoln, NE
- Western Nebraska Community College
- Scottsbluff, NE

3+2 Programs

Two specialized degree programs in animal science and veterinary science are offered jointly with an accredited college or school of veterinary medicine. These two programs permit CASNR animal science or veterinary science majors to receive a bachelor of science degree in agricultural sciences from UNL with a major in animal science or veterinary science after successfully completing two years of the professional curriculum in veterinary medicine at an accredited veterinary school. Students who successfully complete the 3+2 Program, must complete the "Application for Degree" form and provide transcripts to the Credentials Clerk, Office of Registration and Records, 107 Canfield Administration Building, UNL. Students should discuss these degree programs with their academic adviser.

Cooperative Degree Programs

A cooperative degree from UNL and a cooperating institution may be applied towards a four-year degree from either UNL (UNL degree-granting program) or the cooperating institution (non-UNL degree-granting program). All have approved programs of study.

UNL Degree-Granting Programs

A UNL degree-granting program is designed to provide students the opportunity to complete a two-year program of study at one of the four-year institutions listed below, transfer to CASNR and complete the requirements for a bachelor of science degree.

Chadron State College. Chadron State College offers a 2+2 program leading to a grassland ecology and management major.

Peru State College. A transfer program is available for students pursuing majors leading to a bachelor of science degree in an agricultural sciences or natural resources major.

University of Nebraska at Kearney. Transfer programs are available for students pursuing majors leading to a bachelor of science degree in an agricultural sciences or natural resources major.

University of Nebraska at Omaha. The University of Nebraska at Omaha (UNO) cooperates with CASNR in providing four-year pre-agricultural sciences pre-natural resources, pre-food science and technology, and pre-horticulture transfer programs. Students who successfully complete the 3+2 Program, must complete the "Application for Degree" form and provide transcripts to the Credentials Clerk, Office of Registration and Records, 107 Canfield Administration Building, UNL. Students should discuss these degree programs with their academic adviser.

Non UNL Degree-Granting Programs

The CASNR cooperates with other institutions to provide coursework that is applied towards a degree at the cooperating institution. Preprofessional programs offered by CASNR allow students to complete the first two or three years of a degree program at UNL prior to transferring and completing a degree at the cooperating institution.

Chadron State College-Rangeland Science. The 3+1 Program in range science allows Chadron State College students to pursue a range science major through Chadron State College. Students complete three years of coursework at Chadron State College and one year of specialized range science coursework (32 credit hours) at CASNR.

Preforestry. A preprofessional program in forestry consists of 60-70 credit hours. A program of study is developed for one or two years at UNL prior to transferring to the University of Missouri or another accredited forestry school. An agreement between the University of Missouri provides in-state tuition to Nebraska residents with the proper scholastic
Qualifications. Programs have also been developed to allow students from a cooperating institution to complete upper division course work in selected majors that can be applied to their degree program. CASNR students graduate from the cooperating institution.

**Prelaw.** Law schools prefer students with broad academic backgrounds. Accordingly, there is no "prelaw" designation. Study toward a bachelor of science degree in an agricultural sciences or natural resources major is an excellent prelaw curriculum. There are no particular majors or courses students are advised to take to enhance their chances of admission to law school. Students should choose majors and courses that interest them. However, students should take many courses that require writing and complex readings. Students especially those uncertain about law school, may want to take some courses that are not only in the law school curriculum. While these courses will not enhance chances of admission, they will provide information about the legal system and the legal profession.

Prospective applicants are advised to take the Law School Admission Test (LSAT) during the summer before their last year or the fall of their last year. Information and application materials are available from the College of Arts and Sciences. The official guide to U.S. Law Schools, available from the LSAT organization, contains material about the legal profession, the law school experience, the application process, and the individualized information about each American law school approved by the American Bar Association.

CASNR students contemplating application to law school may contact Dr. David Aiken, adviser in the Department of Agricultural Economics, 103 Filley Hall.

**Preveterinary Medicine.** Two or more years of preveterinary medicine general education are required for individuals wishing to enter a four-year program in veterinary medicine (DVM). Courses taken during the preveterinary education (approximately three years) must satisfy the prerequisites for the college of veterinary medicine of the student’s choice.

Students are to select an appropriate major field within which to work toward a college degree while concurrently working toward completion of the prerequisites to the professional programs. Students are encouraged to consider courses of study in one major in veterinary science, animal science, food science and technology, biology or other fields compatible with the professions leading to a bachelor of science degree in an agricultural sciences program. Students may also complete preveterinary prerequisites with a major in fisheries and wildlife or environmental studies leading to a bachelor of science degree in a natural resources program.

**Requirements for Graduation**

The College grants the bachelor of science degree in programs associated with agricultural sciences and natural resources. Students working toward a degree must earn at least 128 semester hours of credit. A minimum cumulative grade point average of C (2.0 on a 4.0 scale) must be maintained throughout the course of studies and is required for graduation.

**Degree Audit (Senior Check)**

The first semester after accumulating 75 credit hours, the UNL Office of Registration and Records will automatically perform an analysis of graduation requirements. The Degree Audit Reporting System (DARS) document will be mailed to the student’s official address identified in the UNL Student Information System. Students having concerns about how courses are being applied to their degree requirements by DARS should consult their academic advisers.

**Application for a Degree**

Each student who expects to receive a diploma must file an Application for Degree in the Office of Registration and Records. A $25 non-refundable application fee, payable to UNL, must accompany the application. Announcements about deadline dates are posted on bulletin boards, the UNL Web site, and printed in the Daily Nebraskan.

Students are responsible for informing the Office of Registration and Records of their graduation plans, including their addresses, the manner in which they are completing their requirements such as by correspondence, by clearance of incompletes, by enrollment at another institution, by taking special examinations, etc., and of any later revision of such plans. Failure to follow this procedure may cause postponement of graduation until a later semester.

**Graduate Studies**

Study beyond the undergraduate level may be highly desirable and may be required for those seeking professional positions. The departments of CASNR offer abundant opportunities to those seeking advanced degrees in the Graduate College.

Graduate work leading to the masters degree is offered in the departments of agricultural economics, agricultural leadership, education and communication (offered jointly with the College of Education and Human Sciences); School of Natural Resources, School of Natural Resources, School of Natural Resources, School of Natural Resources; and the College of Arts and Sciences. A master of agriculture degree is also available.

Graduate work leading to the doctor of philosophy degree is offered by the departments of agricultural economics, agricultural leadership, education and communication (offered jointly with the College of Education and Human Sciences); School of Natural Resources, School of Natural Resources, School of Natural Resources; and the College of Arts and Sciences. A master of science degree is also available.

Further information appears in the Graduate Studies Bulletin.

**Degree Programs and Areas of Study**

**Undergraduate Degree Programs**

Undergraduate bachelor of science (BS) degrees are offered in the areas of agricultural sciences and natural resources through the College of Agricultural Sciences and Natural Resources.

Undergraduate students can combine their major with minors offered through the College of Agricultural Sciences and Natural Resources and preprofessional programs offered by the College with the names and office addresses of the department heads or program leaders. Requirements are stated later in this section.

**Agricultural Sciences Majors**

Agribusines

Ron Hanson
204A Filley Hall
0131
offered jointly with the College of Business Administration

Agricultural Economics

Alan Baquet
102 Filley Hall
0131
Farms and Ranch Management
General Studies
Public Policy

Agricultural Education

Daniel W. Heeler
300 Agricultural Hall
0131
Agricultural Leadership
Teaching

Agricultural Journalism

Jace Ellis
108 Agricultural Communications Building
A r e a s of Emphasis:
Advertising
Broadcasting
News-Editorial

Agronomy

Mark Lagrimini
279D Plant Sciences
0131
Agricultural Ecological Business
Crop Production
Integrated Crop Management
Research Careers
Soil Science
Animal Science
Donald Beermann
C 203 Animal Science
0 pts
Animal Biology
Animal Production & Management
Animal Products
Business
Pre-Veterinary Animal Sciences

Biochemistry
Raymond Chollet
N 200 Beadle Center
0 offered jointly with the College of Arts and Sciences

Diversified Agricultural Studies
Steve Danielson
211 Plant Industries

Food Science and Technology
Rolando Flores
143 Filley Hall

Grazing Livestock Systems
Walter Schacht
347 Kiem Hall

Horticulture
Garald Horst
377 Plant Sciences
0 pts
- Business
- Landscape Design
- Landscape Management
- Plant Science
- Production
- Turfgrass Science

Insect Science
Tiffany Heng-Moss
201B Plant Industry

Mechanized Systems Management
Bill Campbell
204 L. W. Chafee Hall
0 pts
- Agricultural Operations
- Mechanization Marketing
- Mechanization Science
- Processing Operations

Plant Protection Sciences
Fred Baxendale, James Partridge
Plant Protection Sciences Committee
203 Plant Industry
0 pts
- Entomology
- Plant Pathology
- Weed Science

Professional Golf Management
Terrance R. Jordan
219 Kiem Hall

Veterinary Science
David Hardin
120 Veterinary Basic Sciences
0 pts
- Biomedical Sciences
- Veterinary Medicine

Veterinary Technologist
David Hardin
120 Veterinary Basic Sciences
0 pts
- Business
- Science
- Veterinary Science
0 offered jointly with the Nebraska College of Technical Agriculture

A major in veterinary science leading to a bachelor of science degree in veterinary science is available for students entering veterinary medical school. Interested students should contact the department head.

Natural Resources Majors

Environmental Restoration Science
Steve Comfort
256 Kiem Hall

Environmental Studies
Sara Winn
345 Nebraska Union
0 offered jointly with the College of Arts and Sciences

Fisheries and Wildlife
Larkin Powell
419 Hardin Hall

Natural Resource and Environmental Economics
Bruce Johnson
314 B Filley Hall

Grassland Ecology and Management
Walter Schacht
347 Kiem Hall

Water Science
Dean Eisenhauer
232 L. W. Chafee Hall

Multiple Majors

Students may complete requirements for more than one major in either agricultural sciences or natural resources by declaring, prior to the last 30 hours of study, a dual or possibly a triple major. This is made possible through a common core required for all CASNR students. Students may consider these options with their faculty advisers. An adviser is assigned for each additional major declared. Appropriate forms must be processed in 103 Agricultural Hall.

Pre-Professional Programs

Preforestry
Jim Brandle
407 Hardin Hall

Prolaw
David Aiken
103D Filley Hall

Pre-veterinary Medicine
David Hardin
102 Veterinary Basic Sciences

Related Majors

Agricultural Engineering
Ron Yoder
223 L. W. Chafee Hall
0 offered jointly with the College of Engineering

Biological Systems Engineering
Ron Yoder
223 L. W. Chafee Hall
0 offered jointly with the College of Engineering

Hospitality, Restaurant & Tourism Management
Daniel W. Heeler, Susan Fritz
300 Agriculture Hall
0 offered jointly with the College of Education and Human Sciences

Landscape Architecture
Richard Sutton
377 Plant Industry
0 offered jointly with the College of Architecture

Other Academic Programs

Cooperative Program in Veterinary Medicine
David Hardin
120 Veterinary Basic Sciences

Dual Degrees
Dann Husmann
103 Agricultural Hall

Honors Program
Jim Partridge
406 Plant Science
The Honors Program is offered through the University Honors Program

Minors
Dann Husmann
103 Agricultural Hall
(See "Minors" on page 48.)

Multiple Majors
Dann Husmann
103 Agricultural Hall

Teaching Certificate
Lloyd Bell
300 Agricultural Hall

Honors Program

The College of Agricultural Sciences and Natural Resources encourages qualified students to participate in the University Honors Program which is a University-wide program. The College's honors students pursue majors offered by the College while completing the required honors courses.

All University Honors Program students are expected to complete a mentored thesis project with a faculty member of their choosing. Students should enroll in AGRI 299H in the spring semester of their sophomore year. As a major part of AGRI 299H, students will identify a faculty thesis mentor and write a thesis proposal with their faculty thesis mentor. Because of the breadth of majors in agricultural sciences and natural resources, the program
rely on faculty mentors within individual majors to determine the criteria for the constitution of an undergraduate thesis in their area of endeavor. General guidance for mentors is provided as requested by Dr. Partridge.

The Agricultural Research Division supports a competitive grants program to assist the College's Honors Program students in the pursuit of their mentored theses. Students may also seek support from UNL's Undergraduate Creative Activities and Research Experience (UCARE) program.

For more information about the University Honors Program, contact:

Dr. James Partridge
University of Nebraska-Lincoln
406 Plant Science
PO Box 830722
Lincoln, NE 68583-0722
(402) 742-3160
(800) 742-8800 Ext 2541

Also see “Honors Convocation Recognition Requirements” on page 14 of this bulletin.

Teaching Certification

Teacher certification is granted by the University Department of Education after first completing endorsement requirements in one or more approved areas. A list of approved endorsement areas offered at UNL can be found in “Endorsements” on page 255.

Through early planning and careful selection of courses, students may integrate endorsement requirements with CASNR graduation requirements.

Students interested in obtaining teaching endorsements should contact their major advisor, the chair of the teacher education committee in Agricultural Leadership, Education and Communication, or the Director of Student Services within the College of Education and Human Services, 105 Hennick Hall, for details.

Endorsement in agricultural education may be obtained through completion of teaching option requirements (page 54) offered in the Department of Agricultural Leadership, Education and Communication. It is possible to complete biology endorsement requirements through a combined agricultural education-biology program.

Teacher certification requires 1) at least two years recent full-time employment or the equivalent in accumulated part-time employment in agriculture/agribusiness locations, at least one-fourth (25 percent) of which must be in production agriculture or 2) at least one-year of full-time agriculture/agribusiness employment or the equivalent in accumulated part-time employment and 360 or more hours of employment in agriculture/agribusiness occupations under the direction and supervision of a qualified and approved agriculture educator, at least one-fourth (25 percent) of which must be in production agriculture. Students entering the student teaching professional block must have a minimum cumulative GPA of 2.50 and have successfully passed the skills test.

Other CASNR Departments Offering Courses

Entomology

Plant Pathology

Statistics

College Requirements

- The minimum requirements of CASNR reflect the common core of courses that apply to students pursuing degrees in either agricultural sciences or natural resources.
- Mandatory Courses
  - Courses successfully passed the skills test.
  - One-fourth (25 percent) of which must be in approved agriculture/educator, at least under the direction and supervision of a qualified and approved agriculture educator, at least one-fourth (25 percent) of which must be in production agriculture.
- Students entering the student teaching professional block must have a minimum cumulative GPA of 2.50 and have successfully passed the skills test.

International Focus Requirement

- The College places a high priority on the development of a cosmopolitan view of the world for our students. Appreciating the diverse cultures in the global community, understanding its complexity and our interdependence with it is essential to the success of CASNR students.
- The College offers several study abroad opportunities for students as well as requiring that each student take at least one course that has an international focus. A course used to fulfill the International Focus Requirement can also be used to fulfill other degree requirements.
- Students may select courses from the following list. Domestic students who study abroad and international students attending UNL have satisfied the International Focus Requirement.

CASNR Courses

- AGR 126. Intro to Global Agricultural & Natural Resources Issues
- AGR 310. Study Tours in International Agriculture
- AECN 346. World Food Economics
- AECN 367. Agricultural Development in Developing Countries
- AECN 420. International Food & Agricultural Trade
- AECN 425. Agricultural Marketing in a Multilateral Environment
- NE 315. Study Tours in Natural Resource Management

Arts and Sciences Courses

- ANTH 212. Intro to Cultural Anthropology
- ANTH 360. Peoples & Cultures of Oceania
- ANTH 362. Peoples & Cultures of Africa
- ANTH 366. Peoples & Cultures of East Asia

AHIS 101. Art History from Earliest Times to Medieval

AHIS 102. Art History from Renaissance to Modern

AHIS 261. Oriental Art: India, Ceylon, Java, Japan

AHIS 262. Oriental Art: China, Korea, Southeast Asia

ECON 321. Intro to International Economics

ECON 322. Intro to Development Economics

ECON 323. The Economic Development of Latin America

ECON 388. Comparative Economic Systems

ENGL 243B. Literature of India

ENGL 244A. Intro to African Literature

ENGL 244D. African-Caribbean Literature

EGEO 120. Introductory Economic Geography

EGEO 140. Introductory Human Geography

EGEO 242. The Geographical Background to World Affairs

EGEO 272. Geography of World Regions

EGEO 375. Geography of Asia

EGEO 378. Geography of Latin America

HIST 150. African Culture & Civilization

HIST 171. Latin American Culture & Civilization

HIST 181. Intro to East Asian Civilization

HIST 218. History of Islam

HIST 271. T. The Latin American Colonies

HIST 272. The Latin American Republics

HIST 282. Modern East Asia

HIST 288. Modern East Asia

HIST 294. M. ODL 234D. Major Themes in World Literature

HIST 361. The United Nations & World Politics

HIST 362. R. Russian Politics

HIST 363. Chinese Politics

HIST 367. Latin American Government & Politics

Capstone Course Requirement

A capstone course is required for each CASNR major. A capstone course is defined as a course in which students are required to integrate diverse bodies of knowledge to solve a problem or formulate a policy of societal importance. Capstone courses have the following characteristics:

- exposed to an interdisciplinary approach
• integrate/synthesizing across the major’s curriculum
• develops problem solving skills consistent with the profession
• development of basic competencies
• integration of societal, economic, ethical, scientific and professional aspects
• utilizes multiple instructional methodologies and formats

The intent of the CASNR capstone course requirement is to provide a synthesis experience within a major. Capstone courses external to the major do not meet the intent of the requirement. The “Comprehensive Education Program” on page 16 is required of all undergraduate students in the University. It is comprised of four components: Information Discovery and Retrieval, Essential Studies [ES], Integrative Studies [IS] and Co-curricular Experience.

Information Discovery and Retrieval

All CASNR students entering the College with less than 53 credit hours are required to take AGR 110 (Introduction to Agricultural and Natural Resource Systems). This course incorporates LIBR 110 (Introduction to Library Research) which fulfills the Information Discovery and Retrieval requirement. Students transferring from other institutions with more than 52 credit hours are encouraged to visit with their advisers to assess their skills in Information Discovery and Retrieval.

Essential Studies

A student will take nine courses (generally 27 credit hours) in eight different areas (A-H). Two courses are required in Area C - Human Behavior, Culture and Social Organization. The College minimum requirements for a degree include courses in Communication (A), Math and Statistics (B), Human Behavior, Culture and Social Organization (C), and Science and Technology (D). Students in CASNR must select elective courses listed in the College Minimum Requirements under Humanities and Social Sciences to fulfill the remaining ES requirements in:

• Human Behavior, Culture and Social Organization (C)
• Historical Studies (E)
• Humanities (F)
• Arts (G)
• Race, Ethnicity and Gender (H)

The courses listed as fulfilling the Essential Studies [ES] requirements for CASNR students (courses identified with * in column A) have been reviewed by the faculty and have been selected because they contribute substantially to the objectives of a general liberal education. Even though a course may appear in more than one Essential Studies area, a student may use a course in only ONE Essential Studies area. Courses taken to meet College ES requirements must be taken from this list.

Transfer of Essential Studies Courses from Other UNL Colleges

The College will accept (directly or by substitution) for degree credit towards the general education requirements courses taken by students in fulfillment of ES requirement in any other college within UNL.

Integrative Studies

Courses approved as Integrative Studies are selected based on the way the course is taught. Each IS course will incorporate to the extent possible writing, speaking, critical thinking, analysis of controversies, exploration of assumptions, inquiry through course content into the origins, bases and consequences of intellectual bias and the consideration of human diversity. Each student is required to take ten courses that have been designated as Integrative Studies (list on page 388). Integrative Studies courses can be taken from any university department (including the major) with a limit of three from one department. Out of the ten IS courses, at least one must be a 200-level course, one a 300-level and one an 400-level course. Any IS courses will also be ES courses so that students can fulfill the requirements simultaneously.

Transfer of Integrative Studies Courses

Since IS courses are unique to the instructional methodology and unique to the University, courses from other institutions cannot be used to fulfill the IS requirement. However, students transferring to CASNR will have their requirements proportionately reduced based on the number of credit hours transferred that apply towards their degree.

Co-curricular

Students will receive a co-curricular package outlining opportunities for satisfying this requirement. This component of the Comprehensive Education program is also integrated into the CASNR “Ensuring Your Future” program.

Minors

Minors in the College will consist of 18 hours in the minor area of study, including at least six hours at the 300 and/or 400 level. Alternatively, 12 hours of 300- and/or 400-level courses will meet the requirement. At the discretion of the department(s) responsible for the minor, up to three hours of independent study may be counted toward the minor. Departmental faculty may specify additional requirements for their minor(s).

The following is a list of minors offered through CASNR indicating the page number where the description of the minor can be found:

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<td>Natural Resources Economics</td>
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Filing for a Minor

Students wishing to declare a minor must file a new C-D-M-A (College-Degree-Major-Advisor) form with the Dean’s Office prior to filing for graduation if the minor is exactly the same as that published in the student’s Undergraduate Bulletin. If there are any variations from the published minor, the student must file the “Application for a Minor” form with the Dean’s Office.

Minors in Other Colleges

A student with a major leading to a bachelor of science degree in an agricultural sciences or natural resources major who wants to obtain a minor in a department in the College of Arts and Sciences should use the following procedure in making his/her request:

1. In consultation with the adviser, prepare the list of courses required for either Plan A or Plan B in the chosen minor as indicated in the College of Arts and Sciences section of this bulletin. Plan A indicates a single minor; Plan B indicates two minors with fewer hours in each subject than the number of hours required in Plan A.

2. Submit the C-D-M-A form for the minor to the CASNR Dean’s Office prior to the deadline for submitting the application for graduation.

The minor will be recorded on the student’s transcript.

International Agriculture and Natural Resources Minor

Coordinator: Professor Arlen Etting, 103 Agricultural Hall

Professors: Bink, Humann, C. Francis, S. Macon, Soop-Chick, Peterson, Fuller, Fulginiti

Associate Professor: L. Powell

Assistant Professors: S. Thomas, Yianaka

Senior Lecturer: L. H. Hardin

Undergraduate Advisor: Swartz

The International Agriculture and Natural Resources Minor is designed for students who seek a broad understanding of the nature and role of agriculture and natural resources in the integrated world economy and of the implications of world events for agriculture and natural resources in both the United States and abroad. The minor adds a global perspective to professional preparation. It is for students who desire a broad understanding of international trade and development issues as well as for those seeking employment in business firms or government agencies with international operations or interests.

Students typically build their minor program from courses organized around three areas: 1) a group of international courses in CASNR; 2) a group of international courses in any other college; and 3) additional courses that contribute to the minor. University requirements in foreign languages and area studies are also included. World events for agriculture and natural resources can be described in terms of agriculture and natural resources being among the basic needs for human survival. The minor adds a global perspective to professional preparation. It is for students who desire a broad understanding of international trade and development issues as well as for those seeking employment in business firms or government agencies with international operations or interests.

Students typically build their minor program from courses organized around three areas: 1) a group of international courses in CASNR; 2) complimentary international courses offered in arts and sciences, and business administration; and 3) optional but highly recommended modern language instruction or experience as a base for building international communications skills. The minor has two options: 1) a minor in International Agriculture and Natural Resources; 2) a minor in International Agriculture and Natural Resources with a minor in a related field. The minor requires a total of 18 credit hours, including a minimum of 6 credits in courses at or above the 300 level. The minor requires a total of 18 credit hours, including a minimum of 6 credits in courses at or above the 300 level.
Degree Requirements for BS in Agricultural Sciences

College of Agricultural Sciences and Natural Resources

12-Credit-Hour Plan
- An overall 12 credits in approved courses at or above the 300 level
- A minimum of 3 credits in CASNR courses other than Independent Study, AGRI 310 or NRES 315
- A maximum of 6 credits from any one department or program
- A maximum of 6 credits of modern languages at or above the 200 level
- A maximum of 3 credits of Independent Study and AGRI 310 or NRES 315 combined

18-Credit-Hour Plan
- An overall 18 credits in approved courses
- A minimum of 6 credits in CASNR courses
- A minimum of 6 credits in courses at or above the 300 level
- A maximum of 9 credits from any one department or program
- A maximum of 6 credits of modern languages at or above the 200 level
- A maximum of 3 credits of Independent Study
- A maximum of 3 credits of AGRI 310 or NRES 315

*Courses suitable for inclusion in the minor program are those in the CASNR International Focus Requirement list on page 47 and the College of Arts and Sciences International Studies list on page 150 of this bulletin. Other courses may be included with prior approval of minor coordinator. Most language courses may be at the 200 level.

NOTE: A course being taught to more than two students under an independent study course number as a trial offering, or a special topic offering does not count against the credits of Independent Study.

A student in consultation with the academic adviser and a minor adviser (chosen from those above) prepares a list of courses on the CASNR Application for Minor form; obtains the appropriate signatures and submits the minor form to the minor coordinator prior to deadline for submitting the request for graduation. An individual or group educational experience combining classroom lectures, discussions, and/or seminars with tours to broaden the student's knowledge of specific aspects of agriculture in foreign countries, courses in independent study, or on- and off-campus study. Certification for the minor is granted upon approval of the minor coordinator and the CASNR office.

The specific requirements for each major are listed under each major. Students planning to transfer from other colleges or who are undecided about their major fields of interest should use these requirements as a guide. At the beginning of the semester, students are encouraged to follow the outlined completion of the student's program.

College Integrative Core Requirements
- AGRI NRES 103 (Intro to Agricultural & Natural Resource Systems)
- Mathematics and Statistics (beyond college algebra)
- Minimum 6 credits in CASNR courses
- Minimum 6 credits in courses at or above the 300 level
- Minimum 6 credits of modern languages at or above the 200 level
- Minimum 3 credits of Independent Study
- Minimum 3 credits of AGRI 310 or NRES 315

Students interested in pursuing an International Agriculture and Natural Resources minor should contact the minor coordinator or the CASNR Dean's Office, 103 Agricultural Hall.

Courses of Instruction (AGRI)

Degree Requirements for Bachelor of Science in an Agricultural Sciences Degree Program

The degree requirements apply to every bachelor of science degree in an agricultural sciences degree. They reflect the philosophy that there is a common foundation of knowledge essential for professionals in agricultural sciences. These courses are designed to provide knowledge of the basic principles for more specialized courses. The specific requirements for each major incorporate the minimum requirements for the bachelor of science degree.

The following courses should be completed early because they provide knowledge of the basic principles for more specialized courses. The courses of each major incorporate the minimum requirements for the bachelor of science degree.

College Integrative Core Requirements
- AGRI NRES 103 (Intro to Agricultural & Natural Resource Systems)
- Mathematics and Statistics (beyond college algebra)
- Minimum 6 credits in CASNR courses
- Minimum 6 credits in courses at or above the 300 level
- Minimum 6 credits of modern languages at or above the 200 level
- Minimum 3 credits of Independent Study
- Minimum 3 credits of AGRI 310 or NRES 315

Students interested in pursuing an International Agriculture and Natural Resources minor should contact the minor coordinator or the CASNR Dean's Office, 103 Agricultural Hall.

Courses of Instruction (AGRI)

Degree Requirements for Bachelor of Science in an Agricultural Sciences Degree Program

The degree requirements apply to every bachelor of science degree in an agricultural sciences degree. They reflect the philosophy that there is a common foundation of knowledge essential for professionals in agricultural sciences. These courses are designed to provide knowledge of the basic principles for more specialized courses. The courses of each major incorporate the minimum requirements for the bachelor of science degree.

The following courses should be completed early because they provide knowledge of the basic principles for more specialized courses. The courses of each major incorporate the minimum requirements for the bachelor of science degree.
General Option

Major Requirements ......................................... 65-67

Agricultural Economics .................................. 28
AECN 201 Farm & Ranch Management (4 cr) or
AECN 225 Agriculture & Food Products
Marketing or AECN 325 M life of
Agricultural Commodity (3 cr) (3 cr)
AECN 256 Agricultural Law or BLAW 372
Business Law II (3 cr)
AECN 316 Agribusiness Management (3 cr)
AECN 452 Agricultural Finance or FIN A
361 Finance (3 cr)
AECN Electives (at least 6 cr at the 300
level or above) ................................................................. 9
Select one from:
AECN 401 Advanced Farm Management &
Linear Programming (4 cr)
AECN 416 Advanced Agribusiness
Management (3 cr)
AECN 420 International Food &
Agricultural Trade (3 cr)
AECN 425 Agricultural Marketing in a
Multinational Environment (3 cr)
AECN 445 Agricultural & Natural
Resource Policy (3 cr)
AECN 453 Agricultural & Rural Property
Appraisal (3 cr)
Agricultural Sciences and Natural Resources 
5 RN R E S 103 Food, Agricultural & Natural 
Resource Systems ......................................................... 3
Mathematics and Statistics .................................. 6-8
Math 104 Calculus for Managerial & Social
Sciences (3 cr) or Math 106 Analytical
Geometry & Calculus I (5 cr) .............................. 3-5
STAT 218 Intro to Statistics (3 cr) or ECON
215 Statistics (3 cr) .............................................................. 3
Communications ..................................................... 9
Written Communication .................................... 6
Select from: ENGL 150 or 251, 254; JGEN 200,
200 (3 cr ea)
Oral Communication ........................................... 3
Select from: COMMM 209, 211
Natural Sciences ..................................................... 8
Select any two from:
BIO 101 & 101L General Biology & Lab
(recommended) (4 cr)
Chem 105 Chemistry in Context or
Chem 109 General Chemistry (4 cr)
Micro 109 Principles of Physics in Agriculture 
or PHYS 151 Elements of Physics (4 cr)
(BIO 101 & 101L and Chem 109 required for 
Food Products Marketing & Management option)
Humanities and Social Sciences ......................... 21
AECN 141 or ECON 212 ................................................. 3
ECON 211 .............................................................. 3
ECON 212 .............................................................. 3
Essential Studies ....................................................... 15
Area C: Human Behavior, Culture & Social
Organization ......................................................... 3
Area A: Historical Studies ..................................... 9
Area F: Humanities, Literature, Philosophy,
Religion & Fine Arts ............................................ 3
Area H: Race, Ethnicity & Gender ....................... 3
Total Core Requirements ....................................... 47-49

Agricultural Finance and Banking Option

Agricultural Sciences ........................................... 34
AECN 201 Farm & Ranch Management (4 cr)
AECN 235 Marketing of Agricultural
Commodities .......................................................... 3
AECN 256 Legal Aspects in Agriculture or
BLAW 372 Law Environment (3 cr)
AECN 301 Farm Records & Income Tax
Management .......................................................... 3
AECN 452 Agricultural Finance ......................... 3
Capstone Course - AECN 453 Agricultural
& Rural Property Appraisal (3 cr)
AECN 399 Financial Management
Internship or Related Experience ................. 3
AECN Elective - 300 level or above 
(excluding AECN 388) .............................................. 9
CASNR Electives - AGRO 153 or any 200
level or above (excluding BIO 101, 101L,
and AECN 388) .............................................................. 9
Supporting Courses ................................................ 31-33
ACCT 201 & 202 Introductory Accounting I & II (6 cr)
or AECN 201 Farm & Ranch Management (4 cr)
or AECN 225 Agriculture & Food Products
Marketing or AECN 325 M life of
Agricultural Commodity (3 cr)
ECON 311 Intermediate Microeconomics (3 cr)
ECON 312 Intermediate Microeconomics 
(AECN Elective - 300 level or above)
MGT 331 Decision Making & Resources
Management (3 cr)
MRKT 341 Marketing (3 cr)
CBA Electives (at least 6 cr at the 300
level or above) .............................................................. 9
Free electives ......................................................... 12-16
NOTE: A minimum of 9 credit hours of courses 
from the International Block must be completed as a 
part of the program. See CROSS CUTTING 
REQUIREMENTS for specifics.

Marketing Option

Major Requirements ......................................... 65-67

Agricultural Economics .................................. 28
AECN 201 Farm & Ranch Management (4 cr) or
AECN 225 Agriculture & Food Products
Marketing ......................................................... 3
AECN 256 Agricultural Law or BLAW 
372 Business Law II (3 cr)
AECN 316 Agribusiness Management (3 cr)
AECN 325 Marketing of Agricultural
Commodities .......................................................... 3
AECN 452 Agricultural Finance or FIN A 
361 Finance (3 cr)
AECN Electives (at least 6 cr at the 300
level or above) .............................................................. 9
Select one from:
AECN 401 Advanced Farm Management &
Linear Programming (4 cr)
AECN 416 Advanced Agribusiness
Management (3 cr)
AECN 420 International Food &
Agricultural Trade (3 cr)
AECN 425 Agricultural Marketing in a
Multinational Environment (3 cr)
AECN 445 Agricultural & Natural
Resource Policy (3 cr)
AECN 453 Agricultural & Rural Property
Appraisal (3 cr)
Agricultural Sciences and Natural Resources 
5 RN R E S 103 Food, Agricultural & Natural 
Resource Systems ......................................................... 3
Mathematics and Statistics .................................. 6-8
Math 104 Calculus for Managerial & Social
Sciences (3 cr) or Math 106 Analytical
Geometry & Calculus I (5 cr) .............................. 3-5
STAT 218 Intro to Statistics (3 cr) or ECON
215 Statistics (3 cr) .............................................................. 3
Communications ..................................................... 9
Written Communication .................................... 6
Select from: ENGL 150 or 251, 254; JGEN 200,
200 (3 cr ea)
Oral Communication ........................................... 3
Select from: COMMM 209, 311
Natural Sciences ..................................................... 8
Select any two from:
BIO 101 & 101L General Biology & Lab
(recommended) (4 cr)
Chem 105 Chemistry in Context or
Chem 109 General Chemistry (4 cr)
Micro 109 Principles of Physics in Agriculture 
or PHYS 151 Elements of Physics (4 cr)
(BIO 101 & 101L and Chem 109 required for 
Food Products Marketing & Management option)
Humanities and Social Sciences ......................... 21
AECN 141 or ECON 212 ................................................. 3
ECON 211 .............................................................. 3
ECON 212 .............................................................. 3
Essential Studies ....................................................... 15
Area C: Human Behavior, Culture & Social
Organization ......................................................... 3
Area A: Historical Studies ..................................... 9
Area F: Humanities, Literature, Philosophy,
Religion & Fine Arts ............................................ 3
Area H: Race, Ethnicity & Gender ....................... 3
Total Core Requirements ....................................... 47-49

Supporting Courses ................................................ 28-30
ACCT 201 & 202 Introductory Accounting I & II (6 cr)
or AECN 201 Farm & Ranch Management (4 cr)
or AECN 225 Agriculture & Food Products
Marketing or AECN 325 M life of
Agricultural Commodity (3 cr)
ECON 311 Intermediate Microeconomics (3 cr)
ECON 312 Intermediate Microeconomics 
(AECN Elective - 300 level or above)
MGT 331 Decision Making & Resources
Management (3 cr)
MRKT 341 Marketing (3 cr)
CBA Electives (at least 6 cr at the 300
level or above) .............................................................. 9
Free Electives ......................................................... 12-16
NOTE: A minimum of 9 credit hours of courses 
from the International Block must be completed as a 
part of the program. See CROSS CUTTING 
REQUIREMENTS for specifics.

Cross-Cutting Requirements

International Block: 9 hours of course work with an 
international focus are required as part of the 128
hours required. One 3-hour course must be selected 
from Area 1 below. The remaining 6 hours can be 
selected from courses in any category. All interna-
tional block courses may also count else-
where in the student's program.

Area 1. All international focus courses as defined in 
this bulletin (see "International Agriculture and 
Natural Resources Minor" on page 48).

Area 2. All courses offered by the Department of 
Modern Languages.

Area 3. Additional international-focus courses not 
in Areas 1 or 2: Refer to the 2006-2007 
Agricultural Economics Undergraduate Student 
Handbook or see a department academic adviser.

Computer Proficiency Requirement: Profi-
cency at the AGRI 271 level, met by evidence 
from prior courses or a proficiency exam; or 
taking AGRI 271.

Free Electives ......................................................... 13-16
Credit Hours Required for Graduation ........ 128
Agricultural Economics/College of Agricultural Sciences and Natural Resources

Food Products Marketing and Management Option

Major Requirements .............................................. 70-72

Chemistry ......................................................... 4
AGRO 110 General Chemistry II ...................... 4
AECN 201 Agricultural Economics.......................... 3
ACCT 101 Introductory Food Science .................. 2
AECN 151 Introduction to Economics .................. 3
FDST 255 Food Composition & Analysis .............. 3
AECN 225 Agricultural & Food Products Marketing . 3
FDST 280 Contemporary Issues in Food Science ...... 2
AECN 316 Agribusiness Management ................. 3
ACCT 201 Animal Products ................................. 3
AECN 420 International Food & Agricultural Trade (3 cr) or AECN 425 Agrimarketing in a Multinational Environment (3 cr)
AECN 399 Food Products Industry
Agricultural Marketing in a Multinational Environment (3 cr)
AECN 471 Agribusiness Management
Agricultural Marketing in a Multinational Environment (3 cr)
AECN 472 Agribusiness Management
Agricultural Marketing in a Multinational Environment (3 cr)
AECN Elective (exclude AECN 141 and AECN 267) .... 3

Supporting Courses .................................................. 32-34
ACCT 306 Survey of Accounting (4 cr) or
ACCT 201 Intro to Accounting (1 cr) (3 cr)
& ACCT 202 Intro to Accounting II (3 cr)
MGT 331 Operations & Resources Management ........ 4-6
NUTR 301 Intro to Hospitality Management .......................... 3
NUTR 370 Food Production Management ..................... 1
ECO 311 Intermediate Microeconomics ............ 3
ECO 312 Intermediate Microeconomics ............ 3
MGT 361 Personnel/Human Resource Management .... 3
MGT 365 Manging Diversity in Organizations ......... 3
MKT 341 Marketing Management ......................... 3
MKT 347 Marketing Communication Strategies .......... 3

Free Electives .................................................. 7-11

Note: A minimum of 9 credit hours of courses from the International Block must be completed as a part of the curriculum. See CROSS-CUTTING REQUIREMENTS for specifics.

Agribusiness Minor

Hours

ACCT 201 Introductory Accounting I ................. 3
AGRO 201 Farm & Ranch Management .................. 4
AGRO 325 Marketing of Agricultural Commodities or AECN 225 Agrimarketing & Food Products Marketing ............ 3
AECN 316 Agribusiness Management ................... 3
AGRO 452 Agricultural Finance or FINA 361 Finance ........................................................................... 3
MGT 360 Manging Behavior in Organizations or MGT 361 Personnel/Human Resource Management .... 3

Total 19

Preparation for Graduate Studies

Students who intend to pursue a masters degree in the Department of Agricultural Economics should consult with their advisor to avoid any graduate entrance deficiencies.

Agricultural Economics

Head: Professor Alan Baquet, Department of Agricultural Economics, 102 Filley Hall
Professors: Alken, Azam, Conley, Fulginiti, Hannon, Johnson, Perrin, Peterson, Royer, Supalla
Associate Professors: Aiken, Mark, Schoenold, Yianakou
Coordinator for Undergraduate Research: Fulginiti

Students majoring in agricultural economics learn to apply economic and financial principles to the analysis of problems in agriculture, business, government, and other areas. The major offers students the opportunity to gain skills in planning, evaluation, and management that are useful in both private- and public-sector enterprises.

Agricultural economics majors must choose one of three available options (Farm and Ranch Management, Public Policy, or General) and must complete at least 15 credit hours of agricultural economics courses for a grade (not Pass/No Pass).

Students completing an agricultural economics major may not receive a second major in agriculture.

Core Requirements

College Integrative Course ........................................ 3
AECN 141 Agricultural Economics .......................... 2
AECN 201 Farm & Ranch Management .................. 4
AECN 325 Marketing of Agricultural Commodities .... 3
AECN 401 Advanced Farm & Ranch Management ...... 3
ECON 212 Intermediate Microeconomics ............. 3
ECON 311 Intermediate Macroeconomics ............. 3
ECON 312 Intermediate Macroeconomics ............. 3
MATH 104 Calculus for Managerial & Social Sciences ................................................. 3
MATH 105 Calculus for Managerial & Social Sciences ................................................. 3
MATH 212 Calculus ................................. 3

AECN 399 Agricultural Marketing & Environment (3 cr) or AECN 425 Agrimarketing in a Multinational Environment (3 cr)
AECN 399 Agribusiness Management
Agricultural Marketing in a Multinational Environment (3 cr)
AECN 471 Agribusiness Management
Agricultural Marketing in a Multinational Environment (3 cr)
AECN 472 Agribusiness Management
Agricultural Marketing in a Multinational Environment (3 cr)

Supporting Courses .................................................. 32
ACCT 101 Introductory Accounting I (3 cr) or
ACCT 201 Intro to Accounting II (3 cr)
MGT 331 Operations & Resources Management ........ 4-6
NUTR 301 Intro to Hospitality Management .......................... 3
NUTR 370 Food Production Management ..................... 1
ECO 311 Intermediate Microeconomics ............ 3
ECO 312 Intermediate Microeconomics ............ 3
MGT 361 Personnel/Human Resource Management .... 3
MGT 365 Manging Diversity in Organizations ......... 3
MKT 341 Marketing Management ......................... 3
MKT 347 Marketing Communication Strategies .......... 3

Free Electives .................................................. 7-11

Note: A minimum of 9 credit hours of courses from the International Block must be completed as a part of the curriculum. See CROSS-CUTTING REQUIREMENTS for specifics.

Financial Management Option

The Financial Management Option emphasizes financial management principles and skills in the context of agricultural and natural resource management. It is designed for students with interests in a wide range of areas, including finance, management, and international development. The major offers courses in finance, management, and related fields, with a strong emphasis on practical applications and real-world scenarios.

Hours

Major Requirements ............................................. 55-57
Agricultural Economics ......................................... 24
Must include at least 12 hours at the 300 level or above and at least one course designated as an international focus course.
Agricultural Sciences and Natural Resources .................. 12
CAPS electives in Agriculture (excluding AECN 201 and AECN 388) at the 300 level or above.
Agricultural Marketing Emphasis Course................. 3
AECN 401 Advanced Farm & Ranch Management ...... 3
AECN 402 International Food & Marketing Management ..... 3

Preparation for Graduate Studies

Students who intend to pursue a masters degree in the Department of Agricultural Economics should consult with their advisor to avoid any graduate entrance deficiencies.

Agricultural Economics

Head: Professor Alan Baquet, Department of Agricultural Economics, 102 Filley Hall
Professors: Alken, Azam, Conley, Fulginiti, Hannon, Johnson, Perrin, Peterson, Royer, Supalla
Associate Professors: Aiken, Mark, Schoenold, Yianakou
Coordinator for Undergraduate Research: Fulginiti

Students majoring in agricultural economics learn to apply economic and financial principles to the analysis of problems in agriculture, business, government, and other areas. The major offers students the opportunity to gain skills in planning, evaluation, and management that are useful in both private- and public-sector enterprises.

Agricultural economics majors must choose one of three available options (Farm and Ranch Management, Public Policy, or General) and must complete at least 15 credit hours of agricultural economics courses for a grade (not Pass/No Pass).

Students completing an agricultural economics major may not receive a second major in agriculture.

Core Requirements

College Integrative Course ........................................ 3
AECN 141 Agricultural Economics .......................... 2
AECN 201 Farm & Ranch Management .................. 4
AECN 325 Marketing of Agricultural Commodities .... 3
AECN 401 Advanced Farm & Ranch Management ...... 3
ECON 212 Intermediate Microeconomics ............. 3
ECON 311 Intermediate Macroeconomics ............. 3
ECON 312 Intermediate Macroeconomics ............. 3
MATH 104 Calculus for Managerial & Social Sciences ................................................. 3
MATH 105 Calculus for Managerial & Social Sciences ................................................. 3
MATH 212 Calculus ................................. 3

AECN 399 Agricultural Marketing & Environment (3 cr) or AECN 425 Agrimarketing in a Multinational Environment (3 cr)
AECN 399 Agribusiness Management
Agricultural Marketing in a Multinational Environment (3 cr)
AECN 471 Agribusiness Management
Agricultural Marketing in a Multinational Environment (3 cr)
AECN 472 Agribusiness Management
Agricultural Marketing in a Multinational Environment (3 cr)

Supporting Courses .................................................. 32
ACCT 101 Introductory Accounting I (3 cr) or
ACCT 201 Intro to Accounting II (3 cr)
MGT 331 Operations & Resources Management ........ 4-6
NUTR 301 Intro to Hospitality Management .......................... 3
NUTR 370 Food Production Management ..................... 1
ECO 311 Intermediate Microeconomics ............ 3
ECO 312 Intermediate Microeconomics ............ 3
MGT 361 Personnel/Human Resource Management .... 3
MGT 365 Manging Diversity in Organizations ......... 3
MKT 341 Marketing Management ......................... 3
MKT 347 Marketing Communication Strategies .......... 3

Free Electives .................................................. 7-11

Note: A minimum of 9 credit hours of courses from the International Block must be completed as a part of the curriculum. See CROSS-CUTTING REQUIREMENTS for specifics.

Farm and Ranch Management Option

The Farm and Ranch Management Option emphasizes financial management principles and skills in the context of agriculture and natural resource management. It is designed for students with interests in a wide range of areas, including finance, management, and international development. The major offers courses in finance, management, and related fields, with a strong emphasis on practical applications and real-world scenarios.

Hours

Major Requirements ............................................. 66-72
Agricultural Economics ......................................... 25
AECN 325 Marketing of Agricultural Commodities .... 3
AECN 401 Advanced Farm & Ranch Management ...... 3
AECN 402 International Food & Marketing Management ..... 3

Preparation for Graduate Studies

Students who intend to pursue a masters degree in the Department of Agricultural Economics should consult with their advisor to avoid any graduate entrance deficiencies.
Agricultural Sciences: 12
AECN 101 Fundamentals of Animal Biology & Industry: 4
AGRO 136 & 137 Plant Science & Lab: 4
AGRO 315 Genetics: 4
Agricultural Specialization: 16-20
Select one plant specialization:
AGRO 153 Soil Resources: 4
AGRO 204 Resource Efficient Crop Management: 3
AGRO 220 Principles of Weed Science: 3
Select two from: 6-7
AGRO 269 Principles of Soil Management: 3 cr.
AGRO 356 Soil Nutrient Relationships: 4 cr.
AGRO 405 Crop Mangement Strategies: 3 cr.
M 301 (3 cr) M 302 Irrigation Systems Management: 3 cr.
Animal Specialization: 19-20
ASCI 210 Animal Products: 3
ASCI 240 Anatomy & Physiology of Domestic Animals: 4
ASCI 250 Animal Management: 3
ASCI 320 Animal Nutrition & Feeding: 3
ASCI 325 Animal Breeding: 3
Select one from: 2-3
ASCI 450 Horse Management: 3 cr.
AGRO 561 Livestock Management of Range & Pasture: 3 cr.
Poultry: 3 cr.
AGRO 454 Swine Management: 3 cr.
AGRO 455 Beef Cattle Management: 2 cr.
AGRO 457 Feedlot Management: 2 cr.
Free Electives: 8-15
NOTE: Minimum of 9 credit hours of courses from the International Block must be completed as a part of the curriculum. See CROSS CUTTING REQUIREMENTS for specific requirements.

Public Policy Option

The Public Policy Option emphasizes the economic analysis of public policy issues related to agriculture. It prepares students for careers in public sector agencies, legislative offices, international organizations, and private sector organizations.

Major Requirements: 60
AECN 445 Agricultural & Natural Resource Policy Analysis: 3
Two policy courses selected from: 6
ECON 362 Public Finance: 3
ECON 426 Government Intervention in Markets: 3
ECON 471 Public Finance: 3
ECON 472 Fiscal & Monetary Policy: 3
NER 323 Natural Resource Policy: 3
POL 235 Public Policy Analysis: 3
Free Electives: 6
NOTE: Minimum of 9 credit hours of courses from the International Block must be completed as a part of the curriculum. See CROSS CUTTING REQUIREMENTS for specific requirements.

Agricultural Economics Minor

AECN 201 Farm & Ranch Management: 4
AECN 325 Marketing of Agricultural Commodities or AECN 225 Agribusiness & Food Products Marketing: 3
AECN 265 Environmental Economics: 3
Two additional agricultural economics courses (excluding AECN 141), with 6 hours at the 300 level or above (excluding AECN 388): 9

Community Economics and Social Dynamics Minor

Core Courses: 12
AECN 276 (SOC 241) Rural Sociology: 3
AECN 376 Rural Community Economics: 3
AECN 399 Case Studies: 3
ECON 371 Elements of Public Finance: 3
OR PUBADM 4306/4400 (U N O) Municipal Administration: 3
Additional Courses: 9
Select two from:
ANTH 212 Intro to Cultural Anthropology: 3 cr.
CRPL 300T He Community & the Future: 3 cr.
CRPL 400 Intro to Planning: 3 cr.
CRPL 450 Social Planning & Policy: 3 cr.
CRPL 480 Economic Development Planning: 3 cr.
ECON 340 Intro to Urban Regional Economics: 3 cr.
ECON 371 Elements of Public Finance: 3 cr.
PSY 288 The Psychology of Social Behavior: 3 cr.
TOTAL: 18

Preparation for Graduate Studies

Students who intend to pursue a graduate degree in agricultural economics may do so from any agricultural economics major or option. To avoid deficiencies, the undergraduate program should include MATH 106 Analytic Geometry and Calculus I and both ECON 311 Intermediate Microeconomics and ECON 312 Intermediate Microeconomics.

Courses of Instruction (AECN)

100. New Student Career Orientation (1 cr) Prereq: First semester freshman, major in agricultural economics or related discipline.
Academic success and development of leadership skills through involvement and activities on campus/time management, study skills, identity, potential internship and career opportunities.

[ES] 314 Introduction to the Economics of Agriculture (3 cr, I, II) Lec 3. Preparatory course for students who have math entrance deficiencies.
Inductive introduction to the basic principles of agricultural production economics, principles of supply and demand, resource economics, fiscal and monetary policy, marketing of agricultural products, and agricultural public policy.

201. Farm and Ranch Management (4 cr, I) Lec 4. Preparatory course for students who have math entrance deficiencies.

Agricultural marketing through the food channel from producers of agricultural commodities to processors of food products and the final consumer. Case problems dealing with various economic principles and business management concepts which are involved in the decision-making process when organizing and operating a farm/ranching operation. Includes production economics, record keeping systems, financial budgets and analyses, crop and livestock enterprise analysis, leasing arrangements, depreciation, farm business organizations, farm investment analysis, pasture/rangeland management, and production efficiency indicators.

225. Agribusiness and Food Products Marketing (M A G 225) (3 cr) Lec 3. Preparation for the agribusiness major or option. Introduction to the economic analysis of public policy issues related to agriculture. It prepares students for careers in public sector agencies, legislative offices, international organizations, and private sector organizations.

256. Legal Aspects in Agriculture (3 cr) Prereq: Sophomore standing. AECN 256 course materials are available online.

Legal aspects of agricultural taxation, contracts, property rights, buying and selling real estate, condemnation, land use regulations, leases, co-op ownership, partnerships, corporations and voluntary organizations, commercial transactions, credit, liability, insurance, estate planning, water law, and agricultural regulations. A practical exposure to the legal institutions of Nebraska.

[ES] 276 [276r]. Rural Sociology (SOC 241) (3 cr) Prereq: Sophomore standing. AECN 276 course materials are available online.
Introduction to social science principles and the role of social concepts in natural resource management. The interface of economics and ecology in the context of both private and public decision making. Application of economic principles to actual natural resource environmental issues.

301. Farm Accounting, Analysis, and Tax Management (3 cr, I) Lec 3. Preparation for the agribusiness major or option. Introduction to the economic analysis of public policy issues related to agriculture. It prepares students for careers in public sector agencies, legislative offices, international organizations, and private sector organizations.

316. Agribusiness Management (3 cr) Lec 3. Preparation for the agribusiness major or option. Introduction to the economic analysis of public policy issues related to agriculture. It prepares students for careers in public sector agencies, legislative offices, international organizations, and private sector organizations.

Business strategies for agribusiness firms under various market environments, asymmetric information problems that may lead to inefficient market outcomes. Game theory as a formal tool of studying conflict and cooperation in oligopolistic agricultural environments, asymmetric information problems that may lead to inefficient market outcomes. Game theory as a formal tool of studying conflict and cooperation in oligopolistic agricultural environments.
325. Marketing of Agricultural Commodities (MR KT 325) (3 cr) Lec 1, Lab 2, Rec 2. Prereq: AECN 141 or ECON 210 or 212. Operation and use of agricultural commodity markets and institutions as applied to enterprise and firm risk management. Cash; futures; options; option markets; basic hedging; price discovery; fundamental analysis; and risk management strategies.

[ES] [SI] 346. World Food Economics (3 cr) Lec 3. Prereq: AECN 141 or ECON 210 or 212. Description and economic evaluation of world food systems, including production, distribution, and consumption in developing and industrialized countries. Economic implications of alternative means for meeting world food needs, with emphasis on the social science aspects of the world food availability and needs, policies, and the economics of technological change.

357. Natural Resource and Environmental Law (N R EE 357) (3 cr) Lec 1. Prereq: Junior standing or permission; AGR IN R E S 103 or GEOG 181 recommended. Exploration of the nature of traditional agriculture in developing countries of Africa, Asia, and Latin America and alternative approaches to agricultural development. Explores the role of the agricultural sector in the overall development process.

[ES] [SI] 376. Rural Community Economics (3 cr) Lec 3. Prereq: AECN 141 or ECON 210 or 212. Application of economic and social principles and concepts relevant to understanding rural communities and the issues and problems they face. Public decision-making processes and the skills necessary for constructive participation in community affairs.

[ES] [SI] 388. Ethics in Agriculture and Natural Resources (ALEC 388) (3 cr) For course description, see ALEC 388.

399. Independent Study in Agricultural Economics (1-5 cr, max 5) Prereq: Permission and advance approval of independent study contract at the start of each semester. Pass/No Pass only. Individual or group projects in research, literature review, or extension of course work. Student supervision and evaluation of a departmental faculty member.

[IS] 401-801. Advanced Farm Management and Linear Programming (3 cr) Lec 1, Lab 2, Prereq: AECN 201. The role of budgeting and linear programming in analyzing farm management problems, theory of linear programming, linear program design, and analysis of linear programmed solutions to farm organization problems. Includes goal programming, multiple-criteria programming, risk programming, and financial modeling.

416. Advanced Agribusiness Management (3 cr) Lec 2, Lab 2, Prereq: AECN 316; ACC CT 201 and 202; FIN A 361 or AECN 452; MGMT 360 or 361. Captive aroma AECN 416 recommended. Agribusiness and agribusiness industry. Internal and external factors and competitive forces affecting the firm. Integration of concepts from various economic and business disciplines.

[IS] 420. International Food and Agricultural Trade (3 cr) Lec 3. Prereq: ECON 211 and either ECON 212 or AECN 141. Recommended: ECON 311 and 312. Application of basic principles of international trade and finance to food and agricultural trade. Particular attention to current policy issues in agricultural trade such as the pros and cons of regional trade blocs, alternative agricultural and trade policies, the effects of exchange rate variation on agricultural trade, and trade and environmental protection.

[IS] 425. Agricultural Marketing in a Multinational Environment (3 cr) Prereq: 9 hrs agricultural economics and or economics or permission. Systems approach to evaluating the effects of current domestic and international political and economic events on agricultural markets.

[IS] 445. Agricultural and Natural Resource Policy Analysis (N R E 445) (3 cr) Lec 3. Prereq: ECON 211; ECON 212 or AECN 141. ECON 311 and 312 recommended. Introduction to the application of economic concepts and tools to the analysis and evaluation of public policies. Economic approaches to policy evaluation derived from welfare economics. Social benefit-cost analysis described and illustrated throughout to current agricultural and natural resource policy issues.

452/852. Agricultural Finance (3 cr I II) Lec 3. Prereq: AECN 201 or 4 hrs. accounting. Principles and concepts of financial management of farm and agribusiness firms developed. Various strategies for acquiring and using capital resources by the individual firm explored. Institutions providing the sources of agricultural credit are individually studied.

[IS] 453. Agricultural and Rural Property Appraisal (3 cr I II) Lec 1, Lab 2. Prereq: AECN 141, or ECON 210 or 212. AECN 201 and AGRO 185. Recommended. Valuation of agricultural and rural real estate traced from the underlying theory of value through full development of principles, practices, and factors used by the appraisal profession to estimate value. The income approach, the market data approach, and the cost approach to property value development. A appraisal procedure analyzed for such special purposes as farm loans, tax assessment, and condemnation.

456/856. Environmental Law (N R EE 456) (3 cr I II) Prereq: Junior standing. AECN/ N R E S 357 recommended. Fossil fuel, carbon, and trade. Public decision-making principles, concepts, and tools; evaluation of specific environmental protection laws, including solid and hazardous waste control; endangered species and habitat protection; land use regulation; and state and federal water rights law.

367. Agricultural Development in Developing Countries (3 cr I II) Lec 3. Prereq: AECN 141 or ECON 210 or 212. Exploration of the nature of traditional agriculture in developing countries of Africa, Asia, and Latin America and alternative approaches to agricultural development. Explores the role of the agricultural sector in the overall development process.

812. Organization and Performance of Agricultural Firms (3 cr I II) Lec 3. Prereq: AECN 141 or ECON 210 or 212 or equivalent. Financial management of farm and agribusiness firms developed. Various strategies for acquiring and using capital resources by the individual firm explored. Institutions providing the sources of agricultural credit are individually studied.

827. Static and Dynamic Optimization Methods (2 cr I II) Prereq: AECN/ECON 813 or permission. A. Static Optimization with Mathematical Programming. B. Dynamic Optimization

812. Economics of Agricultural Production (3 cr I II) Lec 3. Prereq: AECN 201 or 203; MATH 106.


873. Microeconomic Models and Applications (ECON *873) (3 cr) Prereq: ECON 211, 212, and 215. This course is intended for MA or PhD students and others who do not plan to proceed to PhD studies.


883. Ecological Economics (N R E S 883) (3 cr) Prereq: AECN 141 or ECON 212 or equivalent. Graduates interested in research and teaching in ecological sustainability are encouraged to enroll with the course of study customized to individual needs.

889. Law and Natural Resources (LAW 693) (3 cr I II) Lec 3.

*896. Special Topics in Agricultural Economics (1-6 cr per sem, max 6 cr) Prereq: 12 hrs agricultural economics or closely related areas and permission.

898. Public Land and Natural Resources Law (LAW 696) (3 cr I I II) Lec 1.

899. Masters Thesis (6-10 cr)

Refer to the Graduate Bulletin for 900-level courses.

Agricultural Education

Head: Professor Daniel Wheeler, Department of Agricultural Leadership, Education and Communication; 300 Agricultural Hall

Professors: Barret, Blezek, Etting, Fritz, H usmann, R andall

Associate Professors: Barbuto, Bélu, King

Assistant Professors: Ellis, M akin

Senior Lecturer: Moody

A major in agricultural education is designed to prepare students with the necessary communication and interpersonal skills, leadership training, and knowledge of technical agriculture to be a teacher of agricultural education at the secondary or postsecondary level, or accept employment in agribusiness leading to positions in training and development. The major provides good preparation for work in agricultural extension, positions in foreign service, and agricultural educators in business and industry. Any students graduate with a dual major in agricultural education and another major in the College agricultural education majors may elect to follow the teaching option or the agricultural leadership option.

Students desiring to be admitted to the Teacher Education program in the Department of Agricultural Leadership, Education and Communication should apply as early as possible after the completion of 315 or credit hours (at least one year before they plan to student teach). Student teaching is conducted off-campus through university-approved agreements with cooperating secondary schools. Plans for student teaching must be made early.
Major Requirements

Teaching Option

College Integrative Courses ........................................... 15
AGRN R/ NRES 103 Food, Agricultural & Natural Resources Systems .................. 3
Capstone Course ALEC 431* ............................................. 12
Mathematics and Analytical Skills (beyond college algebra) .................. 5
Recommended: MATH 102 Trigonometry .................. 2
EDPS 459 Statistical Methods or STAT 218 Intro to Statistics .................. 3
Communications ............................................................ 9
Written: Select from ENGL 150, 151, or 254; or JGEN 200, 300; or JGEN 206, 208, 311
Oral: Select from ENGL 150, 151, or 254; or JGEN 200, 301, or 311
Comm/Int/Personal Skills ALEC 102* .................................. 3
Natural Sciences .......................................................... 12-13
Biology: CHEM 104; 105; 106, or 107
Chemistry: CHEM 109 or 110
Physics: PHY 141, 151, or MSYM 109
*Students pursuing an agriculture biology endorsement must complete CHEM 109.

Humanities and Social Sciences ..................................... 21
AECN 141 Intro to the Economics of Agriculture ....................... 3
EDPS 457 Learning & Motivation Principles for Secondary Teaching .................. 3
SOC 111, 112, or 211; or SOCI 211; or ECON 101; or TEAC 330 M Multicultural Education .................. 3
Essential Studies ................................. 12
Select one 3-credit course in each of the following:
CASN R: Essential Studies Categories (For the list of ES/IS courses see "Essential Studies Program List" on page 377.)
Area C: Human Behavior, Culture & Social Organization ................................. 3
Area E: Historical Studies ................................. 3
Area F: Humanities ................................. 3
Area G: Arts ................................. 3
NOTE: One 3-credit course with an international focus is to be selected from the lists under "Interna
tional Focus Requirement" on page 47.

Agricultural and Natural Resources Courses .................................. 36
A minimum of 15 hours completed at the 200 level or above and a minimum of 9 hours completed at the 300 level or above. Students must have a course in four CASNR departments or program areas. A course may be used to fulfill more than one category; however, the hours will only count one toward the 36-hour agricultural science requirement.
Research & Applied Technology ........................................... 3
Select from AGRN R, AGRO 315, 431, or FDST 131

Supporting Botany Courses ............................................... 3
BIOS 105 General Botany; AGRN R 131, 232; AGRO 204 Field Crop Plants; or AGRO 240 Forage Crop & Range Mgt;
Horticulture Science AGRN R 131, 132; AGRO 131, 232; AGRO 240 Forage Crop & Range Mgt; or HORT 130 Intro to Horticulture Science

Cell Biology/Genetics

BIOT 102 Cell Structure & Function .................................. 4
ECology

AGRN R/ NRES 103 Food, Agricultural & Natural Resources Systems .................. 3
NRES 211W Introduction to Ecology

Evolutions

BIO 107/101 General Biology and lab; AGRN R 315, 351, 435
Genetics

AGRO 315 Genetics

Biological Science

CHEM 105, 109

Microbiology

FDST 312 Food Safety & Sanitation

Zoology

NRES 255Z Animal Physiology & Homeostasis

Agricultural and Natural Resources Courses .................................. 36
A minimum of 15 hours completed at the 200 level or above and a minimum of 9 hours completed at the 300 level or above. Students must have a course in four CASNR departments or program areas. A course may be used to fulfill more than one category; however, the hours will only count one toward the 36-hour agricultural science requirement.
Research & Applied Technology ........................................... 3
Select from AGRN R, AGRO 315, 431, or FDST 131

Policy

Select from AGRN R 201, 325, ASCI 150, 250, 320, 330, 450, 451, 452, 453, 454, 455, 457; AGRO 204, 205, 405; or HORT 325

Production

Select from AGRO 131 & 132; ASCI 100 or 150 or HORT 130, 232, 260, 325, 327, 350, or 370

Natural Resources

Select from AECN 265; AGRO 153, 366; BIOS 232; ENCI 109; NRES 211, 220, 311

M Echanized System

Select from M SYM 223, 232, 312; TEAC 104, 203, 205, 242

Food System

AECN 225; ASCI 210; or FDST 101, 131

Leadership and Education ............................................. 26
ALEC 134 Agricultural Education, Journalism & Leadership Careers

ALEC 135 Early Field Experience in Agricultural Education, Leadership & Communication

ALEC 202 Leadership Development in Small Groups & Teams

ALEC 234 Planning Leadership & Experience Programs

ALEC 305 Presentation Skills for Agricultural Audiences

ALEC 308 Lab Instruction & Management

ALEC 405 Teaching Methods

ALEC 405L Methods Lab

ALEC 413 Program Development

ALEC 494 Seminar in Agricultural Education

SPED 401B Accommodating Exceptional Learners

Supporting Laboratory Based Courses (12 hours)

Chemistry: CHEM 109
Physics: PHY 141, 151, or M SYM 109
Earth Science: AGRN R 153, Soil Science

Biology Courses (24 hours)

Select at least one of the suggested courses from each of the following categories. At least one course must be taken at the 200 level or higher. Other courses may be negotiated with your academic adviser.

Botany

BIOS 109 General Botany
AGRN R 131 & 132 Crop Science & Lab
AGRN R 204 Field Crop Plants
AGRN R 240 Forage Crop & Range Mgt
HORT 130 Intro to Horticulture Science

Cell Biology/Genomics

BIOT 102 Cell Structure & Function

Evolution

BIO 107/101 General Biology and lab

Genetics

AGRN R 315 Genetics
Cooperative Extension Minor

A minor program in cooperative extension is available through the Department of Agricultural Leadership, Education, and Communication. To obtain this minor, students must have completed at least three courses from the following groups listed below:

- Required:
  - ALEC 302 Dynamics of Effective Leadership in Organizations (3 cr)
  - ALEC 305 Presentation Strategies for Agricultural Audiences (3 cr)
  - ALEC 337 Instructional Internship in Extension Education (3 cr)

- Technical Preparation:
  - Must complete at least three courses from the four groups listed below:
    - Group 1: BIO S 207 Ecology & Evolution (4 cr)
    - Group 2: NRES 311 Intro to Conservation Biology (3 cr)
    - Group 3: NRES 311 Wildlife Ecology & Management (3 cr)
    - Group 4: ANTH 212 Intro to Cultural Anthropology (3 cr)

- Environmental Communications Minor

A minor program in environmental communications is available through the Department of Agricultural Leadership, Education, and Communication in cooperation with the School of Natural Resources. The minor is designed to provide skills in understanding and working knowledge of the interactions that do and can exist between the agricultural sciences, natural resources, and the environment. The ability to communicate effectively with the public about these relevant issues, in articulate, analytical, and substantive ways, is becoming an increasingly valued and necessary skill. Self-evident to many groups, including policy makers, legislators, regulators, advocates, business, and the general public. The 12-hour minor is comprised of the following courses:

Environmental Education Minor

A minor in environmental education is designed to provide additional qualifications for students interested in pursuing a career in the field of environmental and natural resources education. Courses selected for the minor's curriculum were chosen for their holistic perspective and interdisciplinary approach to environmental and natural resources studies. A number of the courses focus regionally on the environment of the Great Plains.

The 18-hour minor includes lower and upper division courses:

- Required Professional Education:
  - ALEC 305 Presentation Strategies for Agricultural Audiences (3 cr)
  - ALEC 413 Program Development (3 cr)

- Technical Preparation:
  - Must complete at least three courses from the four groups listed below:
    - Group 1: BIOS 207 Ecology & Evolution (4 cr)
    - Group 2: NRES 311 Intro to Conservation Biology (3 cr)
    - Group 3: NRES 311 Wildlife Ecology & Management (3 cr)
    - Group 4: ANTH 212 Intro to Cultural Anthropology (3 cr)

Leadership and Communication Minor

An 18-hour minor in leadership and communication is available through the Department of Agricultural Leadership, Education, and Communication. Combining a leadership and communication minor with any CASNR major strengthens students’ employability base by making them competent technical professionals.
234. Planning Leadership and Experience Programs (3 cr I, II) Lec, lab. Prereq: Sophomore standing and ALEC 314 or 135, 136. Theory of experiential education to middle school and secondary agricultural education programs, especially leadership and career development. Supervised Agricultural Experience (SAE), Young Adult Farmer, FFA, and alumni activities, appropriate to the community, school, and student needs using electronic technology in learning how to teach Nebraska’s agricultural education financial management system.


305. Presentation Strategies for Agricultural Audiences (3 cr I, II) Lec, act. Prereq: 6 hrs mechanized systems management; advanced standing. Student demonstration and presentation prepared, presented, and evaluated in school laboratory settings. Variety of laboratory settings, including agricultural mechanics, greenhouse, soils, etc.

327. Introduction to Human Relations in Education (EDPS 327) (3 cr) Lec. For course description, see EDPS 327.

330. Foundations of Cooperative Extension (3 cr I, II) Lec. Prereq: Sophomore standing. Credit toward the degree may be earned in one of: ALEC 233 or ALEC 330. Cooperative extension in a variety of settings and its role in the land-grant mission. Processes for developing and conducting need-driven, research-based, extension programs in school laboratory settings. Various of laboratory settings, including agricultural mechanics, greenhouse, soils, etc.

332. Supervised Field Experiences (2-5 cr, max 30, II, III) Lab. Prereq.: Junior or senior by application. Field course of supervised observation and participation with various phases of agricultural education and/or agriculture.

337. Instructional Internship in Leadership Development (1-3 cr I, II, III) Lec. Prereq: ALEC 495A. Structured professional and personal development experiences in small group facilitation and instructional assistance in leadership development courses.

388. Ethics in Agriculture and Natural Resources (AECN 388) (3 cr) Lec. Ethics focusing on agricultural and natural resource issues. Using case studies from the professional workplace and contemporary society, develops intellectual skills necessary to reflect critically on ethical issues and apply appropriate conceptual tools for resolution of issues arising from conflicting ethical and value systems.

397. Special Topics (1-3 cr, max 30, I, II, III) Lec. Prereq: Permission. Readings in depth discussions; analysis of current theory, issues, problems, research and practice in leadership education, and/or communication. Topics vary.

399. Independent Study in Communications (1-3 cr, max 12) Prereq: Permission and advance approval of plan of work. Individual or group projects in research, literature review, or extension of course work under supervision and evaluation of a departmental faculty member.

405. Methods of Instruction for Secondary Agricultural Education (3 cr I) Prereq: Senior standing and 3 hrs educational psychology. Instructional delivery of a secondary agricultural education program in the public school system. Organizing instructional content, implementing instructional methods, methods of formal instructional delivery, student behavior management, instructing the handicapped and disadvantaged student. Considerable time is spent on undergraduates demonstrating instructional delivery.

405L. Methods of Instruction Laboratory Education (1 cr) Prereq: Advance to the teaching program in agricultural education and parallel registration in ALEC 405. Laboratory exercises that complement material covered in ALEC 405. Preparation and practice teaching at either the middle or secondary school level.

407. Supervisory Leadership (CYAF *807) (3 cr) Lec 3. Prereq: ALEC 302. Knowledge and theoretical basis for practices supervisors in a changing workplace where increasing responsibilities due to the flattening or organizational structures, solving supervisory challenges in organizing and planning, performance appraisal, and leading a diverse workforce.

410/510. Environmental Leadership (NRES 410/510) (3 cr) Lec 3. Major leaders in conservation and ecology that emphasize agricultural and cultural issues and relationships with the environment.

412. Multimedia Applications for Education and Training (NUTR *812) (3 cr) Lec, lab. Practical applications in developing and evaluating multimedia resources for students. Surveys new applications, creates and develops various instructional materials, and reviews current practice to gain relevant theory. U.S. current software packages to develop materials for various audiences.

413. Program Development (3 cr I, II, III) Lec, rct. Prereq: Junior standing and acceptance into the student teaching program in agricultural education. Planning, marketing, and managing formal and informal educational programs for youth and adults. The learning process applies to leaders and learners. Building collaborative relationships.


420. Improvement of Instructional Programs for Post-High-School Occupational Education (3-9 cr, max 9) Designing new instructional programs, expanding the impact of student behavioral objectives, and evaluating the total instructional program.

431. Student Teaching (3-12 cr, max 23) Prereq: 3 hrs educational psychology, passing score on the Preprofessional Skill Tests (PPST) and permission. Placement arranged by the department. Seven to eighteen weeks of on-campus student teaching. Students receive guided participation in various phases of a school agricultural education program.

433. Planning and Implementation of Cooperative Extension Programs for Domestic and Foreign Audiences (3 cr I, II, III) Lec. Prereq: Senior or graduate standing. The cooperative extension service as an educational institution and its involvement of local people in the program development and identification of problems and design of long-range plans, annual plans, community development, and plans for single events applicable to domestic and foreign extension programs.

466/566. Leadership and Diversity in Organizations and Communities (3 cr) Lec 3. Leadership theories and their applications to human diversity in organizations and communities with special emphasis on rural environments.

477/577. Leadership and Motivation (3 cr) Lec 3. Classic and contemporary motivational theories applied to leadership in organizations and communities.

480. Dynamics of Agricultural Environmental Journalism (3 cr I, II) Prereq: Junior standing. Roles of the professional agricultural journalist and/or communicator in today’s society. Synthesis of agricultural and natural resources sciences and journalism.

488. Leadership, Power and Influence (3 cr) Lec 3. Organizational influence processes, power, and politics in organizations and communities.


495A. Internship in Leadership Development (2-5 cr, max 12) Prereq: Junior standing and ALEC 302, agricultural education major, and permission. An agricultural education major must take ALEC 495A for Pass/No Pass. A maximum of 12 credit hours may be taken.

495B. Internship in Agricultural Journalism (3 cr I, II, III) Prereq: Junior standing, agricultural journalism major, and permission. ALEC 495B is taken the second semester of the junior year or in the summer following the junior year. Department approval is required. ALEC 495B cannot be taken Pass/No Pass. Internship in a selected agricultural industry, business, or agency. Collaborative development of a training program and leadership activities.

594h. Honors Thesis (3-6 cr, max 6) Prereq: Admission to the University Honors Program and permission, AGR 129H recommended. Conduct a scholarly research project and write a University Honors Program or undergraduate thesis.

801. Theoretical Foundations of Leadership (3 cr) Lec. Theories of leadership in organizations.

802. Developing Leadership Capacity in Organizations and Communities (3 cr) Prereq: ALEC 401 or equivalent.

804. Problems of Beginning Agriculture Scientists (2-5 cr I, II) Lec. act.

805. Advanced Teaching Strategies (TEAC 805) (1-3 cr) Lec. act.

806. Introduction to Distance Education (3 cr I, II) Lec.

807. Supervisory Leadership (CYAF 807) (3 cr I) Lec lab. Prereq: ALEC 801 or permission.

815. Development and Organization of Vocational Education Environments (3 cr I, II, III) Lec.

826. Program Evaluation (3 cr)

845. Research in Leadership Education (CYAF 845) (1-3 cr II, III) Lec.

890. Workshop Seminars (1-12 cr, I, II, III)

893. Technical Agricultural Workshops (1-12 cr I, II, III) Prereq: Permission.

897. Special Topics (1-3 cr I, II, III) Lec, Fld.

899. Masters Thesis (6-10 cr)

Refer to the Graduate Bulletin for 900-level courses.

Agricultural Engineering

Head: Professor Ron Yoder, 223 Chace Hall
Associate Professors: Dvorak, Franti, H. Ay, Kocher, Koelsch, Kranz, Volst, Yonts
Assistant Professors: A. Damchuk, Bafroff, S. Irmak, Istanbulbouli, Stowell, Subbiah

The agricultural engineering major is offered through the College of Engineering. For requirements for the Bachelor’s Degree in Science in Agricultural Engineering, refer to page 294.

Agricultural Journalism

Coordinator: Assistant Professor Jason D. Ellis, Department of Agricultural Leadership, Education, and Communication; 300 Agricultural Hall
Agricultural Journalism/College of Agricultural Sciences and Natural Resources 57

This major is designed to prepare students for careers in agricultural and natural resources journalism and public relations. The major gives the student a broad education in agricultural sciences and natural resources combined with journalism and leadership skills. Graduates are also qualified to pursue careers in journalism and public relations that do not deal with agriculture or natural resources.

Students will complete the Advertising, Broadcasting, or News Editorial sequence in Journalism and the Agricultural Journalism core. Students may select one of three areas of emphasis within the agricultural journalism major: 1) Agricultural and Natural Resources Policy, 2) Production Agriculture, or 3) Agricultural and Natural Resources Public Relations.

The general education requirements give the student a well-rounded introduction to science, communications, humanities and social sciences. The Agricultural Journalism core provides an introduction to the major content areas a journalist/public relations professional should know including leadership development. The journalism core is offered through the College of Journalism and Mass Communications, which is an accredited program.

Individuals in this major must maintain an overall grade point average (GPA) of 2.75 or above. All courses are to be taken for a grade rather than Pass No Pass.

College Core Requirements .............................................. 43

College Integrative Courses.............................................. 6

AGR IV NRES 103 Food, Agricultural & Natural Resource Systems.......................... 3
ALEC 480 Dynamics of Agricultural Journalism .................... 3

Mathematics and Analytical Skills (beyond college algebra).......................... 5
NOTE: Proficiency at the college algebra level must be demonstrated by a placement exam or through course work. If MATH 103 College Algebra and Trigonometry is taken, only 2 credit hours can be counted toward this requirement.

Communications......................................................... 6

Written communications............................... 3

JOUR 102 (3 cr)

Communications & Interpersonal Skills electives............................... 3

Select from: ALEC 102; ENGL 101, 150, 151, 252, 253, 254; JGEN 120; COMM 109, 209, 212, 311

Natural Sciences....................................................... 8

Select two from:

BIO 101 & 101L General Biology & General Biology Lab ...................... 4
CHEM 109 General Chemistry I ........................................ 4

PHYS 141 General Physics (5 cr) or PHYS 151 General Physics (4 cr)

or 211 General Physics (4 cr) or MATH 109 Physical Principles in Agriculture (4 cr) ....................................................... 4-5

Humanities and Social Sciences ........................................ 18

ECON 211 or 212 or AECN 141 ........................................... 3

Recommended and AECN 141 Intro to the Economics of Agriculture

Essential Studies.................................................... 15

JOUR 487 Mass Media & Society

Select one 3-credit course in each of the following four CASNR Essential Studies categories (For the list of ES/IS courses see “Essential Studies Program List” on page 377.)

STL, H, History

F, Humanities

G, Arts

H, Race, Ethnicity & Gender

NOTE: One 3-credit course with an international focus is to be selected from the lists under “International Agriculture and Natural Resources Minor” on page 46 which counts towards CASNR ES/IS requirements.

Journalism Courses

See the College of Journalism and Mass Communications Department for specific course of study for advertising, broadcasting or news editorial.

NOTE: Journalism students take JOUR 102 485 and 487 (total 9 hr) as part of the CASNR core courses.

Requirements for the Major in Advertising

The additional courses required for a 38-hour major in the advertising department are as follows:

JOUR 101, 142, 204, 486
ADVT 332, 333, 432, 460, 489; and 6 hrs of journalism electives

Requirements for the Major in Broadcast News

The additional courses required for a 41-hour major in the broadcasting department are as follows:

JOUR 101, 142, 203, 204, 350, 486
BRDC 227, 228, 359, 360, 362; and 6 hrs of journalism electives

Requirements for the Major in Broadcast Production

The additional courses required for a 41-hour major in the broadcasting department are as follows:

JOUR 101, 142, 203, 204, 350, 486
NEWS 202
BRDC 369, 370, 372; and 6 hrs of journalism electives

Requirements for the Major in News Editorial

The additional courses required for a 41-hour major in the news editorial department are as follows:

JOUR 101, 142, 203, 204, 350, 486
NEWS 201, 304, 401, 498, and one of the following NRES 303, 304, 401, 498, or JOUR 444; and 3 hrs of journalism electives

Agricultural Leadership Courses........................................ 9

Required Core Courses

ALEC 202 Leadership Development in Small Groups or 302 Dynamics of Effective Leadership in Organizations or 305 Presentation Strategies for Agricultural Audiences

JOUR 134 Intro to Agricultural Education

ALEC 135 Early Field Experience

ALEC 495 Research Internship in Agricultural Journalism

Agricultural Science Courses........................................ 19

G can have only 9 hrs at the 100 level.
Animal Science.................................................... 6

Select from:

ASCI 100 Fundamentals of Animal Biology & Industry

ASCI 150 Animal Production Skills (2 cr)

ASCI 210 Animal Products (3 cr)

ASCI 240 Anatomy and Physiology of Domestic Animals

ASCI 250 Animal Nutrition and Feeding

ASCI 230 Animal Breeding (4 cr)

ASCI 370 Animal Welfare (3 cr)

BIOS 112 & 112L Introduction to Zoology (4 cr)

Plant Science.......................................................... 7

Select from:

AGRO 131 Plant Science & 132 Plant Science Lab (4 cr)
AGRO 153 (HORT/SOIL 153) Soil Resources (4 cr)
AGRO 204 Resource Efficient Crop Management (3 cr)
AGRO 240 Forestry Crop & Range Management (4 cr)
AGRO 269 Principles of Soil Management (3 cr)
AGRO 361 Soils Environment & Water Quality (3 cr)
AGRO 405 Crop Management Strategies (3 cr)
AGRO 445 Livestock Management on Rangeland & Pasture (3 cr)

NRES 109 Botany (4 cr)

Natural Resources............................................... 6

Select from:

NRES 211 Intro to Conservation Biology (3 cr)
NRES 311 Wildlife Ecology & Management (3 cr)
NRES 423 Integrated Resource Management (3 cr)
NRES 424 Forest Ecology (4 cr)

Options

Student must select one of the following options............. 15

Agricultural and Natural Resources Policy Option

The Agricultural and Natural Resources Option is for students who are interested in the policies and issues surrounding agriculture, natural resources and the environment. These students will find careers in mass media, nonprofit and governmental agencies that focus on policies and issues.

AECN 265 Resource & Environmental Economics ........................................ 3
AECN 357 Natural Resources & Environmental Law ........................................ 3
AECN 457 Water & Natural Resources Law ........................................ 3
NRES 323 Natural Resources Policy ........................................ 3
Free Electives (CASNR) ............................................. 3

Production Agriculture Option

Students in the Agricultural Production Option will focus on the food system. They will be prepared for careers in mass media, agricultural industry, nonprofit and governmental agencies that deal with the research and production of the food supply.

AGRO 315 Genetics ............................................. 4

Select a 300- or above course from each of the following areas...................... 12

Animal Science.................................................... 3

Plant Science.................................................... 3

Agricultural Economics ............................................. 3

Electives from CASNR Courses ............................................. 3

Agricultural and Natural Resources Public Relations Option

The Agricultural and Natural Resources Public Relations Option prepares students to have careers promoting agriculture, agricultural products, natural resources and the environment. Careers can be found in mass media, public relations, advertising firms and corporations handling agricultural, natural resources and environmental accounts. Careers also can be found in nonprofit organizations and governmental agencies.

ADVT 332 Principles of Promotional Writing* ............. 3

ADVT 432 Strategic Communications Research & Strategy* ............................................. 3
ADVT 450 Public Relations Theory, Strategy & Management ........................................ 3
ADVT 451 Advertising & Public Relations Techniques .................................................. 3
ADVT 459 Advertising & Public Relations in the Electronic Media ................................ 3
*Students in the advertising major will take 6 elective hours in broadcasting and
news-editorial to complete the advertising major requirements.

Free Electives .......................................... 9-13
Total Requirements for Graduation .......... 128

Agronomy

Head: Professor Mark Lagrimini, Department of Agronomy and Horticulture, 279 Plant Sciences Hall

Professors: Arkebauer, Baenziger, Casman, Francis, Gedro, Lee, Moe, M. Reza, M. asgarian, M. C. Cash, Schacht, Specht, Stawick, Stubbendieck, Waldner, Walters

Associate Professors: Clemente, Drijber, Dweikat, Elthon, Lindquist, M. ano, R. ussell

Senior Lecturer: and ninth

Lecturer: K. ketler

The field of agronomy encompasses the sciences related to crops and soils. It includes crop production, crop breeding, seed production, weeds, and plant disease management, soil management, pest control, and soil conservation. Students should choose a specific option in a career related to crop production, such as seed and grain, agriculture consulting, farm management, fertilizer and agricultural chemicals, or to government or foreign assignments. Those interested in a career in agricultural science or a soil science major should see "Grassland Ecology and Mangement" on page 96 or "Environmental Restoration Science M 400" on page 96.

Agronomy Major

The agronomy major is designed for students who are interested in plants and soils as they relate to economic crop production and environmental protection. M ore specifically, four career areas are emphasized for students:

1. Students who wish to be directly involved in crop production through farm management, crop advising, or merchandising of farm crops and supplies.
2. Students who wish to be involved in an agricultural business dealing with agricultural crops and supplies.
3. Students who desire a career in agricultural science and biotechnology, and thus need an undergraduate curriculum that will prepare them for the postgraduate training that is usually required for such careers.
4. Students who are interested in environmental quality related to the production of agricultural crops.

Major Requirements

The following basic courses are required for the agronomy major. In addition, students must select and meet the requirements of one of the options, depending upon their particular needs and interests. In some cases, students might choose to meet the requirements of a specialization within an option, but that is not required.

College Integrative Course ........................................ 3
AGRO (N R E 303 Food Agronomy ............................................... 3
        Resource Systems .................................................... 3
Agronomy .................................................. 15-19
AGRO 131 Plant Science ........................................ 3
AGRO 132 Plant Science Lab ........................................ 1
AGRO 153 Soil Resources ........................................... 3
AGRO 315 Genetics .................................................... 4
AGRO 201 Career & Internship Preparation ............... 1
AGRO 295 Internship in Agronomy ......................... 1-5
AGRO 401 Professional Development for Agronomists ........................................ 1
Mathematics and Analytical Skills
(beyond college algebra) ........................................ 5
Include: mathematics and statistics
Communications .................................................... 9
Written Communication ........................................... 3
Select from: ENGL 150, 151, 254; JGEN 120, 200, 300
Oral Communication ................................................... 3
Select from: COMM 109, 209, 212, 311
Communication and Interpersonal Skills .................. 3
Select from: ENGL 101, 150, 151, 252, 253, 254; ALEC 102; JGEN 120, 200, 300; COMM 109, 209, 212, 311 (recommended for Business Option)
Natural Sciences ............................................. 12-13
BIO 101 & 101L Intro to Biology & Lab ...................... 4
BIO 109 Botany ..................................................... 4
MSY M 109 or PHYS 141 or 151 4-5
See option requirements for chemistry course(s).
Humanities and Social Sciences ......................... 18
ECON 211 or 212 or AECN 141 15
Essential Studies ................................................... 1
Select one or both of the following:
CASN R E Natural & Environmental Studies Program List on page 377.
Area C. Human Behavior, Culture & Social Organization
Area E. Historical Studies
Area F. Humanities (AECN 388 recommended)
Area G. Arts
Area H. Race, Ethnicity & Gender (M NGT 361 recommended for Business Option, GED 374, 378 or M NGT 361 recommended for all other options)
NOTE: One 3-credit course with an international focus is to be selected from the lists under "International Agriculture and Natural Resources M inor" on page 48 which counts towards CASNR E’S I/S requirements.
Total Major Requirements ............................... 62-67
Option Requirements and Free Electives 61-66
Total Requirements for Graduation .......... 128

Options

Integrated Crop Management Option

The integrated crop management option is designed for students who plan to pursue a career in crop consulting or crop technical services. Employment opportunities exist with crop consulting firms, farm chemical companies, and seed companies.

College Capstone Course ........................................... 3
Select one
AGRO 405 Crop Management Strategies .................. 3
AGRO 435 Agroecology ............................................. 3
AGRO 445 Livestock Management on Range & Pasture ........................................... 3

Agronomy ............................................. 14
AGRO 204 Resource Efficient Crop Management .... 3
AGRO 240 Forage Crop & Range Management ........ 4
AGRO 269 Principles of Soil Management .............. 3
AGRO 366 Soil Nutrient Relationships ..................... 4
Crop Protection ............................................. 9
AGRO 220 Principles of Weed Science ..................... 3
ENTO 306 Plant Management of Field Crop Insects .. 3
PLPT 389 Introductory Plant Pathology .................. 3

Natural Sciences ............................................. 15-16
CHEM 105 Chemistry in Context I ....................... 4
CHEM 106 Chemistry in Context II ...................... 4
Select two courses from the following list ............... 3-7
AGRO 325 Introductory Plant Physiology .............. 4
BIO 207 Ecology & Evolution 4
BIO 220 Principles of Ecology 3
BIO 374 Economic Botany 4
Business and Economics .......................... 6-7
AECN 216 Agricultural Business Management .......... 3
AECN 306 Survey of Accounting 4
ECON 265 Resource & Environmental Economics 3
AECN 325 Marketing Agricultural Commodities 3
AECN 357 Natural Resource & Environmental Law 3
Electives ..................................................... 6
A minimum of 6 credit hours must be taken from the following list. Additional and other courses listed above can also be used to meet the requirements.
AGRO 370 Biological Fungi (3 cr)
AGRO 408 Microbiology: The Biological Environment (3 cr)
AGRO 431 Site-Specific Crop Management (3 cr)
AGRO 437 Animal, Food & Industrial Uses of Grain (2 cr) and 438 Producing Grain for Animal & Industrial Uses of Grain (3 cr)
AECN 202 Leadership Development in Small Groups & Teams (3 cr)
ENTO 406 Insect Ecology (3 cr)
M NGT 354 Soil Conservation & Watershed Management (3 cr)
M NGT 452 Irrigation Systems Management (3 cr)
Free Electives ................................................... 6-14
Total Option Requirements ......................... 61-66

Business Option

The business option prepares students for management, sales, and public relations positions in agriculture and related industries and in finance, credit, and marketing organizations serving agriculture. Employment opportunities exist with fertilizer, seed, grain, and similar industries as well as in credit, banking, farm management, and regulatory companies or agencies.

College Capstone Course ........................................... 3
Select one
AGRO 405 Crop Management Strategies .................. 3
AGRO 435 Agroecology ............................................. 3
Any AECN Capstone Course ............................. 3
Agronomy ............................................. 6-8
AGRO 204 Resource Efficient Crop Management (3 cr) or AGRO 240 Forage Crop & Range Management (4 cr) ......................... 3-4
AGRO 269 Principles of Soil Management (3 cr) or AGRO 366 Soil Nutrient Relationships (4 cr) ........................................ 3-4
Chemistry ............................................. 4
CHEM 105 Chemistry in Context I ....................... 4
Business and Economics .................................. 13-15
Accounting ............................................. 4-6
Select one
ACCT 201 & 202 Introductory Accounting I & II ........ 6
ACCT 306 Survey of Accounting 4
Selected Business Courses ............................ 9
Include at least one course from each of the following three areas
Business Law
AECN 256 Legal Aspects in Agriculture ............ 3
AECN 357 Natural Resource & Environmental Law .... 3
AECN 457 Water Law 3

Agronomy/College of Agricultural Sciences and Natural Resources

Finances

- AECN 452 Agricultural Finance......................................................3
- AECN 461 M. & O. in the Financial System.................................3
- FINA 361 Finance.................................................................3

Marketing

- AECN 225 Agris business & Food Products Marketing......................3
- AECN 325 M. of Agricultural Commodities..................................3
- AECN 425 A. & M. in Agricultural Marketing.............................3

Business and Economics Electives

- AECN 305 Presentation Strategies for Agricultural Audiences........3
- AECN 306 Dynamics of Effective Leadership................................3
- AECN 307 Presentation Strategies for Agricultural Audiences........3

Recommended courses for students interested in a career in sales:
- ALEC 202 Leadership & Development in Small Groups & Teams........3
- ALEC 320 Dynamics of Effective Leadership................................3

Recommended courses for students interested in careers in:
- AECN 316 A. & M. in Agricultural Marketing.............................3
- MNGT 360 M. & O. in the Financial System.................................3

- MNGT 361 Personnel/ Human Resource Management (E-4 Area H)......3

Recommended courses for students interested in a career in international agriculture:
- AECN 346 World Food Economics.............................................3
- AECN 367 Agricultural Development in Developing Countries.........3

- AECN 420 International Food & Agricultural Trade........................3

Free Electives..................................................................................3

Total Option Requirements..........................................................61-66

Crop Production Option

The crop production option is designed for students who plan to be directly involved in a farming operation or plan to manage a farming operation.

[Recommended that participation in returning to the Farm Program be the preferred way to meet internship requirement.]

College Capstone Course...............................................................3
- Select one:
  - AGR 405 Crop M. Management.................................................3
  - AGR 435 Agroecology..............................................................3
  - AGR 445 Livestock M. on Range & Pasture.................................3

Agronomy

- AGR 204 Resource Efficient Crop M. Management..........................3
- AGR 240 Forage Crop & Range M. Management............................4
- AGR 269 Principles of Soil M. Management.................................3
- AGR 391 Site Specific Crop M. Management.................................3
- AGR 396 Soil N. Util. Relationships............................................4
- AGR 431 Site Specific Crop M. Management.................................3
- AGR 437 Animal, Food & Industrial Uses of Grain.........................3
- AGR 438 Producing Grain for Animal, Food & Industrial Uses........1

Crop Protection

- AGR 200 Crop Protection..........................................................3
- AGR 301 Crop Chemicals & Pesticide Management..........................3
- ENTO 308 M. of Field Crop Insects.............................................3
- PLPT 369 Introductory Plant Pathology........................................3

Chemistry

- CHEM 202 Principles of Chemistry in Context I...........................4
- CHEM 203 Principles of Chemistry in Context II..........................4

Business and Economics

- ACCCT 306 Survey of Accounting (4 cr)
- ACCCT 202 & 202 Introductory Accounting I (1 cr) & II (6 cr)........4-6

- AECN 201 Farm & Ranch M. Management....................................4
- AECN 301 Farm Accounting, Analysis & Tax M. Management.........4
- AECN 325 M. of Agricultural Commodities.................................3

Free Electives..................................................................................10-16

Suggested courses:
- ASCI 250 Animal M. Management................................................3
- ASCI 253 Animal M. Management................................................3
- ASCI 265 Resource & Environmental Economics........................3

Research Careers Option

The research careers option emphasizes research basics as they relate to agricultural science and is designed for students interested in graduate study. This option prepares students for graduate study as the first step toward preparing for careers in research, teaching and extension.

College Capstone Course...............................................................3
- Any AECN Capstone Course.....................................................3

Crop Production and Protection

- AGR 204 Resource Efficient Crop M. Management..........................3
- AGR 240 Forage Crop & Range M. Management............................3
- AGR 269 Principles of Soil M. Management.................................3
- AGR 391 Site Specific Crop M. Management.................................3

- AGR 396 Soil N. Util. Relationships............................................4

Total Option Requirements..........................................................61-66

Soil Science Option

The soil science option is offered for students who wish to prepare for careers in technological, scientific, or industrial areas of soil science.

Possible careers include soil conservation, remediation of contaminated sites, and management of soil-crop interactions. Positions are open to graduates in industry and universities.

Students interested in graduate study should emphasize the physical and biological sciences in their elective courses.

College Capstone Course...............................................................3
- Select one:
  - AGR 405 Crop M. Management................................................3
  - AGR 435 Agroecology..............................................................3
  - AGR 475 Water Quality Strategy..............................................3

Agronomy

- AGR 204 Resource Efficient Crop M. Management..........................3
- AGR 240 Forage Crop & Range M. Management............................3

At least 8 cr must be taken from the following:

Free Electives..................................................................................3

Total Option Requirements..........................................................61-66

Suggested courses:
- ASCI 250 Animal M. Management................................................3
- ASCI 253 Animal M. Management................................................3
- ASCI 265 Resource & Environmental Economics........................3

Agroecology Option

Students selecting the agroecology option are concerned about the integrative systems aspects of the food and natural resource system. They are preparing for a wide range of employment opportunities in practical natural resource management, government service, nonprofit sector, political or international career, or graduate study in a number of food-related fields. This option is concerned with long-term agricultural production, economic performance, environmental impacts, and social implications of the food system. There is opportunity for a one-semester study in the agroecology program of NOVA University in Norway.
Agronomy Minor

Requirements for the minor include a minimum of 36 credit hours of course work, including at least 6 hours at the 300 level or above. A total of no more than 3 hours of credit in AGRO 496 and AGRO 295 can be applied to the minor.

Students who wish to minor in agronomy must first be assigned an adviser by the Department of Agronomy. The student's program must be approved by the minor adviser with copies of the approved program sent to the director of Records and the dean of the student's college.

Courses of Instruction (AGRO)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AGRO 405</td>
<td>Crop Improvement and Career Preparation</td>
<td>1</td>
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<tr>
<td>AGRO 131</td>
<td>Plant Science</td>
<td>3</td>
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<tr>
<td>AGRO 130</td>
<td>Plant Biology</td>
<td>3</td>
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<tr>
<td>AGRO 201</td>
<td>Physical Farm Management</td>
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<td>AGRO 202</td>
<td>Crop Management</td>
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<td>AGRO 295</td>
<td>Crop Management</td>
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<tr>
<td>AGRO 301</td>
<td>Animal Welfare</td>
<td>3</td>
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<td>AGRO 302</td>
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<td>AGRO 308</td>
<td>Animal Science</td>
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Total Option Requirements: 61-66
412. 811. Crop Genetic Engineering (1 cr)
- Basic steps required to produce genetically engineered crops.
- Genetic engineering procedures used to develop current crops and innovations that will lead to future products.
- Genetic engineering procedures in relation to function, growth, development, and survival of perennial forage, range, and turf plants.
- Concept scoring of physiological and morphological development on plant use and management.

421. 822. Crop and Weed Genetics (1 cr)
- Application of population and molecular principles to the explanation of variation observed in plant families and populations.
- Interpretation of information gathered from whole plant traits.
- Analysis of molecular analysis relationship between crops and weeds. Examples from genetic studies on both crop and weed species are the basis of course.

419. 819. Applications of Remote Sensing in Agriculture and Natural Resources (GEOG, GEOI, BIOI, NRES 420/820) (4 cr) (Lec 3; Lab 2; Prereq: GEOG/NRES 418/818 or permission).
- For course description, see GEOG 419/819.

- For course description, see HORT 424/824.

425. 825. Turfgrass Science and Culture (HORT 425/ 825) (3 cr) (Lec 3; Lab 2). Prereq: 1 hr of horticulture plant science and 3 hrs of soil science. C. Aptone course. 1st year fall semester of odd-numbered calendar years.
- For course description, see HORT 425/825.

431. Site-specific Crop Management (AGEN, M S Y M 431) (3 cr I) Lec 3; Lab 2. Prereq: Senior standing; AGRO, SOIL 153/AGRO 204; or permission.
- Principles and concepts of site-specific management. Evaluation and use of geographic information systems for crop production practices. Practical experience with hardware and software necessary for successful application of information affecting crop management.

- For course description, see BIOI 434.

435. 835. Agroecology (HORT, NRES 435/835) (3 cr II) Lec 3. Prereq: For AGRO/HORT/NRES 425. Senior standing or permission. For AGRO/HORT/NRES 425: 12 hrs biological or agricultural sciences or permission. 1st year fall semester.
- Projects for developing communication skills and leadership skills. Integration of principles of ecology, plant and animal sciences, crop production, and rural landscape planning and management for sustainable agriculture. Includes natural and cultivated ecosystems, population and community ecology, nutrient cycling, pest management, hydrologic cycles, cropping, and landscape design; biodiversity, and socio-economic evaluation of systems.

- Summer travel course with multi-state faculty. Farm visits to Iowa, Minnesota, and Nebraska.
- Identification of grain quality characteristics desired by livestock feeders, human food processors and industrial users, and methods used to measure these characteristics.

437. 837. Animal, Food and Industrial Uses of Grain (2 cr II) Lec 3. Prereq: CHEM 102 or 109, and one of the following: AGRO 204 or ASCI 250 or FSTD 203.
- Identification and comparison of grain quality characteristics desired by livestock feeders, human food processors and industrial users, and methods used to measure these characteristics.

438. 838. Producing Grain for Animal, Food and Industrial Uses (1 cr) Lec, 1 hr. Prereq: CHEM 109 and one of the following: AGRO 204 or ASCI 250 or FSTD 203. AGRO 315, and AGRO 318 recommended.
- Genetic development, production practices, and grain handling and storage procedures to deliver quality grain to livestock feeders, human food processors and industrial users.

440. 840. Great Plains Ecosystem (RNGE 440) (3 cr II) Lec 3. Prereq: Junior standing; BIO 101 and 101L, or equivalent.
- Recommended.
- Characteristics of Great Plains ecosystems, interrelationships of ecological factors and processes, and their application in the management of grasslands. Interactions of fire, vegetation, grazing animals and wildlife are emphasized.
Animal Science

Head: Professor Donald H. Beermann, Department of Animal Science, ASP 203
Professors: Brink, Burson, Calkins, Johnson, Jones, Madigan, Miller, Nelsen, Schilder, VanVeck
Associate Professors: Anderson, Cupp, Erickson, Miller, Noland, Reynolds, White
Assistant Professors: Burkey, Wood
Lecturers: Karr, Lillenthal, Lugar

The field of animal science encompasses the sciences related to animals and their contributions and interactions with humans. This program is designed for students who are interested in pursuing careers associated with the livestock, poultry, meat and companion animal industries. The core curriculum gives students additional education in animal science, biological sciences, physical sciences, mathematics, communications, and humanities and social sciences.

Each animal science major studies a core curriculum that provides a comprehensive look at animal biological systems, use of animal products, and current issues and careers in animal sciences. In addition, because there are six different options from which students can choose, a major of focus which meets their own individual interests and career objectives. These options include Animal Biology, Animal Production and Management, Business, Equine Sciences, Meat Science, and Pre-Veterinary Animal Sciences.

Students interested in any aspect of poultry science or avian biology may earn up to 24 credits through the M Edowed Poultry Consortium's Undergraduate Center of Excellence at Madison, W I. The credits may be applied toward an animal science major from the University of Nebraska. Further details are available from the Animal Science Department.

Students pursuing a DVM degree at an accredited college of veterinary medicine may obtain a BS degree in agricultural sciences with an animal science major, granted by the University of Nebraska upon satisfactory completion of the first year of the veterinary curriculum in veterinary medicine. To be eligible, students must have completed at least 90 credit hours of preprofessional courses with 20 credit hours in animal science courses at the University of Nebraska. Further details are available from the Animal Science Department.

Major Core Requirements

The following basic courses are required for majors in animal science. In addition, students must select and meet the requirements of one of the animal science options, depending on their personal interests and career objectives.

College Integrative Courses

AGI 101 Agronomy & Physiology of Dicot Plants 3
ASCI 301 Fundamentals of Animal Biology & Industry 4
ASCI 451 Livestock Management on Range & Pasture 4
ASCI 485 Animal Systems Analysis 4
ASCI 486 Animal Biomedical Systems 4

Natural Sciences

AGRO 315 Genetics or BIO S 206 General Genetics 4
BIO S 101 & 101L General Biology & Lab or BIO S 102 Cell Structure & Function or BIO S 103 Organic Biochemistry 8
Mathematics and Statistics (beyond college algebra)

Capstone Course

Select from:

1. STAT 210 Intro to Statistics 4
2. ASCI 490A 4
3. ASCI 395B 4
4. ASCI 395E 4

Total Credit Hours Required for Departmental Requirements 17

Also, select one of the following options

Animal Biology Option

This option is designed for students considering careers that deal with basic biological principles of animals and birds. Through careful use of electives, students develop an emphasis in genetics, growth and muscle biology, nutrition, or physiology as they establish a basic background in biological systems and develop molecular and biotechnology laboratory skills. Completion of this option provides excellent preparation for a variety of professional programs, including medical or dental school, and many other research-based careers.

College Integrative Courses

AGI 101 Agronomy & Physiology of Dicot Plants 3
ASCI 301 Fundamentals of Animal Biology & Industry 4
ASCI 451 Livestock Management on Range & Pasture 4
ASCI 485 Animal Systems Analysis 4
ASCI 486 Animal Biomedical Systems 4

Natural Sciences

AGRO 315 Genetics or BIO S 206 General Genetics 4
BIO S 101 & 101L General Biology & Lab or BIO S 102 Cell Structure & Function or BIO S 103 Organic Biochemistry 8
Mathematics and Statistics (beyond college algebra)

Capstone Course

Select from:

1. STAT 210 Intro to Statistics 4
2. ASCI 490A 4
3. ASCI 395B 4
4. ASCI 395E 4

Total Credit Hours Required for Departmental Requirements 17

Also, select one of the following options

Animal Production and Management Option

This option is designed for students interested in careers related to the production and management of beef cattle, dairy cattle, horses, poultry, and swine. Although students may emphasize a particular industry or production system, the option provides a balanced study of animal nutrition, meat animal production and management, physiology, breeding, and genetics, and business management of animal production systems. Completion of this option provides excellent preparation for those wishing to be involved in production agriculture and the abundance of allied industries that support animal agriculture.
Business Option

This option is designed for students considering careers with companies, financial institutions, government agencies, and other business concerns that support the livestock production and processing industries. Through careful use of elective courses, students may receive minors in other business-related programs and develop specific expertise for positions in management, marketing, and public relations. Completion of this option provides students with a solid background in both animal science and business.

Departmental Requirements

- **ACCT 201 Introductory Accounting I (3 cr)**  
- **ACCT 202 Introductory Accounting II (3 cr)**  
- **ECON 203 Survey of Microeconomics (3 cr)**  
- **ECON 204 Survey of Macroeconomics (3 cr)**  
- **FINA 260 Personal Finance (3 cr)**  
- **MNGT 360 Managing Behavior in Organizations (3 cr)**  
- **MKTG 345 Market Research (3 cr)**  
- **MKTG 346 Principles of Marketing (3 cr)**  
- **MKTG 347 Marketing Management (3 cr)**  
- **MKTG 425 Retailing Management (3 cr)**  
- **MKTG 442 Marketing Management (3 cr)**

Natural Sciences

- **ASCI 300E Principles of Horse Evaluation (3 cr)**  
- **ASCI 310 Fresh Meats (3 cr)**  
- **ASCI 311B Meat Science Laboratory (1 cr)**  
- **ASCI 312 Equine Nutrition (3 cr)**  
- **ASCI 322 Equine Management (3 cr)**  
- **ASCI 323 Equine Reproduction (3 cr)**  
- **ASCI 341 Physiology & Management of Reproduction (3 cr)**  
- **ASCI 342 Equine Reproduction (3 cr)**  
- **ASCI 343 Equine Nutrition (3 cr)**  
- **ASCI 344 Equine Reproduction (3 cr)**  
- **ASCI 345 Equine Reproduction (3 cr)**  

Free Electives

- **Select from ASCI 300- and 400-level courses**

Meat Science Option

This option is designed for students seeking careers in the meat industry, including research and product development, quality assurance, fresh meat processing, meat product manufacturing, equipment and ingredient technology, and government service. Students will gain a solid foundation in product characteristics, product development, production, and marketing of fresh and processed meat. Completion of the industry emphasis provides excellent preparation for a career in the meat and food industry and completion of the science emphasis provides excellent background for graduate study in meat or food science.

Departmental Requirements

- **ASCI 100 Animal Care & Evaluation (3 cr)**  
- **ASCI 210 Animal Products (3 cr)**  
- **ASCI 211 Meat Technology Laboratory (3 cr)**  
- **ASCI 310 Fresh Meats (3 cr)**  
- **ASCI 410 Processed Meats (3 cr)**  
- **ASCI 419 Retailing Management (3 cr)**  

Experiential Learning

- **From the Animal Science core, select STAT 218 Intro to Statistics (3 cr)**

Natural Sciences

- **CHEM 105 Chemistry & the Citizen I (4 cr)**  
- **CHEM 106 Chemistry & the Citizen II (4 cr)**  
- **CHEM 251 & 253 Organic Chemistry I & Lab (8 cr)**  
- **CHEM 300 Principles of Horse Evaluation (4 cr)**  
- **CHEM 310 Equine Nutrition (4 cr)**  
- **CHEM 342 Equine Nutrition (4 cr)**  
- **CHEM 343 Equine Nutrition (4 cr)**  
- **CHEM 344 Equine Nutrition (4 cr)**  

Free Electives

- **Select additional courses from the “Business Courses” category listed in the Animal Science Business Option (3 cr)**
Animal Science Minor

A minor requiring completes 18 hours of animal science courses including 6 hours at the 300 level or above.

Courses of Instruction (ASCI)

- Overview of the industries in animal science fundamentals of animal biology related to their application in those industries and trends and directions related to production and consumption of animal products important for human welfare.

101. Introduction to Animal Sciences (3 cr I) Lab 2.
- Survey of current animal production, skills and information resources for students interested in the animal sciences.

- Introductory course in skills related to proper care and management of production animals. Laboratory sessions develop fundamentals of animal husbandry.

- Prereq: Sophomore standing.

- Prereq: ASCI 150.
- Knowledge of edible animal products with particular emphasis on meat products from livestock and poultry. Includes all aspects of the meat industry from slaughter to consumption. Methods of slaughtering and fabrication, conversion of muscle to meat, processing techniques, preservation and storage, and consumer related topics discussed and demonstrated.

211. Meat Technology Laboratory (2 cr I) Lec 1 Lab 3.
- Prereq: ASCI 210.
- Practical experience in meat slaughtering and fabrication of all major livestock species. Includes sanitation, quality assurance and merchandising of meat products.

- ASCI 210 and/or ASCI 213 is for those students who have an interest in a career in culinary science, meat science, and/or dietetics.

Selecting and purchasing meat for the hotel, restaurant, institutional industry, and the retail markets.

- Prereq: 4 hrs biological science.
- Fundamentals of the anatomy and physiology of domestic animals.

250. Animal Management (3 cr I, III) Lec 3.
- Prereq: Sophomore standing.
- Principles of managing animals in traditional production systems. Basics of managing beef, dairy, horses, poultry, sheep, and swine through the life cycle for economic and efficient production.

251. Introduction to Companion Animals (3 cr I) Lec 3.
- Prereq: ASCI 100 or 3 hrs biological science.
- Overview of pet care, pet health issues and exploration of other ways in which these animals can be used (e.g., in therapy, teaching).

- Scope and role of the horse industry; Development and use of breeds; Principles of evaluating and selecting horses for breeding, racing, and performance based on current industry standards; Careers dealing with the horse industry.

- Prereq: Sophomore standing.
- Study and application of basic equitation principles for the novice rider. Basic concepts and adapted dressage maneuvers toward Western and English performance excellence.

300A. Principles of Intercollegiate Livestock and Meats Evaluation (3 cr I) Lec 2, Lab 2.
- Prereq: Junior standing recommended.
- Principles of livestock judging and presentation of oral reasons on evaluation of structure and composition differences in breeding and market livestock as related to their use in meat production and performance, genetics, evaluations and breeding livestock scenarios-evaluated. Presentation of oral reasons to defend selection decisions.

300B. Principles of Intercollegiate Livestock and Meats Evaluation and Judging (3 cr I, II) Lec 3 Lab 3.
- Prereq: ASCI 200 or permission.
- Study and application of basic evaluation principles for the novice rider. Basic concepts and adapted dressage maneuvers toward Western and English performance excellence.

- Prereq: ASCI 200.
- Overview of meat grading and presentation of oral reasons. Evaluation of meat structure and composition differences in feeding and marketing livestock related to their use in meat production and performance, genetics, evaluations and breeding livestock scenarios-evaluated. Presentation of oral reasons to defend selection decisions.

- Prereq: Junior standing recommended.
- Study and application of basic evaluation principles for the novice rider. Basic concepts and adapted dressage maneuvers toward Western and English performance excellence.

300E. Principles of Horse Evaluation and Judging (2 cr I, II) Lab 4.
- Prereq: ASCI 200 or permission.
- Study and application of basic evaluation principles for the novice rider. Basic concepts and adapted dressage maneuvers toward Western and English performance excellence.

310. Fresh Meats (3 cr I) Lec 2, Lab 2.
- Prereq: ASCI 210 or permission.
- Principles of selecting fresh meat from beef, pork, lamb, and poultry that determine carcass characteristics, muscle, meat technology, preservation, merchandising concepts and markets.

311. Study Tour (2 cr, max 6 I) Prereq: Permission. Tour will start on Saturday following the Spring Commencement in May with follow-up term paper and/or course presentation. Completed prior to the final examination period for the fall semester.
- Students must contact the instructor by April 1 for early instructions.

- Prereq: ASCI 240 and CHEM 251.
- Fundamentals of nutrition, specific livestock, nutrients and requirements, characteristics of feedstuff, methods of feeding, and the feed industry.
400B. Advanced Intercollegiate Livestock and Meats Evaluation and Advanced Livestock Evaluation and Judging (2 cr I, Lab 1) Prereq: ASCI 308 or equivalent experience. The university-wide advanced livestock judging team is made up of students from this course. The livestock evaluation and judging and related experiences are designed to be competitive and to develop students for judging positions on the livestock, poultry, and meat industry. Concerns and issues presented in livestock evaluation, career opportunities, building team skills, and developing team work with competitors to learn to evaluate livestock production philosophies. Develop proficiency in brief, concise oral presentation of reasons for making decisions.

400E. Advanced Horse Evaluation and Judging (2 cr I, Lab 4) Prereq: ASCI 308 or equivalent, recommended. The University of Nebraska horse judging team is selected from students enrolled in ASCI 400E. Field trips are a major component of the course. Advanced horse evaluation and judging and related experiences are designed to be competitive and to develop students to judge horses. The development and presentation of concise oral reasons for defending placing decisions.

420B. Processed Meats (3 cr II) Lec 2, Lab 2. Prereq: ASCI 210 or permission.

421, 422. Advanced Animal Nutrition (3 cr I) Lec 3. Prereq: ASCI 320 or equivalent. Advanced course dealing with the nutrition of domestic animals. In-depth coverage of nutrients, nutrient metabolism, and nutrient requirements of animals. Examination of the chemical functions of nutrients in life processes.

421. Advanced Animal Nutrition (3 cr I) Lec 3. Prereq: ASCI 320 or equivalent. Advanced course dealing with the nutrition of domestic animals. In-depth coverage of nutrients, nutrient metabolism, and nutrient requirements of animals. Examination of the chemical functions of nutrients in life processes.

422. Advanced Feeding and Feed Formulation (3 cr II, III) Lec 3. Prereq: ASCI 320 or equivalent. Graduate students are required to complete an independent analysis of published research in a related area of nutrition and submit a written paper. Advanced current feeding practices for domestic animals. Applied animal nutrition and feed formulation.


442/442L. Endocrinology (BIOC 442/842, VBMS 842) (3 cr I) Lec 3. Prereq: ASCI 320. A course in vertebrate physiology and/or biochemistry.

450. Horse Management (3 cr I) Lec 2, Lab 2. Prereq: Junior standing and ASCI 100, ASCI 320 and 341 recommended. Light horse production. Nutrition, reproduction, management, housing, and principles of use of light horses.


454. Swine Management (3 cr I) Lec 1, Lab 2. Prereq: ASCI 100. 0 th year of market-ready swine. ASCI 454 is intended for upper-class students with an interest in animal production. Integration and application of factors pertaining to nutrition, physiology, genetics, health, engineering, and economics in the production of pork. Factors affecting profitability of the swine enterprise.

455. Beef Cow-Calf Management (2 cr I, II) Lec 1, Rct 1, Lab 2. Prereq: Senior standing or permission; ASCI 250, ASCI 210, 240, 320, and 330 recommended. Integrated management specific to the beef cow-calf enterprise necessary to achieve biologic and economic efficiency.

456. Beef Feedlot Management (2 cr I, II) Lec 1, Rct 1, Lab 2. Prereq: Senior standing or permission; ASCI 250, ASCI 210, 240, 320, and 330 recommended. An advanced preparation in the feeding of cattle for slaughter. Emphasis on the nutrition and management of feedlot cattle and related health and economic considerations. Covers the beef enterprise from livestock management to market and relates closely to beef cow-calf production.

457. Animal Systems Analysis (3 cr I, II, III) Lec 2, Rct 2. Prereq: Senior standing; ASCI 250, ASCI 210, 240, 320, and 330 recommended. Development of ability to analyze and solve problems in all segments of animal science by integration of information from all pertinent disciplines and sources.

458. Animal Biotechnologies (3 cr I, II, III) Lec 2, Rct 2. Prereq: Senior standing; ASCI 250, ASCI 210, 240, 320, and 330 recommended. Animal Biotechnologies: the development of the useful ability to analyze and solve problems in all segments of animal science by integration of information from all pertinent disciplines and sources.

490. Animal Science Internship (3 cr, max 6 I, II, III) Fld. Prereq: ACCT 201; AECN 325 and 452; ASCI 420 and 457; AGRI/NRES 103 Food, Agricultural and Natural Resource Systems. Students concerned about their preparation for college-level biology should take BIOC 101 and 101L prior to BIOC 102. Please consult your advisor if in doubt. Within the same subject matter area, students may request a more advanced course be substituted for a required course.

499H. Honors Thesis (3 cr, max 6 I, II, III) Prereq: Admission to the University Honors Program and permission. AGRI 100 recommended. Conduct a scholarly research project and write a University Honors Program undergraduate thesis.

806. Animal Science Graduate Seminar (1 cr per sem, max 2 cr I, II) Lec/Dis 1. Prereq: Graduate student in animal science or permission.


820. Feedlot Nutrition and Management (3 cr I, II) Lec 3. Prereq: CHE 381. 0 th semester of odd-numbered years.


Biological Chemistry
Interim Director: Professor Raymond Chollet, N 200 Beadle Center
Associate Professors: Becker, Griep, M. iner, Sarath
Assistant Professor: Bailey, Banyik, Basset, Lee, Simpson, Somerville, Stone, W. Ison, Zempleni
Senior Lecturer: M. adhan
Coordinator for Undergraduate Research: M. adhan

The Center for Biological Chemistry offers studies leading to a bachelor of science (BS) degree. The training offered is suitable for a professional career in biochemistry which may lead to employment in various industries involved in the manufacture or processing of chemicals, foods, feeds, toiletries, and pharmaceuticals or federal agencies such as the Food and Drug Administration, U.S. Department of Agriculture, U.S. Public Health Service, and Environmental Protection Agency. The program is also suitable as preparation for graduate studies leading to academic careers in biochemistry and for professional careers in medicine, dentistry, veterinary medicine and health-related fields.

Pass/No Pass. Students majoring in biochemistry may not take any of the courses required for the biochemistry major. Pass No Pass except for courses involving independent study, research, and seminars.

Major Requirements

Students concerned about their preparation for college-level biology should take BIO 101 and 101L prior to BIO 102. Please consult your advisor if in doubt. Within the same subject matter area, students may request a more advanced course be substituted for a required course.

Hours

Agricultural Sciences

AGR I/N RES 103 Food, Agricultural and Natural Resource Systems

BIOC 101 Career Opportunities in Biochemistry

BIOC 431 Biomolecules & Metabolism

BIOC 432 Gene Expression & Replication

BIOC 433 Biochemistry Laboratory

BIOC 435 Advanced Topics in Biochemistry
Natural Sciences........................................... 43-47
BIOC 312 Cell Structure & Function............... 4
BIOC 320 Genetics or AGRO 315.......................... 4
BIOC 311 Fundamentals of M (microbiology)...... 1
BIOC 312 Microbiology A (L, Lab) (1 cr)............ 1
CHEM 102 General Chemistry I..................... 4
CHEM 110 General Chemistry II..................... 4
CHEM 221 Organic Chemistry.......................... 4
CHEM 222 General Chemistry Lab (1 cr)............ 1
CHEM 251 and 253 or 261 and 263 Organic
chemistry.................................................. 4
CHEM 252 and 254 or 262 and 264 Organic
Chemistry.................................................. 4
CHEM 251 or 253 or 261 or 263 or 265
or CHEM 264 Organic Chemistry Lab (2 cr)....... 1

Program Assessment. In order to assist
the institution in evaluating the effectiveness of
its programs, majors will be required in their
senior year to participate in an exit interview.
The interview will be conducted in the context of
the BIOC 201 course.
Results of participation in this assessment
activity will in no way affect a student's GPA or
graduation.

Laboratory Fee and Deposit. Students who
enroll in laboratory course in the Center for
Biochemical Chemistry may be required to pay a
small nonrefundable cash fee to defray the cost
of materials consumed in the course and a
deposit to cover the cost of replacing or repairing
equipment the student may damage in the
laboratory.

Graduate Work. Advanced degrees of master
of science and doctor of philosophy are available.
For details, consult the Graduate Studies
Bulletin.

Courses of Instruction (BIOC)

101. Career Opportunities in Biochemistry (1 cr I)
Prereq: Interest in becoming a biochemical major.
Introduction to the field of biochemistry and faculty research
interests in the Center for Biochemistry. Exploration of
careers in biochemistry.

321. Elements of Biochemistry (3 cr) Lec 3.
Prereq: CHEME 251B, BIOC 101 and 101L, or 104H. BIOC 321 will not count for
anatomy major.
Structure and function of proteins, carbohydrates, lipids and
nucleic acids; enzymes principal metabolic pathways and
biochemical expression of genetic information.

322. Laboratory for Elements of Biochemistry (1 cr)
Lab. Prereq: Parallel BIOC 321L.

432/832. Biomolecules and Metabolism (CHEM, BIOC
433/833) (4 cr, I, II) Lec 4, Prereq: CHEM
251B, BIOC 101 and 101L, or 104H. BIOC 321 recommended. First course of a two-semester, concurrent
biochemistry course sequence.
Structure and function of proteins, carbohydrates, lipids and
nucleic acids; enzymes; principal metabolic pathways and
biochemical expression of genetic information.

433/833. Biochemistry Laboratory (BIOC, CHEM, BIOC 433/
833) (2 cr, I, II) Lec, Lab 1, Prereq: BIOC 432 or 832 concurrent enrollment.
Introduction to techniques used in biochemical and biotechn-
ology research, including measurement of pH, spectroscopy,
computer analysis of enzymes, chromatography, fractionation of macro-
molecules, electrophoresis, and centrifugation.

434/834. Plant Biochemistry (AGRO, BIOC, CHEM
Extra credit obtained in plant biochemistry.
Biochemical metabolism unique to plants. Relationships of
topics previously acquired in general biochemistry to
biochemical processes unique to plants. Biochemical mecha-
nisms behind physiological processes discussed in plant or crop
physiology.

435/835. Advanced Topics in Biochemistry
(3 cr, I, II) Lec, Lab 4, Prereq: BIOC 434/CHEM 434/834, 835.
Extra credit obtained in plant biochemistry.

436/836. Biophysical Chemistry (CHEM 436/836) (3 cr,
Treatment of rapid reactions.
Applications of thermodynamics to biochemical phenomena,
treatment of rapid reactions.
Applications of thermodynamics to biochemical phenomena,
treatment of rapid reactions.
Applications of thermodynamics to biochemical phenomena.
Applications of thermodynamics to biochemical phenomena.
Applications of thermodynamics to biochemical phenomena.
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Applications of thermodynamics to biochemical phenomena.
Applications of thermodynamics to biochemical phenomena.
Diversified Agricultural Studies

Coordinator: Associate Professor Steve Danielson, 211 Plant Industries

The diversified agricultural studies major is designed for the intellectually aggressive student who seeks a broad education in the agricultural sciences combined with essential studies in the natural sciences, mathematics, leadership, communications skills, humanities and social sciences. To pursue the diversified agricultural studies major is to make an appropriate initial major for students who may be undecided about which area of the agricultural sciences they wish to pursue.

A diversified agricultural studies major will take courses that provide a broad education in the agricultural sciences to assist in developing a course of study in this major; there are minimum requirements and broad guidelines which provide maximum flexibility for individualizing a program. The broad requirements in the major are four courses in agricultural production and production management, two courses in product utilization, two courses in commodity utilization, and three courses in resource characterization. Furthermore, students must have a course in four CASNR departments or program areas.

A minimum of 20 hours must be completed at the 300 level or above in each of at least two of the following departments: agronomy, animal science, horticulture, or mechanized systems management.

Minor

A minor in one of the above departments is required. The minimum number of credit hours is three.

Major Requirements

Agricultural Sciences

A minimum of 20 hours must be completed at the 300 level or above. At least 12 of these hours must be in four CASNR departments or program areas.

Production and Production Management

Must include a course in at least two of the following departments: agronomy, animal science, horticulture, or mechanized systems management.

Resource Systems

A minimum of 20 hours must be completed at the 300 level or above and a minimum of 10 hours must be completed at the 300 level or above. In meeting degree requirements, students must have a course in four CASNR departments or program areas.

Diversified Agricultural Studies Minor

Students may obtain a minor in diversified agricultural studies by satisfactorily completing a minimum of 18 credit hours of work courses offered by CASNR. At least 9 hours of the agricultural sciences courses must be at the 300 level or above, at least 12 credit hours of work courses must be at the 300 level or above, and a student must complete at least one 2- or 3-credit-hour course in each of three of the following areas:

1. Animal Sciences
2. Plant Sciences
3. Crop and Commodity Protection
4. Agricultural Economics

Elective

To be selected from lower level modern languages courses or from one of the following courses in essential studies categories above.

Diversified Agricultural Studies

College of Agricultural Sciences and Natural Resources

Entomology

Head: Professor Gary Brewer, Department of Entomology 202 Plant Industries

Professors: Baxendale, Foster, H, Higley, Kamble, Moe, Rohl, Siegfried, W right

Associate Professors: Danielson, Ellis, Heng-M os, Hunt, Lator

Assistant Professor: Berkebile

Lecturer: Weissling

Coordinator for Undergraduate Research: Heng-M os

Insect Science Major

The field of insect science encompasses the agricultural, biological, and environmental sciences related to insects and their relatives. The most abundant animals on earth, are commonly found in all habitats, and are essential in maintaining our ecosystem. Entomology offers numerous career opportunities in both basic and applied fields.

The core curriculum provides students with a balanced education focusing on insect identification, biology, structure and function, behavior, ecology, and diversity, as well as courses in mathematics, science, and the humanities. In addition to the core, there are four different options from which students can select an area of focus which meets their own interest and career objectives.

The IPM and Pest Science Option is designed for students considering careers in agriculture, agriculbturis, consulting (agricultural, environmental, public health, urban), extension, and state and federal government agencies (e.g., APHIS, EPA, USDA, and state departments of agriculture, forestry, fisheries, the military, food processing, and pest control). Examples of areas of focus include agronomic and horticultural pests, or urban pests. This option is also suitable for students preparing for graduate studies leading to academic or research careers.

The Science Option is designed for students interested in careers focusing on the basic biology of insects and other arthropods. This option is suitable for students considering any career involving entomology (e.g., academia, research, medicine, forensics, environmental quality conservation biology, or health-related fields), but is especially appropriate for those interested in careers involving the transmission of disease-causing pathogens.

The Public Health Option is designed for students interested in careers focusing on the association and impacts of insects and related pests on human and animal health. This option may include their mere presence and nuisance value, the generation of allergens and subsequent irritation, insect and mite stings and bites, the direct invasion of tissues, and the transmission of disease-causing pathogens. This option is appropriate preparation for

### Hours

<table>
<thead>
<tr>
<th>Categories</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agronomy and Analytical Skills</td>
<td>16</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>16</td>
</tr>
<tr>
<td>Animal Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Entomology</td>
<td>6</td>
</tr>
<tr>
<td>Plant Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Commodity Protection</td>
<td>5-6</td>
</tr>
<tr>
<td>Resource Systems</td>
<td>5-6</td>
</tr>
</tbody>
</table>

### Notes

1. Students must have a course in four CASNR departments or program areas.
2. May not include independent studies, special problems, career or industrial experience, or study tour.

### Elective

To be selected from lower level modern languages courses or from one of the following courses in essential studies categories above.
study graduate or for careers in academia, research, the military, medicine or health-related fields.

- The Forensic Science Option is designed for students interested in the analysis of forensic evidence from crime scene investigations. This option also is suitable preparation for graduate study or careers in academia, research, or medicine (e.g. pathology).

Insect Science Major Requirements

The following basic courses are required for majors in insect science. In addition, students must select and meet the requirements of one of the options.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Integrative Course</td>
<td>6</td>
</tr>
<tr>
<td>AGR 11RVES 103 Food, Agriculture, &amp; Natural Resources Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 485 Current Issues in Insect Science</td>
<td>3</td>
</tr>
<tr>
<td>Departmental Requirements</td>
<td>11</td>
</tr>
<tr>
<td>ENTO 108 Insects, Science &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 115 Insect Biology</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 116 Insect Identification</td>
<td>1</td>
</tr>
<tr>
<td>ENTO 400 Biology &amp; Classification of Insects</td>
<td>4</td>
</tr>
<tr>
<td>Experiential Learner for Career Development</td>
<td>4-5</td>
</tr>
<tr>
<td>Select from the following four categories:</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>M</td>
</tr>
<tr>
<td>ENTO 116 Insect Identification</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 108 Insects, Science &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 407 Urban &amp; Industrial Entomology</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 409 Insect Control by Host-Plant Resistance</td>
<td>2</td>
</tr>
</tbody>
</table>

Mathematics and Analytical Skills (Beyond college algebra)...

- Includes mathematics and statistics.
- Written Communication
- Select from: EN GL 150, 151, 254; EN GL 120, 200, 300
- Oral Communication
- Select from: COMM 109, 209, 212, 311
- Communication and Intellectual Skills
- Select from: EN GL 101, 150, 151, 253, 252, 254; ALEC 102; EN GL 120, 200, 300; COMM 109, 209, 212, 311

Natural Sciences... 12

- Biological Sciences
- Select from: BIOC 101 & 101L, 102, or 103
- CHEM 109 General Chemistry I
- BIOC 206 Microbiology & AGRD 315
- Genetics
- Select one 3-credit course in each of the following five categories:
  - C A S R E essential studies categories: For the list of ES is courses see "essential studies program" on page 377.
  - Area C: Human Behavior, Culture & Social Organization
  - Area E: Historical Studies
  - Area F: Humanities
  - Area G: Art
  - Area H: Race, Ethnicity & Gender
- Note: One 3-credit course with an international focus is to be selected from the list under "International Agriculture and Natural Resources Minor" on page 48 which counts towards C A S R E ES is requirements.

Total Major Requirements... 65-66

Option Requirements... 39-42

Free Electives... 20-26

Total Requirements for Graduation... 128

Integrated Pest Management (IPM) and Pest Science Option

The IPM and Pest Science Option is designed for students interested in careers in agriculture, agrichemistry, and professional consulting (agricultural, environmental, public health, urban) extension, research, and government agencies (e.g., APHIS, EPA, USDA, and state departments of agriculture), horticulture, the military, food processing, and pest control. Examples of areas of focus include agronomic and horticultural pests or urban pests. This option is also suitable preparation for graduate studies leading to academic or research careers in applied entomology.

Departmental Courses...

- ENTO 401 Insect Physiology
- ENTO 406 Insect Ecology
- ENTO 412 Entomology & Pest Management
- Select three of the following courses:
  - ENTO 109 Beekeeping
  - ENTO 303 Horticultural Insects
  - ENTO 308 Management of Field Crop Insects
- ENTO 407 Urban & Industrial Entomology
- ENTO 409 Insect Control by Host-Plant Resistance
- ENTO 416 & 416L Veterinary Entomology & Lab

Other Courses...

- AGR 200 Intro to Agricultural Entomology
- AGRO 220 Principles of Weed Science
- AGRO 153 Soil Resources
- BIOC 206 Microbiology & AGRD 315
- Genetics
- Select from:
  - BIOC 101 & 101L, 102, or 103
  - CHEM 109 General Chemistry I
- BIOC 206 Microbiology & AGRD 315
- ENTO 416 & 416L Veterinary Entomology & Lab

Total Option Requirements... 39-40

Science Option

The Science Option is designed for students interested in careers focusing on the basic biology of insects and other arthropods. This option is suitable for students considering any career involving entomology (e.g., academia, research, medicine, forensics, environmental quality, conservation biology, or health-related fields), but is especially appropriate preparation for entry into professional programs such as veterinary and medical schools and with many graduate school programs. The following option should choose BIOC 102 and BIOC 206 in meeting the entomology major requirements in N atural Sciences; additionally BIOC 103 is highly recommend. Completion of insect science option will also fulfill requirements for a minor in biological sciences.

Departmental Courses...

- ENTO 401 Insect Physiology
- ENTO 406 Insect Ecology
- Entomology Elective
- Select from:
  - ENTO 109 Beekeeping
  - ENTO 303 Horticultural Insects
  - ENTO 308 Management of Field Crop Insects
  - ENTO 407 Urban & Industrial Entomology
  - ENTO 409 Insect Control by Host-Plant Resistance
  - ENTO 416 & 416L Veterinary Entomology & Lab

Other Courses...

- AGR 200 Intro to Agricultural Entomology
- AGRO 220 Principles of Weed Science
- AGRO 153 Soil Resources
- BIOC 206 Microbiology & AGRD 315
- Genetics
- Select from:
  - BIOC 101 & 101L, 102, or 103
  - CHEM 109 General Chemistry I
- BIOC 206 Microbiology & AGRD 315
- ENTO 416 & 416L Veterinary Entomology & Lab

Total Option Requirements... 39-40

Public Health Option

The Public Health Option is designed for students interested in careers focusing on the association and impacts of insects and related pests on human and animal health. This may include their mere presence and nuisance value, the transmission of disease-causing pathogens, and/or the transmission of disease-causing pathogens. This option is appropriate preparation for graduate study or for careers in academia, research, the military, medicine, or health-related fields. Students pursuing this option should choose BIOC 102 and BIOC 206 in meeting the entomology major requirements in Natural Sciences; in addition, a minor in biology can be met with the addition of BIOC 103 through free electives.

Departmental Courses...

- ENTO 401 Insect Physiology
- ENTO 406 Insect Ecology
- Select three of the following courses:
  - ENTO 109 Beekeeping
  - ENTO 303 Horticultural Insects
  - ENTO 308 Management of Field Crop Insects
  - ENTO 407 Urban & Industrial Entomology
  - ENTO 416 & 416L Veterinary Entomology & Lab

Other Courses...

- BIOC 206 Microbiology & AGRD 315
- Genetics
- Select three of the following courses:
  - BIOC 101 & 101L, 102, or 103
  - CHEM 109 General Chemistry I
- BIOC 206 Microbiology & AGRD 315
- ENTO 416 & 416L Veterinary Entomology & Lab

Total Option Requirements... 39-40

Forensic Science Option

The Forensic Science Option is designed for students interested in the analysis of forensic evidence from crime scene investigations. This option also is suitable preparation for graduate study or careers in academia, research, or medicine (e.g. pathology). Students may choose to focus on crime scene investigation and/or forensic analysis. Students pursuing this option should choose BIOC 102 and BIOC 206 in meeting the entomology major requirements in Natural Sciences; in addition, a minor in biology can be met with the addition of BIOC 103 and BIOC 207 through free electives. Requirements for a minor in chemistry can also be met with the addition of 4 hours of chemistry excluding CHEM 131, 195, 396, 399, 410.
Insect Science Minor

A minor in insect science will consist of at least 18 credit hours of entomology including at least 6 hrs at the 300 level or above. Biological sciences, 381. Entomology, and 382. Zoology, and 363 hours of ENTO 496. Independent Study in Entomology, may be counted toward the minor requirements. The course of study leading to a minor in insect science must be developed in consultation with, and be approved by an adviser in the Department of Entomology. Advisers for the minor are assigned by the Head of the Department of Entomology.

Courses of Instruction (ENTO)

300. Toxicology in the Environment (3 cr) Lec. 2 Prereq: 12 hrs of biology and CHEM. 0 flared spring semester of even-numbered calendar years. Introduction to the principles of toxicology as they apply to environmental contaminants, chemical and industrial, and naturally occurring chemicals.

301. Horticultural Insects (3 cr) Lec. 2, Lab. 2 Prereq: BIOS 101 and 101L, or ENTO 115 or permission. ENTO 116 recommended. C relit towards the degree cannot be earned in both ENTO 233 and ENTO 115. Biology and management of insects and other arthropods injurious and beneficial to horticulture.


304. Experiential Learning for Career Development in Entomology (1-5 cr, max 5 I, II, III) Lab. Prereq: Sophomore standing. Career experience in applied practices is provided via employment with an entomology-related agency, business or industry, research, extension, or teaching activity.

305. Research Experience (1-5 cr, max 5) Lab. Prereq: Introductory course in ENTO.

306. Teaching Experience (1-5 cr, max 5) Lab. Prereq: Introductory course in ENTO.

307. Extension Experience (1-5 cr, max 5) Lab. Prereq: Introductory course in ENTO.
885. Insect Transmission of Plant Diseases (BIO 885) 12 cr (or Lec 2, Prereq: B.S. microbiological sciences including BIO 464A/464A, preceq or parallel and 6 hours entomology or biological sciences (zoology). 0.5 credit per semester of even-numbered academic years.

898. MS Degree Project (4 cr, I, II, III) Prereq: Completion of 24 hours toward the M.S. degree. A proposal of graduate course work for the non-thesis M.S. degree program.

899. Masters Thesis (6-10 cr, I, II, III) Refer to Department of Entomology/Weevil site for distance course information.

Refer to the Graduate Bulletin for 900-level courses.

### Food Science and Technology

**Head:** Professor Rolando A. Flores, Department of Food Science and Technology, 143 Food Industry Complex

**Professors:** Bullerman, Cuppett, H. Anna, H. utkins, Jackson, Rupnow, Taylor, Whelch, Weller, Zeece

**Associate Professors:** Benson, Smith

**Assistant Professors:** Schlegel, Subbahl, T. Harned, Water

**Coordinator for Undergraduate Research:** Cuppett

Food Science and Technology majors find career opportunities in food processing firms, government agencies, and educational institutions. The major curriculum includes a balance of courses in food science, biological sciences, physical sciences, mathematics, and social sciences and humanities. Food science courses include food engineering, food analysis, food chemistry, food microbiology, nutrition, quality assurance and commodity processing courses. Students may participate in an internship program that provides summer employment in the food industry.

### Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR 103</td>
<td>Food, Agricultural &amp; Natural Resources Systems</td>
<td>3</td>
</tr>
<tr>
<td>FDST 460</td>
<td>Food Product Development Concepts</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 321 and 321L</td>
<td>Elements of Biochemistry (3 cr) and Lab (1 cr)</td>
<td>4-5</td>
</tr>
<tr>
<td>or BIOS 431 and 431L</td>
<td>Biochemistry of Molecules &amp; Metabolism (3 cr) and 433 Biochemistry Lab (2 cr)</td>
<td>5</td>
</tr>
<tr>
<td>BIOS 101 and 101L</td>
<td>General Biology/Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 312</td>
<td>Fundamentals of M. Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 413</td>
<td>Biological Sciences elective</td>
<td>3</td>
</tr>
<tr>
<td>Select from any BIOS course except BIOS 203</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH EM 109</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CH EM 110</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CH EM 251</td>
<td>Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CH EM 253</td>
<td>Organic Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>M SYM 109 and 109L</td>
<td>Physical Principles in Agriculture (4 cr) and Lab (1 cr)</td>
<td>6</td>
</tr>
<tr>
<td>or PHY 251</td>
<td>Elements of Physics (4 cr) and 153 Elements of Physics Lab (1 cr)</td>
<td>5</td>
</tr>
</tbody>
</table>

### Mathematics and Analytical Skills

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 218</td>
<td>Intro to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>or PHY 218</td>
<td>Calculus for Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH 102</td>
<td>Trigonometry</td>
<td>2</td>
</tr>
<tr>
<td>MATH 104</td>
<td>Calculus for Management, Social Sciences (3 cr) or MATH 106 Analytic Geometry &amp; Calculus I (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>Communications</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>JGEN 190 or 300 Technical Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Oral Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM 109, 209, 212, or 311</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication and Interpersonal Skills</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 101, 150, 151, 252, 253, 254;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JGEN 120</td>
<td>ALEC 102</td>
<td>COMM 109, 209, 212, or 311</td>
</tr>
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</table>

### Social Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 211</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Microeconomics or AECE 141</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Intro to Economics of Agriculture</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Studies</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one 3-credit course in each of the following five areas:</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Area A. Natural Resources, Environmental, &amp; Tribal Studies</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area B. Historical Studies</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area C. Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area D. Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area E. Race, Ethnicity &amp; Gender</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** One three-hour credit course with an international focus is to be selected from the lists under "International Focus Requirement" on page 47. This course can also be used to fulfill other degree requirements.

### Food Science & Technology Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDST 132</td>
<td>Food Science &amp; Technology Requirements</td>
<td>39</td>
</tr>
<tr>
<td>FDST 132</td>
<td>39 Practical Applications in Food Science</td>
<td>1</td>
</tr>
<tr>
<td>Core Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FDST 101</td>
<td>Introductory Food Science (2 cr)</td>
<td>8</td>
</tr>
<tr>
<td>FDST 280</td>
<td>Contemporary Issues in Food Science</td>
<td>2</td>
</tr>
<tr>
<td>FDST 403</td>
<td>Food Quality Assurance (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>FDST 451</td>
<td>Food Science &amp; Technology Seminar (1 cr)</td>
<td>2</td>
</tr>
<tr>
<td>Process Technology Courses</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>FDST 363</td>
<td>Heat &amp; Mass Transfer (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>FDST 465</td>
<td>Food Engineering Unit Operations (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>Choose two of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASCI 310</td>
<td>Fresh Meats or 410 Processed Meats</td>
<td>3</td>
</tr>
<tr>
<td>ASCI 310</td>
<td>410 Processed Meats</td>
<td>3</td>
</tr>
<tr>
<td>FDST 412</td>
<td>Food Processing Technology (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>FDST 438</td>
<td>Eggs &amp; Egg Products (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>FDST 429</td>
<td>Dairy Products Technology (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>FDST 420</td>
<td>Fruit &amp; Vegetable Technology (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>FDST 455</td>
<td>Microbiology of Fermented Foods (2 cr) and Lab (1 cr)</td>
<td>3</td>
</tr>
<tr>
<td>Food Chemistry</td>
<td>10</td>
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<tr>
<td>FDST 205</td>
<td>Food Composition &amp; Analysis (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>FDST 448</td>
<td>Food Chemistry (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>FDST 449</td>
<td>Food Chemistry Lab (1 cr)</td>
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</tr>
<tr>
<td>FDST 458</td>
<td>Food Analysis (3 cr)</td>
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<tr>
<td>Food M Biology</td>
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<tr>
<td>FDST 405</td>
<td>Food Microbiology (3 cr)</td>
<td>3</td>
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<tr>
<td>FDST 406</td>
<td>Food Microbiology Lab (2 cr)</td>
<td>2</td>
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<tr>
<td>Nutrition</td>
<td>3</td>
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<tr>
<td>ASCI 421</td>
<td>Advanced Animal Nutrition (3 cr)</td>
<td>3</td>
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<tr>
<td>ASCI 421</td>
<td>421 Advanced Animal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NFTR 455</td>
<td>Advanced Nutrition (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>Technical Electives</td>
<td>11-12</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following areas:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry, biochemistry, biology, food science &amp; technology, life science, agricultural economics, agronomy, mechanized systems management, engineering, business, or nutrition and health sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Free Electives</td>
<td>1-6</td>
<td></td>
</tr>
</tbody>
</table>

### Minimum Requirement for Graduation

128 Hours

### Courses of Instruction (FDST)

- **ES/I/S 101. Introductory Food Science (2 cr)** Lec 2
- Prepr: Food science and technology or permission. This course is introduced to laboratory techniques in food chemistry, food biochemistry, food analysis, food microbiology, and food fermentation.

132. Practical Applications in Food Science (1 cr, I, II, Lab 3)

Prepr: Food science and technology or permission. Food processing, preservation, nutrition, safety, quality, marketing, and related topics. Food processing procedures and equipment. Microbiological and chemical procedures.

203. Food Composition (2 cr) Lec 2

Prepr: Food science and technology or permission. Understanding the role of composition in flavor, color, functional and nutritional properties of foods. The effect of food composition on processing. Food additives as they affect flavor, functional and nutritional attributes of processed foods.

205. Food Composition and Analysis (3 cr) Lec 2, Lab 2

Prepr: CHEM 109 and 110 or FDST 101 or 131. Parallel CHEM 222 recommended. Major components of foods; their structures, and their role in the functional and nutritional properties of foods. Chemical methods for the determination and characterization of major food components.

207. Analysis and Properties of Food Products (3 cr) Lec 2, Lab 3

Prepr: CHEM 109 and 110 or FDST 203 or permission. CHEM 116 or 221 recommended. Chemical and instrumental methods for proximate analysis of foods, contaminants, and food quality parameters.

3. Students majoring in Food Science and Technology may not take Food Science and Technology courses with a P or NS, except for Independent Study.

4. Students interested in a career in research, or planning to seek an advanced degree should also take CHEM 252 and 254.

5. Students are encouraged to consider Sensory Evaluation (FDST 430) as one of the courses used to fulfill the technical electives.
363. Heat and Mass Transfer (M SYM 363) (3 cr) Lec 2, rec 1, Prereq: CHEM 104 or 106; M SYM 109 or PHY SY 141 or 151. Fundamentals of heat engineering including material and energy balances, fluid mechanics, heat transfer, and mass transfer.

372. Food Safety and Sanitation (NUTR 372) (3 cr) Lec 3, Prereq: O-n-campus student must also register for FDST 455L/855L. Examination of the relationship of structure and functionality of ingredients in food systems.

381/481. Functional Properties of Food (NUTR 481/881) (3 cr) Lec 2, Lab 3, Prereq: NUTR 224, 245, and BIOC 321, or FDST 448. Examination of the relationship of structure and functionality of ingredients in food systems.

404/804. Teaching Applications of Food Science (3 cr) Lec 1, Prereq: BIOS 101 and CHEM 109. Offered fall semester of odd-numbered calendar years. Food evaluation using sensory techniques and statistical analysis.

406. Food Microbiology Laboratory (BIOS 445/845) (3 cr) Lec 3, Prereq: BIOS 312, CHEM 251, BIOC 321, or permission. Nature, physiology, and interactions of microorganisms in foods. Introduction to food-borne diseases, the effect of food processing systems on the microflora of foods, principles of food control, food spoilage, and foods produced by microorganisms.

409/809. Food Microbiology (BIOS 445/845) (3 cr) Lec 3, Prereq: BIOS 312, CHEM 251, BIOC 321, or permission. Nature, physiology, and interactions of microorganisms in foods. Introduction to food-borne diseases, the effect of food processing systems on the microflora of foods, principles of food control, food spoilage, and foods produced by microorganisms.

412/812. Cereal Technology (1-5 cr, max 12) Prereq: Permission. Individual or group projects in research, literature review, extension of course work under supervision and evaluation of a departmental faculty member.


449/849. Food Chemistry Laboratory (1 cr) Lec 3, Prereq: FDST 205; CHEM 251, BIOC 321. Molecular components of various foods and the reactions of these components during the processing of foods.

451. Food Science and Technology Seminar (1 cr) Lec 1, Prereq: Permission. Student presentations of food science literature and research.

455/855. Microbiology of Fermented Foods (2 cr) Lec 2, Lab 2, Prereq: BIOS 312, BIOC 321. Microorganisms used in fermentation and the effects of processing and manufacturing conditions on production of fermented foods.


596. Independent Study in Food Science and Technology (1-5 cr, max 12) Prereq: Permission. Independent study of the microorganisms in foods and the methods used to study them as discussed in FDST 405/805.

620. Fruit and Vegetable Technology (3 cr) Lec 1, Lab 3, Prereq: FDST 205. O-fled fall semester of odd-numbered calendar years. Chemistry and technology of the cereal grains Post-harvest processing and utilization for food and feed. Current industrial processes and practices, with an explanation of the theoretical basis for these operations.

622. Food Science and Technology Seminar (1 cr) Lec 1, Prereq: Permission. A structured practical experience under the supervision of a professional in grazing livestock systems.

796. Independent Study in Food Science and Technology (1-5 cr, max 12) Prereq: Permission. Independent study of the microorganisms in foods and the methods used to study them as discussed in FDST 405/805.

Center for Grassland Studies/College of Agricultural Sciences and Natural Resources

**Courses of Instruction (GRAS)**

**Grazing Livestock Systems**

- **Major Requirements**
  - **Hours**
  - **College Integrative Courses**
    - College of Agricultural Sciences and Natural Resources: 6
    - Agricultural, Food, and Natural Resource Systems: 3
  - **Hours**
  - **Mathematics and Statistics** (beyond college algebra): 5
  - Select from MATH 102, 104, 106 and STAT 218.

**Note:** Proficiency at the college algebra level must be demonstrated either by a placement exam or through coursework. If MATH 103 is taken, only 2 crs can be counted toward this requirement.
Communication..................................................9
Written Communication........................................3
Select from: EN GL 150, 151, 254; GEN 120, 200, 300
Oral Communication............................................4
Select from: COMM 209, 311; ALEC 309
Communication and Information Skills Elective..3
Select from: Any communication above, ALEC 309

Natural Sciences .............................................29-28
AGRO 315 General Ecology.....................................4
Select two: BIO S 101 & 101L General Biology & Lab (4 cr)
BIO S 102 Cell Structure & Function (4 cr)
BIO S 103 Organic Biology (4 cr)
(102 & 103 preferred)
Select one of the following five: 8–12
CHEM 105 & 106 Chemistry in Context I & II (8 hrs)
CHEM 109 & 110 General Chemistry I & II and CHEM 251 & 253 Organic Chemistry I & Lab (12 hrs)
M SY M 109 Physical Principles of Agriculture or PHY S 151 Elements of Physics...........................................4

Humanities, Social Sciences, and Natural Sciences........................41
ECON 212 Principles of Microeconomics........... 3
Select one of the following:
AGRO 366 Soil Nutrient Management ...............3
AGRO 368 Forage Crop & Range Management.......4
AGR S 101 Animal Nutrition & Feeding...............3
AGRO/RNGE 240 Forage Crop & Range Management........3
AGRO/RNGE 104 Animal Breeding.......................3
Free Electives..................................................7-11
Total for Graduation........................................128

*Students interested in federal employment in range management must take AGRO/RNGE 442 and 444.

College Integrative Courses.................................6
AGR / NR ES 103 Intro Agricultural & Natural Resource Systems........................................3
PGM P 489 Professional Golf Management Integration........................................3
Mathematics and Statistics (beyond college algebra)........................................5
Select from: MATH 102, 104, 106 and STAT 218.

PGM Degree Requirements

Director: Professor Terrance P. Riordan, 219 Kem HALL
Faculty Advisory Committee: H eng-M oos (entomology); H orst, Shearman (horticulture); Schnepf (nutritional science and dietetics); Zorn (finance)

The Professional Golf Management major is designed for students who wish to be educated in all aspects of the golf industry and become PGA members. This comprehensive program blends college academic requirements with requirements of the Professional Golfers’ Association of America’s Professional Golf Management Program (PGA / PGM®), and includes structured internship experiences. The purpose of the program is to produce a graduate that has a basic background in managing golf facilities and related organizations, business and personal management, recreational, and golf instruction methods. Upon graduation, a student is eligible for the PGA Class “A” membership. The program’s Web site is pgm.unl.edu

CASNR Requirements

College Integrative Courses.................................6
AGR / NR ES 103 Intro Agricultural & Natural Resource Systems........................................3
PGM P 489 Professional Golf Management Integration........................................3
Mathematics and Statistics (beyond college algebra)........................................5
Select from: MATH 102, 104, 106 and STAT 218.

NOTE: Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. If MATH 103 is taken, only 2 cr hrs can be counted toward this requirement.

Communications...............................................9
Written Communication........................................3
Select from: EN GL 150, 151, 254; GEN 120, 200, 300
Oral Communication............................................3
Select from: COMM 209, 311, 323 or 311
ALEC 102 Interpersonal Skills for Leadership........................................3

Natural Sciences...............................................8
BIO S 101 & 101L General Biology & Lab or BIO S 109 General Botany........................................4
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry I........................................4

Humanities and Social Sciences (requirements for ES/IS credit)........................................21
ECON 211 Principles of Microeconomics...........3
ECON 212 Principles of Macroeconomics............4
ECON 215 Principles of Macroeconomics............4
ECON 216 Principles of Macroeconomics............4
ECON 217 Principles of Macroeconomics............4
Select one of the following five: 10
CAS NR Essentials categories: (For the list of ES/IS courses see “Essential Studies Program List” on page 37.)

Supporting Courses...........................................12
To be planned with adviser.

Economics.......................................................2
Acct 201-202 Introductory Accounting; any
ACCT 201-202 Intro Accounting I; any
BSAD 150 Business Computer Applications
FINA 361 Finance.................................................3
M GT 320 Principles of Management.....................3
M GT 361 Personnel/Human Resource Management.............................................3
M RKT 341 M arketing.............................................3

Plant Sciences (CASNR)........................................9
AGRO 131 & 132 Intro to Agronomy & Lab or HORT 130 Intro to Horticulture Science........................................4
AGRO 153 Soil Sciences...........................................4
HORT 327 Turfgrasses Management....................3

Food Service Management (Education and Human Sciences)........................................9
N UTR 244 Scientific Principles of Food Preparation........................................3
N UTR 245 Scientific Principles of Food Preparation Lab........................................1
N UTR 372 Food Safety & Sanitation........................................3
N UTR 374 M enu & Service Management................2

Supporting Course.............................................1
ATHC 279 Coaching Effectiveness........................................3
PGM P 101 Intro to Professional Golf Management.............................................2
PGM P 201 Professional Golf Management Program: Level 1.............................................2
PGM P 201 Professional Golf Management Program: Level 2.............................................2
PGM P 401 Professional Golf Management Program: Level 3.............................................2

Electives

Specialization: Select 15 hours from the following major electives, with at least one course from three different areas, plus an additional 13 hours of free electives.

Business................................................................ 19
ACCT 201 Introductory Accounting I........................................3
ACCT 202 Intro Accounting II........................................3
BSAD 150 Business Computer Applications
FINA 361 Finance.................................................3
M GT 320 Principles of Management.....................3
M GT 361 Personnel/Human Resource Management.............................................3
M RKT 341 M arketing.............................................3

Electives.........................................................15
Business
M GT 321 Business Plan Development..................3
M GT 331 O perations & Resources Management.............................................3
M GT 421 Entrepreneurship & Venture Management.............................................3
M RKT 345 M arketing Research..........................3
M RKT 347 M arketing Communication..................3
M RKT 425 Retailing Management.........................3
M RKT 428 Sports M arketing.....................................3
M RKT 442 M arketing Management.........................3
M RKT 443 Consumer Behavior & Marketing Aspects.............................................3
Leadership & Interpersonal Skills
ALEC 202 Leadership in Small Groups & Teams..................................................3
ALEC 302 Dynamics of Effective Leadership in Organizations.............................................3
ALEC 410 Environmental Leadership.............................................3
N atural Sciences
AGRO 386 Soil Nutrient Management..................3
ENTO 115 Insect Biology...........................................3
ENTO 116 Insect Identification.....................................3
ENTO 303 H orticultural Insects..........................3
HORT 200 Landscape & Environmental Appreciation.............................................3
HORT 212 Landscape Plants I.....................................3

Area C. Human Behavior, Culture & Social Organization
Area E. Historical Studies
Area F. Humanities
Area G. Arts
Area H. Race, Ethnicity & Gender
NOTE: One 3-credit course with an international focus is to be selected from the list under “International Agriculture and Natural Resources Minor” on page 48.
**Horticulture/ College of Agricultural Sciences and Natural Resources**

### Courses of Instruction (PGMP)

**1. Introductory to Professional Golf Management**
   - **PGMP 101.** Professional Golf Management Program: Level 1. Lecture/Lab. Prerequisites: Admission to PGMP. 4 cr. Focuses on golf as a business tool, customer relations, and an awareness of consumer needs. Credit/no credit only.

**2. Professional Golf Management Program: Level 2**
   - **PGMP 201.** Professional Golf Management Program: Level 2. Lecture/Lab. Prerequisites: Admission to PGMP. 3 cr. Focuses on golf as a business tool, customer relations, and an awareness of consumer needs. Credit/no credit only.

**3. Professional Golf Management Program: Level 3**
   - **PGMP 301.** Professional Golf Management Program: Level 3. Lecture. Prerequisites: Admission to PGMP. 3 cr. Focuses on golf as a business tool, customer relations, and an awareness of consumer needs. Credit/no credit only.

### Horticulture

**Head:** Professor Mark Lagrimini, Department of Agronomy and Horticulture, 279 Plant Science
**Professors:** Fitzgerald, Gausoin, Gustafson, Hirst, Paparozzi, Read, Riordan, Shearman

**Associate Professors:** Rodie, Sutton

**Assistant Professor:** Todd

**Lecturer:** Lisa Simmons

### Horticultural Requirements

Horticulture requires a broad education including knowledge of production, management, improvement, distribution, processing, and utilization of fruits, vegetables, ornamentals, and turf. Horticulture relies on an understanding of the basic sciences and involves competence in communication, aesthetic appreciation, and an awareness of consumer needs.

### Major Requirements

The following basic courses are required for the horticulture major.

#### College Integrative Course
   - **AGRI/NRES 103.** Food, Agricultural & Natural Resources Systems. 3 cr.

#### Horticulture
   - **Arts & Sciences:**
     - **PGMP 201.** Professional Golf Management Program: Level 2. Lecture/Lab. Prerequisites: Admission to PGMP. 4 cr. Focuses on golf as a business tool, customer relations, and an awareness of consumer needs. Credit/no credit only.
     - **PGMP 301.** Professional Golf Management Program: Level 3. Lecture. Prerequisites: Admission to PGMP. 3 cr. Focuses on golf as a business tool, customer relations, and an awareness of consumer needs. Credit/no credit only.

#### Communications
   - **Written Communication:**
     - **PGMP 201.** Professional Golf Management Program: Level 2. Lecture/Lab. Prerequisites: Admission to PGMP. 4 cr. Focuses on golf as a business tool, customer relations, and an awareness of consumer needs. Credit/no credit only.
     - **PGMP 301.** Professional Golf Management Program: Level 3. Lecture. Prerequisites: Admission to PGMP. 3 cr. Focuses on golf as a business tool, customer relations, and an awareness of consumer needs. Credit/no credit only.

#### Natural Sciences
   - **PGMP 489.** Capstone course for the PGMP major. Pulls together knowledge gained from the core courses, internships, and other aspects of the PGMP Program. 4 cr.

### Humans and Social Sciences

- **ECON 211.** Principles of Macroeconomics. 3 cr.

### Total Option Requirement

**Total Option Requirement:** 71-72 cr.

### Total Requirement for Graduation

**Total Requirement for Graduation:** 128 cr.
Landscape Management Option

Landscape horticulture and management option graduates are qualified to manage private and public landscapes as a business. They also are trained to manage and implement landscape designs for the landscape and nursery industry.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Capstone Course</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MATH 102 Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHEM 105 Chemistry in Context I</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics and Analytical Skills (beyond college algebra)</td>
<td>5-6</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Plant Science</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>A minimum of 25 hours must be selected from the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENTO 115 Insect Biology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENTO 116 Insect Identification</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ENTO 303 Horticulural Insects</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>HORT 200 Landscape &amp; Environmental Appreciation</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>HORT 212 Landscape Plants I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HORT 213 Landscape Plants II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HORT 214 Herbaceous Landscape Plants</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HORT 362 Nursery Crop Production</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MNGT 360 Intro to Plant Pathology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Horticulture Electives</td>
<td>9-12</td>
<td></td>
</tr>
<tr>
<td>Select at least three of the following courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HORT 260 Cut Flower, Perennial, Pot &amp; Bedding Plant Production</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HORT 262 Floral Design I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HORT 263 Nursery Crop Production</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HORT 264 Floriculture</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Horticulture Electives</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Free Electives</td>
<td>7-17</td>
<td></td>
</tr>
<tr>
<td>Total Option Requirement</td>
<td>71-72</td>
<td></td>
</tr>
</tbody>
</table>

Production Option

This option prepares students for production, marketing, and sales careers in nursery, field, and greenhouse grown ornamentals, fruits and vegetables.

This option is met by completing the courses listed under the horticulture core curriculum plus the following:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Capstone Course</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MATH 102 Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHEM 105 Chemistry in Context I</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics and Analytical Skills (beyond college algebra)</td>
<td>5-6</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Biological Sciences

AGRO 315 Genetics | 4 |
AGRO 325 Intro to Plant Physiology | 4 |

Plant Science

A minimum of 25 hours must be selected from the following courses: |  |
ENTO 115 Insect Biology | 3 |
ENTO 116 Insect Identification | 1 |
ENTO 303 Horticulural Insects | 2 |
HORT 200 Landscape & Environmental Appreciation | 4 |
HORT 212 Landscape Plants I | 3 |
HORT 213 Landscape Plants II | 3 |
HORT 260 Cut Flower, Perennial, Pot & Bedding Plant Production | 3 |
HORT 325 Greenhouse Practices & M anagement | 4 |
HORT 362 Nursery Crop Production | 3 |
PLPT 369 Intro to Plant Pathology | 3 |

Horticulture Electives | 9-12 |
Select at least three of the following courses: |  |
HORT 260 Cut Flower, Perennial, Pot & Bedding Plant Production | 3 |
HORT 262 Floral Design I | 3 |
HORT 263 Nursery Crop Production | 3 |
HORT 264 Floriculture | 3 |
Horticulture Electives | 8 |
Free Electives | 7-17 |
Total Option Requirement | 71-72 |

Plant Science Option

Students in the graduate study option are preparing for careers in which the basic understanding of the science of growth and development of fruit, nut, floricultural and ornamental, vegetable or turf crops is critical to success. This option also prepares students to seek a master of science and/or doctor of philosophy degree. These degrees are necessary for students considering teaching at the college or university level as well as upper-level employment/research for green industry companies or universities.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Capstone Course</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MATH 102 Trigonometry</td>
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<td></td>
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<td>Mathematics and Analytical Skills (beyond college algebra)</td>
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<td>Natural Sciences</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Biological Sciences

AGRO 315 Genetics | 4 |
AGRO 325 Intro to Plant Physiology | 4 |

Plant Science

A minimum of 25 hours must be selected from the following courses: |  |
ENTO 115 Insect Biology | 3 |
ENTO 116 Insect Identification | 1 |
ENTO 303 Horticulural Insects | 2 |
HORT 200 Landscape & Environmental Appreciation | 4 |
HORT 212 Landscape Plants I | 3 |
HORT 213 Landscape Plants II | 3 |
HORT 260 Cut Flower, Perennial, Pot & Bedding Plant Production | 3 |
HORT 325 Greenhouse Practices & M anagement | 4 |
HORT 362 Nursery Crop Production | 3 |
PLPT 369 Intro to Plant Pathology | 3 |

Horticulture Electives | 9-12 |
Select at least three of the following courses: |  |
HORT 260 Cut Flower, Perennial, Pot & Bedding Plant Production | 3 |
HORT 262 Floral Design I | 3 |
HORT 263 Nursery Crop Production | 3 |
HORT 264 Floriculture | 3 |
Horticulture Electives | 8 |
Free Electives | 7-17 |
Total Option Requirement | 71-72 |

Turfgrass Science Option

The turfgrass science option emphasizes plant and basic sciences as related to resources in highly managed and natural ecosystems. This option is designed for students with career interest in the production (or management of production) of sod; establishment and maintenance of recreational, commercial, or residential turf management of enterprises in which turf is a basic medium for recreational activity; management of turf-related aspects of general nursery and garden center operations. The turfgrass science option permits a selection of courses in plant sciences and business so the program can be tailored to an individual student career and professional goals.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Capstone Course</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
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<td>MATH 102 Trigonometry</td>
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<tr>
<td></td>
<td>CHEM 105 Chemistry in Context I</td>
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<tr>
<td>Mathematics and Analytical Skills (beyond college algebra)</td>
<td>5-6</td>
<td></td>
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<tr>
<td>Natural Sciences</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Biological Sciences

AGRO 315 Genetics | 4 |
AGRO 325 Intro to Plant Physiology | 4 |

Plant Science

A minimum of 25 hours must be selected from the following courses: |  |
ENTO 115 Insect Biology | 3 |
ENTO 116 Insect Identification | 1 |
ENTO 303 Horticulural Insects | 2 |
HORT 200 Landscape & Environmental Appreciation | 4 |
HORT 212 Landscape Plants I | 3 |
HORT 213 Landscape Plants II | 3 |
HORT 260 Cut Flower, Perennial, Pot & Bedding Plant Production | 3 |
HORT 325 Greenhouse Practices & M anagement | 4 |
HORT 362 Nursery Crop Production | 3 |
PLPT 369 Intro to Plant Pathology | 3 |

Horticulture Electives | 9-12 |
Select at least two of the following courses: |  |
HORT 260 Cut Flower, Perennial, Pot & Bedding Plant Production | 3 |
HORT 325 Greenhouse Practices & M anagement | 4 |
HORT 352 Fruit & Vegetable Science | 4 |
HORT 425 Turfgrass Science & Culture | 4 |
 Independent Study | 1-3 |
Free Electives | 7-14 |
Total Option Requirement | 71-72 |

Business Option

Students in the horticulture business option are preparing for careers in business aspects of commercial horticulture.

<table>
<thead>
<tr>
<th>Hours</th>
<th>College Capstone Course</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MATH 102 Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHEM 105 Chemistry in Context I</td>
<td>4</td>
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<tr>
<td>Mathematics and Analytical Skills (beyond college algebra)</td>
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</table>

Biological Sciences

AGRO 315 Genetics | 4 |
AGRO 325 Intro to Plant Physiology | 4 |

Plant Science

A minimum of 25 hours must be selected from the following courses: |  |
ENTO 115 Insect Biology | 3 |
ENTO 116 Insect Identification | 1 |
ENTO 303 Horticulural Insects | 2 |
HORT 200 Landscape & Environmental Appreciation | 4 |
HORT 212 Landscape Plants I | 3 |
HORT 213 Landscape Plants II | 3 |
HORT 260 Cut Flower, Perennial, Pot & Bedding Plant Production | 3 |
HORT 325 Greenhouse Practices & M anagement | 4 |
HORT 362 Nursery Crop Production | 3 |
PLPT 369 Intro to Plant Pathology | 3 |

Horticulture Electives | 9-12 |
Select at least three of the following courses: |  |
HORT 260 Cut Flower, Perennial, Pot & Bedding Plant Production | 3 |
HORT 262 Floral Design I | 3 |
HORT 263 Nursery Crop Production | 3 |
HORT 264 Floriculture | 3 |
Horticulture Electives | 8 |
Free Electives | 7-14 |
Total Option Requirement | 71-72 |
Horticulture Minor, Biological Sciences Minor

Students in the science, production, or turfgrass option must take 14 additional hours (AGRO 315 substitutes for BIO S 206) as specified under “Requirements for the M inor in Biological Sciences” on page 144 of this bulletin and 8 additional chemistry credits. Refer to “Requirements for the Minor in C hemistry” on page 144 of this bulletin and see your adviser.

Horticulture Major, Mathematics Minor

Students in the science, production, or turfgrass option can obtain a minor in mathematics by fulfilling the option requirements (take MATH 106 as your required mathematics course) plus MATH 107 and 208. Two or three advanced courses may also be required dependent on the plan chosen. Refer to “Requirements for the Minor in Mathematics” on page 185 of this bulletin and see your adviser.

Horticulture Minor

A minor in horticulture consists of a minimum of 18 credit hours of horticulture including 6-8 hours at the 300 level or above. Advisers for the horticulture minor will be assigned by the head of the Department of Agriculture and Horticulture. Requirements are as follows:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-12</td>
<td>HORT 130 Intro to Horticulture Science (4 cr)</td>
<td>Core</td>
</tr>
<tr>
<td></td>
<td>HORT 200 Landscape &amp; Environmental Appreciation or HORT 260 Cut Flowers, Perennials, Potting &amp; Bedding Plant Production or HORT 261 Floral Design (3 cr)</td>
<td></td>
</tr>
</tbody>
</table>

Horticulture Courses (10-12)

ACCT 306 Survey of Accounting (4 cr)

ACCT 201 & 202 Introductory Accounting (6 cr)

FINA 361 Finance (3 cr)

MNGT 361 Principles of Management (3 cr)

MNGT 361 Personnel/Human Resources Management (3 cr)

MRT 341 Marketing (3 cr)

Free Electives (27-30)

Total Option Requirement (71-72)

Landscape Architecture Minor

A landscape architecture minor is offered jointly by the Colleges of Architecture and Agricultural Sciences and Natural Resources. It consists of 18-20 credit hours. All those wishing to complete the minor must take selected courses plus the core courses.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>ARCH 240 History of Architecture</td>
<td>Core</td>
</tr>
<tr>
<td></td>
<td>ARCH 360 Site Context Issues</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HORT 200 Landscape &amp; Environmental Appreciation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HORT 498 Topics in Landscape Architecture</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Select from:</td>
<td>Horticulture Majors</td>
</tr>
<tr>
<td></td>
<td>ARCH 106 Intro to Design</td>
<td></td>
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<tr>
<td></td>
<td>ARCH 340 Architecture History Theory I</td>
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</tr>
<tr>
<td></td>
<td>ARCH 442 Contemporary Architecture</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CPL 400 Intro to Planning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CPL 477 Recreation &amp; Park Planning</td>
<td></td>
</tr>
<tr>
<td>8-10</td>
<td>Select at least one from:</td>
<td>Architecture Majors</td>
</tr>
<tr>
<td></td>
<td>HORT 130 Intro to Horticulture Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HORT/NRES 212 Landscape Plants I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HORT 214 Herbaceous Perennials</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HORT 266 Intro to Landscape Design (4 cr)</td>
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<tr>
<td></td>
<td>HORT 300 Intro to Landscape Construction</td>
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<tr>
<td></td>
<td>HORT/JARCH 467 Planting Design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HORT/JARCH 469 Senior Design</td>
<td></td>
</tr>
</tbody>
</table>

Other majors select at least two courses from either of the above horticulture or architecture groups, one at the 100 level and one or more at the 300 or 400 level in addition to the core, to total at least 18 credit hours. Certain of the core and selected courses have prerequisites or are offered once per year. Students who wish to minor in landscape architecture should consult with their adviser early in their program.

Courses of Instruction (HORT)

The courses provide:

1. Knowledge of the potentials and limitations of plant resources.
2. An introduction to horticultural science and practices.
3. An intensive study in individual phases of horticulture.
4. Opportunity for research.

For course descriptions, see AGRO 153.

159. Current Topics in Plant 120 Protection (PLPT, AGRO, ENTO 260) (3 cr I) Lec 1. Prereq: Sophomore standing. For course description, see PLPT 260.

160. Current Topics in Plant 120 Protection I (PLPT, AGRO, ENTO 160) (3 cr I) Lec 1. For course description, see PLPT 160.

170. Residential Landscape Design (2 cr II) Lec 1 lab/disc 2. Introductory course in home landscaping focusing on basic design elements and processes. Students prepare a program, analyze a dwelling and site, determine a phased budget, conceptualize a layout, and select detailed elements and techniques to implement a design for an actual residence.

For course description, see AGRO 216.

199. Plant Propagation (3 cr II) Lec 2, lab 2. Prereq: HORT 130. Requires Saturday off-campus field trips. Identification using botanical and common names for herbaceous annuals, perennial grasses, ground covers, vines, trees, and shrubs commonly found in Great Plains gardens, parks, and landscapes is stressed through field visits.

194. Herbaceous Landscape Plants (3 cr III) Lec 3. Prereq: HORT 200. Site requirements, landscape use, natural history, and specific needs of herbaceous ornamentals, grasses, ground covers, vines, trees, and shrubs commonly found in Great Plains gardens, parks, and landscapes. Common cultivars and additional species not covered in HORT/LARC/NRES 212.

61. Residential Landscape Design (2 cr II) Lec 1. Prereq: High school biology and chemistry. BIO S 101 and 101L, or 102 or equivalent recommended. For course description, see AGRO 216.

200. Plant Breeding Principles and Practice (AGRO, BIO S 216) (2 cr) Lec 2. Prereq: High school biology and chemistry. BIO S 101 and 101L, or 102 or equivalent recommended. For course description, see AGRO 216.
360. Basic Fruit Production (3 or 4 cr) Lec 2, lab 2, rec 1. Prereq: HORT 130, 132, 198. 0.5 credited on average of the year.

Principles underlying the management of orchards and small fruits. Includes site selection, culture, pruning, thinning, rootstock and scion relationships, and pest and insect management.

362. Fruit and Vegetable Science and Culture (3 or 4 cr) Lec 1, lab 1. Prereq: HORT 130 or equivalent. 0.5 credited on average of the year.

Management and production of fruits and vegetables. Production practices and processes for fresh and processed markets, field and greenhouse container gardening.

A. Fruits (3 cr) Lec 2, lab 1. Prereq: HORT 130 or equivalent.

B. Vegetables (3 cr) Lec 2, lab 1. Prereq: HORT 130 or equivalent.

365. Nursery Crop Production Management (4 cr) Lec 3, rec 2, lab 3. Prereq: HORT 130 and 221. 0.5 credited on average of the year.

Principles underlying the production of nursery crops and the profitable management of a nursery. Includes propagation, transplanting, handling, and transportation of nursery crops as well as cultural considerations such as media, fertilizers, and pest control. Economic aspects of running a business.

370. Biology of Fungi (AGRO/PLPT 370) (3 or 4 cr) Lec 1, rec 1. Prereq: HORT 130 or biological sciences.

For course description, see PLPT 370.

390. Current Topics in Plant Protection (III) (PLPT, AGRO, ENTO 390) (1 or 2 cr) Lec 1 or 2. Prereq: Junior standing. 0.5 credited on average of the year.

For course description, see PLPT 390.

395. Career Experience (1-5 cr, max 1, 1, 1, 11) Prereq: Sophomore standing in landscape architecture major, advance approval from instructor. Participation must be in a horticulture enterprise other than those in which the student has had previous experience. A written and oral report is completed at the end of the career experience.

399. Independent Study (1-3 cr, max 1, 1, 1, 11) Prereq: Independent or group research, or teaching assistantship position, advance approval and/or research focusing on current aspects of horticulture.

399. Independent Study (1-3 cr, max 12, 1, 1, 11) Prereq: Junior standing. 12 hours plant science; advance approval of plan of work; and permission. On or written reports are mandatory at the end of the 12-hour period or earlier. Individual or group projects in research, literature review, or extension of course work under supervision and evaluation of a governmental faculty member.

406. Plant Ecophysiology: Theory and Practice (AGRO, NRES 406/806) (3 cr) Lec 3. Prereq: Senior standing. 3 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see NRES 406/806.

407. Bio-Aerospheric Instrumentation (AGRO, GEOG, M S M T R, NRES 469/869) (3 cr) Lec 3, lab 1. Prereq: Junior standing; MATH 106; 4 hours physics or biological science major. 0.5 credited on average of the year.

For course description, see NRES 469/869.

408. Microclimate: The Biological Environment (AGRO, GEOG, M S M T R, NRES 408/808) (3 cr) Lec 3. Prereq: Senior related species courses. 3 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see NRES 408/808.

409. Horticulture Crop Physiology (NRES 409) (3 or 4 cr) Lec 3. Prereq: Senior standing. 3 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

Application of physiological principles to the growth, development, and survival of herbaceous and woody plants.

418. 813. Agroforestry Systems in Sustainable Agriculture (NRES 417/817) (3 cr) Lec. 3. Prereq: 12 hours biological or agricultural sciences. 3 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see NRES 417/817.

424. 824. Plant Nutrition and Nutrient Management (AGRO 424/824) (3 cr) Lec 2, Lab 2. Prereq: AGRO 135 or equivalent. 2 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see AGRO 424/824.

428. 828. Turfgrass Science and Culture (AGRO 428/828) (3 cr) Lec 3. Prereq: AGRO 135 or equivalent. 3 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see AGRO 428/828.

429. 829. Agroecology (NRES 435/835) (3 cr) Lec 3. Prereq: Junior standing; MATH 106; 4 hours physics or biological science major. 0.5 credited on average of the year.

For course description, see AGRO 435/835.

436. 836. Agroecosystems Analysis (AGRO 436/836) (3 cr) Lec 3. Prereq: Senior standing. 3 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see AGRO 436/836.

441. 841. Perennial Plant Function, Growth, and Development (AGRO 441/841, L R C G 441) (3 or 4 cr) Lec 3. Prereq: AGRO 325 or equivalent. 3 or 4 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see AGRO 441/841.

452. 852. Irrigation Systems Management (AGRO, M S M T R 452/852, WATS 452/852) (3 or 4 cr) Lec 2, lab 2. Prereq: M S M T R 109 or general physics. 2 or 3 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see AGRO 452/852.

467. Plant Designing (ARCH 467/567/867, LARC 467) (4 cr) Lec 4. Prereq: HORT/LARC/LARC 210 or HORT/LARC 266. 4 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see ARCH 467/567/867, LARC 467.

589. 899. Masters Thesis (AGRO, BIOC, BIOS *810) (3 or 11) Ind. Prereq: Senior standing. 3 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see AGRO 899.

598. 898. Business Management for Horticultural Enterprises (AGRO/CRPL, LARC 498/898) (3 or 4 cr) Lec. Prereq: HORT 325 or 362 or 470. 4 or 5 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see AGRO 498/898.

599. 899. Urbanization of Rural Landscapes (AGRO/CRPL, LARC 499/899) (3 or 4 cr) Lec. Prereq: Senior standing. 4 or 5 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

For course description, see AGRO 499.

701. Plant Molecular Biology (AGRO, BIOC, BIOS *810) (3 or 11) Lec. Prereq: AGRO 315 or Bios 206, Bios 831 or permission.

810. Plant Tissue Culture (BIOC, NRES 810) (4 or 5 cr) Lec 2, lab 4. Prereq: AGRO 109, AGRO 325 which includes Chem 109 and Bios 210, or equivalent. 4 or 5 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

118. 812. Landscape Ecology (BIOC, NRES 812) (3 or 11) Lec 3, lab 3. Prereq: 12 hours plant science or biological sciences. 3 or 4 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

822. Integrated Weed Management (AGRO *822) (1 cr) Lec 1. Prereq: 12 hours AGRO and/or closely related HORT and/or Bios courses.

840. Woody Plant Growth and Development (NRES, BIOC 840) (3 or 4 cr) Lec 2. Prereq: CHEM 151, and AGRO 325. 3 or 4 hours plant science; advance approval of plan of work; and permission. 0.5 credited on average of the year.

866. Independent Study (1-5 cr, max 1, 1, 1, 11) Prereq: 12 hours plant science, permission, and advance approval of plan of work.

899. Masters Thesis (6 or 10 cr, max 1, 1, 11) Ind. Prereq: Refer to the Graduate Bulletin for 900-level courses.
Hospitality, Restaurant and Tourism Management

Curriculum Committee Co-Chairs: Fayrene H. Amouz, Daniele W. Heeter
Professors: M. Arlynn Schnepf, Susan Fritz

The bachelor of science in hospitality, restaurant and tourism management is jointly offered by the College of Agricultural Sciences and N atural Resources and the College of Education and Human Sciences. The hospitality, restaurant and tourism management program prepares individuals to serve as general managers and directors of hospitality operations by providing an excellent foundation in hospitality, leadership and business.

The program integrates hospitality marketing strategies, communications and financial management into a curriculum focused on managing facilities and operations that provide hospitality services.

Students select from two options offered by the College of Agricultural Sciences and Natural Resources Eco tourism and Parks and Recreation or six options offered the College of Education and Human Sciences Food and Beverage Lodging, Convention and Meeting Planning, Journalism and Mass Communications, The Culinary Arts-Hospitality Management Club sponsors student competitions and campus events. Student finding for study abroad or attendance at professional meetings is supported by catering activities.

The minimum of 128 credit hours required for graduation includes two mini-internships early in the program and a 6-credit hour internship completed at the end of the academic program.

Core Curriculum

Landscape Architecture/College of Agricultural Sciences and Natural Resources 77

The following courses are required for the mechanized systems management major in the Department of Biological System Engineering. In addition to these courses, students in the mechanized systems management major elect and meet the requirements of one of the options.

Core Curriculum

The Landscape Architecture professional degree program is a joint program offered by the College of Agricultural Sciences and Natural Resources and the College of Architecture. Courses in the five-year bachelor of landscape architecture degree program will be taught in the College of Architecture's programs in architecture and community and regional planning, and the College of Agricultural Sciences and Natural Resources' Department of Agriculture and Horticulture. The program is administered by the College of Architecture. The college offers professional degree programs in landscape architecture and urban planning. The program focuses on the planning and design of landscapes, urban areas, and rural settings. The program prepares students for careers in the field of landscape architecture, urban planning, and related fields.

Mechanized Systems Management

Head: Professor Ron Yoder, 223 Chase Hall
Associate Professors: Dvorak, Franti, H. Gray, Kocher, Koehl, Kranz, Wold, Yents
Assistants: Adamchuk, Bashford, Irmak, Kranz, O'Byrne, Shelton, Smith, Swoboda, Subiah

Machinery, machines, natural resources, people and money are integrated systems for agriculture and associated commodity handling industries describes the profession of mechanized systems management. The mechanized systems management major prepares students for success in the delivery, management, and technical support of systems for food and agriculture. Mechanized systems management is tailored for students whose interests lie primarily in the application, operation, and management of equipment (field, irrigation, and processing), natural resources (soil, water, and air), and commodity handling and processing facilities in engineered systems. This program focuses on mechanical, electronic, hydraulic, and pneumatic components in these systems.

In designing a program, students will couple coursework in the core curriculum with the options listed under one of the options. The options are agricultural operations, mechanization science, processing operations and merchandising science.

Upon graduation, M.S. graduates will:

• have a basic understanding of physical and biological sciences, social sciences and humanities;
• have developed essential communication and leadership skills;
• have a fundamental background in scientific agriculture;
• understand the function, layout, application, and management of agricultural equipment and mechanized operations;
• be able to integrate equipment in systems;
• have an opportunity to specialize in business or further education;
• understand that professionalism involves continuing education.
Mechanization Marketing Option

This option combines the principles of engineered systems and their management with a focus in business, agriculture, and mechanization. Opportunities for employment include operations managers for grain elevators, distributor, or construction enterprises sales representatives for agricultural machinery manufacturers, or commodity handling and processing facilities and agricultural representatives for financial institutions. Within this option, there are two areas of specialization, the General Business Specialization and the John Deere Dealership Management program.

Option Requirements

Select one 3-credit course from each of the following four areas:

- **Business Law**
- **AECN 256 Legal Aspects in Agriculture (3 cr)**
- **AECN 357 Natural Resources & Environmental Law (3 cr)**
- **BLAW 371 Legal Environment (3 cr)**

- **Finance**
- **AECN 452 Agricultural Finance (3 cr)**
- **ECON 303 An Intro to Money & Banking (3cr)**
- **FINA 361 Finance (3 cr)**

- **Management**
- **AECN 316 Agricultural Management (3 cr)**
- **MGT 331 Operations & Resources Management (3 cr)**
- **MGT 361 Personnel/Human Resource Management (3 cr)**

- **General Business Specialization**

Select two courses from the following:

- **AECN 325 Marketing of Agricultural Commodities or AECN 225 Agribusiness & Food Products Marketing**
- **MGT 331 Operations & Resources Management**
- **MGT 361 Personnel/Human Resource Management**

Additional courses may be selected with the approval of the advisor.

Free Electives

Processing Operations Option

This option provides the principles of mechanization and management for students interested in processing agricultural commodities into food, feed, fiber, or fuel. Employment opportunities include the installation and operation of processing equipment and the management of facilities and personnel. This option will prepare an individual for graduate study.

Option Requirements

- **AECN 325 Marketing of Agricultural Commodities**
- **ASC 210 Animal Products**
- **CHEM 110 General Chemistry**
- **FDST 205 Food Composition & Analysis**
- **MATH 104 Calculus for the Managerial & Social Sciences**
- **MATH 106 Analytic Geometry & Calculus**
- **MATH 200 Calculus & Analytic Geometry**
- **MATH 206 Calculus II**
- **MATH 212 Calculus III**
- **MATH 235 Calculus IV**
- **MATH 303 Calculus V**
- **MATH 311 Linear Algebra**
- **MATH 320 Differential Equations**
- **MATH 330 Probability & Statistics**
- **MATH 340 Real Analysis**
- **MATH 400 Complex Analysis**
- **MATH 410 Partial Differential Equations**
- **MATH 420 Real Analysis II**
- **MATH 430 Topology**
- **MATH 440 Algebra II**
- **MATH 450 Numerical Analysis**
- **MATH 460 Mathematical Logic**
- **MATH 470 Probability & Statistics II**
- **MATH 480 Topics in Advanced Mathematics**
- **MATH 500 Senior Seminar**
- **MATH 510 Advanced Calculus**
- **MATH 520 Advanced Linear Algebra**
- **MATH 530 Advanced Algebra**
- **MATH 540 Advanced Real Analysis**
- **MATH 550 Advanced Complex Analysis**
- **MATH 560 Advanced Topology**
- **MATH 570 Advanced Probability & Statistics**
- **MATH 580 Advanced Mathematical Logic**
- **MATH 590 Advanced Topics in Mathematics**
- **MATH 600 Research Project**
- **MATH 610 Advanced Senior Seminar**
- **MATH 620 Advanced Differential Equations**
- **MATH 630 Advanced Complex Analysis**
- **MATH 640 Advanced Algebra II**
- **MATH 650 Advanced Real Analysis II**
- **MATH 660 Advanced Topology II**
- **MATH 670 Advanced Probability & Statistics II**
- **MATH 680 Advanced Mathematical Logic II**
- **MATH 690 Advanced Topics in Mathematics II**
- **MATH 700 Research Project**
- **MATH 710 Advanced Senior Seminar**
- **MATH 720 Advanced Differential Equations II**
- **MATH 730 Advanced Complex Analysis II**
- **MATH 740 Advanced Algebra III**
- **MATH 750 Advanced Real Analysis III**
- **MATH 760 Advanced Topology III**
- **MATH 770 Advanced Probability & Statistics III**
- **MATH 780 Advanced Mathematical Logic III**
- **MATH 790 Advanced Topics in Mathematics III**
- **MATH 800 Research Project**
- **MATH 810 Advanced Senior Seminar**
- **MATH 820 Advanced Differential Equations III**
- **MATH 830 Advanced Complex Analysis III**
- **MATH 840 Advanced Algebra IV**
- **MATH 850 Advanced Real Analysis IV**
- **MATH 860 Advanced Topology IV**
- **MATH 870 Advanced Probability & Statistics IV**
- **MATH 880 Advanced Mathematical Logic IV**
- **MATH 890 Advanced Topics in Mathematics IV**
- **MATH 900 Research Project**
- **MATH 910 Advanced Senior Seminar**
- **MATH 920 Advanced Differential Equations IV**
- **MATH 930 Advanced Complex Analysis IV**
- **MATH 940 Advanced Algebra V**
- **MATH 950 Advanced Real Analysis V**
- **MATH 960 Advanced Topology V**
- **MATH 970 Advanced Probability & Statistics V**
- **MATH 980 Advanced Mathematical Logic V**
- **MATH 990 Advanced Topics in Mathematics V**

Select two courses from the following:

- **AECN 201 Farm & Ranch Management**
- **AECN 256 Legal Aspects in Agriculture (3 cr)**
- **AECN 357 Natural Resources & Environmental Law (3 cr)**
- **BLAW 371 Legal Environment (3 cr)**
- **AECN 452 Agricultural Finance (3 cr)**
- **ECON 303 An Intro to Money & Banking (3 cr)**
- **FINA 361 Finance (3 cr)**
- **AECN 316 Agricultural Management (3 cr)**
- **MGT 331 Operations & Resources Management (3 cr)**
- **MGT 361 Personnel/Human Resource Management (3 cr)**
- **AECN 325 Marketing of Agricultural Commodities or AECN 225 Agribusiness & Food Products Marketing**
- **MGT 331 Operations & Resources Management**
- **MGT 361 Personnel/Human Resource Management**

Free Electives

Mechanized Systems Management Minor

A minimum of 18 credit hours of mechanized systems management course work (excluding M SY M 109) of which must be at the 300 level or above.
Courses of Instruction (MSYM)


245. Electrical Service Systems (3 cr I, II) Lec 1, Lab 3. Prereq: MSY M 109 or high school physics. Utilization of electric energy in agricultural production, processing and handling. Operational characteristics of field, farmedate materials handling, processing and their relationship to energy utilization and conservation in the agricultural industry.

299. Career Experiences (1-5 cr, max 12, I, II, III) Prereq: Permission and advanced approval of plan or work. Pass/No Pass only. Witten report usually required. Students participating in physical systems applications may include participation in mechanization-related areas of agriculture, production practices, and processing operations. Laboratory greenhouse and field; or preparation of teaching materials.


245. Electrical Service Systems (3 cr I, II) Lec 1, Lab 3. Prereq: MSY M 109 or high school physics. Utilization of electric energy in agricultural production, processing and handling. Operational characteristics of field, farmedate materials handling, processing and their relationship to energy utilization and conservation in the agricultural industry.

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299. Career Experiences (1-5 cr, max 12, I, II, III) Prereq: Permission and advanced approval of plan or work. Pass/No Pass only. Witten report usually required. Students participating in physical systems applications may include participation in mechanization-related areas of agriculture, production practices, and processing operations. Laboratory greenhouse and field; or preparation of teaching materials.
Requirements for the Major in Plant Biology

The core courses and one of the options must be completed.

Major Requirements

College Integrative Courses

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<th>Hours</th>
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<tr>
<td>AGRO/HORT/NRES 110 Exploring Plant Biology</td>
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<td>AGRO/ R N RES 295, 395, NRES 497</td>
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Career Experience

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<th>Courses</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AGRO/RNGE/SOIL 496, BIOS 498, HORT 396 or 399, NRES/PLPT 496</td>
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Independent Study/Current Project

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<td>3</td>
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Mathematical and Analytical Skills

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Communication

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Written Communication

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Oral Communication

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Natural Sciences

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Chemistry

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</thead>
<tbody>
<tr>
<td>CHEM 109 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 109 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 251 &amp; 253L Organic Chemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>

Physics

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 141 or higher</td>
<td>5</td>
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</tbody>
</table>

Biological Sciences

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 315 or BIOS 206 Genetics</td>
<td>4</td>
</tr>
<tr>
<td>AGRO 325 Introductory Plant Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 102 Cell Structure &amp; Function</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 103 Organic Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 109 General Botany</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 207 Ecology &amp; Evolution</td>
<td>4</td>
</tr>
<tr>
<td>BIOS 471 Plant Taxonomy</td>
<td>5</td>
</tr>
</tbody>
</table>

Humanities and Social Sciences

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALEC 388 Ethics in Agriculture &amp; Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>ECON 210, 211 or 212</td>
<td>3-5</td>
</tr>
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</table>

Essential Studies

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select courses from Essential Studies categories C, E, G, and H</td>
<td>1</td>
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</tbody>
</table>

Core total requirement

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 or 200, 300</td>
<td>3</td>
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Option requirements

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>311</td>
<td>5</td>
</tr>
</tbody>
</table>

Ecology and Management Option

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 153 Soil Resources</td>
<td>4</td>
</tr>
<tr>
<td>AGRO 444 Vegetation Analysis</td>
<td>4</td>
</tr>
</tbody>
</table>

Earth Sciences

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WDLS 200 Weather &amp; Climate</td>
<td>4</td>
</tr>
<tr>
<td>NRES 200 Intro to Bio-Atmospheric Resources</td>
<td>4</td>
</tr>
<tr>
<td>NRES 408 M ecroclimateThe Biological Environmental</td>
<td>4</td>
</tr>
<tr>
<td>WATS 281 Intro to Water Science</td>
<td>3-5</td>
</tr>
</tbody>
</table>

Geospatial Information Sciences

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS 312 Intro to Geospatial Information Sciences</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 412 Intro to Geographic Information Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Remote Sensing

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 422 R &amp; Range Plants</td>
<td>4</td>
</tr>
</tbody>
</table>

Animal-Organism Interactions

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 455 Great Plains Flora</td>
<td>4</td>
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</tbody>
</table>

Plant Identification

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 422 R &amp; Range Plants</td>
<td>4</td>
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</table>

Crop & Range Management & Improvement

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 420 Forage Crop &amp; Range M anagement</td>
<td>4</td>
</tr>
<tr>
<td>AGRO 420 Crop &amp; Weed Genetics</td>
<td>4</td>
</tr>
</tbody>
</table>

Plant and Food System Management

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 204 Resource-Efficient Crop M anagement</td>
<td>3</td>
</tr>
</tbody>
</table>

Principles of Weed Science

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 220 Principles of Weed Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Plant Protection

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 408 MicroclimatemThe Biological Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

Crop & Weed Genetics

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 411 Crop Genetic Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

Plant Ecology & Practice

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 412 Crop &amp; Weed Genetics</td>
<td>3</td>
</tr>
</tbody>
</table>

Applied Plant Biology

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 369. Interdisciplinary Plant Pathology</td>
<td>3</td>
</tr>
</tbody>
</table>

Plant Pathology

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO/HORT/NRES 270 (3 cr)</td>
<td>3</td>
</tr>
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</table>

Biological Invasions

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO/HORT/NRES 270</td>
<td>3</td>
</tr>
</tbody>
</table>

493. Interdisciplinary Plant Pathology                                   | 3     |

Electives

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>110. Molds and Mos (3 cr)</td>
<td></td>
</tr>
</tbody>
</table>

Plant Pathology

Head: Professor James R. Steadman, 406C Plant Sciences

Professors: Steadman, Van Etten, Partridge, Powers, Vidaire, Yuen

Associate Professors: Alfano, French, Giesler, Harris, H. H. Moses, M. Ira

Assistant Professors: Funnell, Jackson, Wegulo

An option in plant pathology is offered under the crop protection major, see “Plant Protection Sciences” on page 81.

Courses of Instruction (PLPT)

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>189H. University Honors Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Prereq: Guaranteed standing in the University honors program or by invitation. University honors Seminar 189H is required of all students in the university honors program.

Topic varies

250. Biotechnology: From Science to Society (3 cr) Lec. Prereq: Basic understanding of chemical applications, biological principles, and applications of recombinant DNA technology. The implications of DNA technology on agriculture, medicine, and the development of modern biotechnology.


250. Biological Invasions (AGRO/HORT/NRES 270) (3 cr) Prereq: 3 hrs biological sciences. Impact of exotic species and invasive organisms. Biological control; regulatory, monitoring, and control efforts; ecological impact.

369. Introductory Plant Pathology (AGRO, BIO 369) (3 cr) Lec. Prereq: Biologists 101 and 101L or 109. PLPT 300 is not an IS course and may not be used for D/F removal in PLPT 369. Credit towards the degree may be earned in only one of PLPT 300 or 369.


370. Biology of Fungi (AGRO/HORT 370) (3 cr) Prereq: 8 hrs biological sciences. Survey of fungi in natural and human ecosystems symbiotic relationships, as disease agents in humans, plants, and animals; applications in agriculture, food, and pharmaceutical industries.
475. Agricultural Biosecurity (3 cr) Lec. Prereq: 3 hrs BIOC, BIOS, PLPT, or ENTO and 3 hrs of science courses. Offered odd-numbered calendar years.

495. Internship in Plant Pathology (1-3 cr, max 5) Ind. Prereq: Junior standing. P Ast/No Pass only. Completion and approval of an internship proposal form is required before registering. Experience in a workplace setting that is directly related to Plant Pathology.

496. Independent Study (1-5 cr, max 5) Ind. Prereq: Advanced approval of the plan of study and permission. Individual or group projects. Research, literature review, extension of course work, or preparation of teaching materials.

498. Independent Research (1-3 cr, max 6) Prereq: Permission. Independent research in areas of plant pathology.

499H. Honors Thesis (3-6 cr, I, II, III) Prereq: Admission to the Honors Program and program, AGR 299H recommended. Conduct a scholarly research project and write a University Honors Program under graduate thesis.

864A. Principles of Plant Pathology I (3 cr) Lec/ dem 2. Prereq: PLPT 369 or equivalent and introduction to biochemistry or permission.

864B. Principles of Plant Pathology II (3 cr) Lec/ dem 2. Prereq: PLPT 369 or equivalent and Introduction to biochemistry or permission.

865. Insect Transmission of Plant Diseases (BIOS, ENTO, PLPT) (3 cr) Lec/ 1, Lab 1. Prereq: 8 hrs biological sciences including BIOS 464A, 464B, preceding or parallel and 6 hrs entomology or biological sciences (zoology). 0 or 60 even-numbered calendar years.

866A. Phytopathogenic Nematodes (3 cr) Lec 2, Lab 3. Prereq: BIOC 464A/864A or *864B or permission. Offered odd-numbered calendar years.

867. Plant Pathogenic Bacteria (3 cr) Lec 1, Lab 2, Lab 1 (optional). Prereq: BIOS 312, 464A, 464A, or *864B, and CHEM 331 or 332 or 432 or 436 or permission. Offered even-numbered calendar years.

869. Plant Pathogenic Fungi (3 cr) Lec 1, Lab 2. Prereq: BIOS 312, 464A, or *864B, or permission. Offered even-numbered calendar years.

889. Animal Pathology (1-3 cr, max 16) Prereq: 12 hrs biological sciences and permission.

999. Master's Thesis (BIOS 899) (6-10 cr)

Refer to the Graduate Bulletin for 900-level courses.

Plant Protection Sciences

Plant Protection Sciences Curriculum Committee

Chair: Professor J.E. Partridge, Department of Plant Pathology, 406 Plant Sciences

Professors: Powers (plant pathology), Yuen (plant pathology)

Associate Professors: D'Alelio (entomology), Heng-Moo (entomology), Lindquist (agronomy and horticulture)

and management of their associated pests and parasites. Students will also learn to understand the interactions of these beneficial and destructive organisms within various environments which result in reduced plant vigor, health or yield loss. These situations may also lead to plant products that are unsafe or toxic for human and animal consumption.

Students successfully completing the requirements for graduation in this major may find employment opportunities in such areas as government regulatory services, commercial inspection and home security agencies, consulting companies, agribusiness industries and plant breeding companies. Students considering graduate studies should find themselves well prepared for that pursuit as well.

The Plant Protection Sciences curriculum provides students with the course work background required for application for professional certification. The Plant Protection Sciences Curriculum Committee in the College of Agricultural Sciences and Natural Resources serves as the administrative body for this major and is responsible for advising students selecting this major.

Major Requirements

College Integrative Courses .................................................. 6

AGRI 103 Food, Agriculture & Natural Resources Systems ........................................... 3

AGRO/ENTO/PLPT 480 Integrative Plant Protection Sciences (Capstone) ............... 3

Natural Sciences .......................................................... 32

AGRO 315 Genetics .................................................. 4

BIOC 109 Botany .................................................. 1

AGRO 310 101 and 101L Intro to Biology and Lab ........................................... 4

Biology electives .................................................. 4

Select from: AGRO 325, BIOC 207, 220, 381, 471, or 478

CHEM 109 General Chemistry I ........................................... 4

CHEM 109 General Chemistry II ........................................... 4

Chemistry electives .................................................. 4

Select from: CHEM 251 and 253

PHY 141 Elementary General Physics ................. 5

or PHY 151 & 153 Elements of Physics & Lab (5 cr)

or PHY 211 & 221 General Physics & Lab (5 cr)

or MATH 109 & 109L Phsyical Principles in Agriculture & Lab (5 cr)

Mathematics and Statistics (beyond college algebra) .................................................. 5

Select from: STAB 102, 104, or 218

Communications .................................................. 6

Written Communication ........................................... 3

Select from: ENG L 150, 151, 152, 254, 351 GEN 120, 200, 300

Communication and Interpersonal Skills electives ........................................... 3

Select from: ENGL 101, 150, 151, 252, 253, 254, ALEC 102, 200, 200, 200, 300, COM M 109, 202, 212, or 311

Humanities and Social Sciences .................................................. 18

ECON 211 Principles of Microeconomics .......... 4

or ECON 212 Principles of Macroeconomics (4 cr)

or AECON 214 Intro to the Economics of Agriculture

or ENTO 303 Plant Protection Systems

or PLPT 369 Principles of Pest Management

Essential Studies .................................................. 15

Select one 3-credit course in each of the following five CASNR Essential Studies categories: (For the listing of ES/15s courses see "Essential Studies Program List" on page 377 of the Undergraduate Bulletin.)

Area A. Human Behavior, Culture & Social Organization

Area B. Natural Sciences

Area C. Human Behavior, Culture & Social Organization

Area E. Historical Studies

Area F. Humanities & Social Science

Area G. Arts

Area H. Race, Ethnicity & Gender

Plant Protection Sciences .................................................. 40

AGRI 100 Intro to Pesticides ........................................... 2

AGRO 132 Soil Resources ........................................... 4

AGRO 202 Principles of Weed Science ................. 3

ENTO 115 Insect Biology ........................................... 3

ENTO 116 Insect Identification ........................................... 3

PLPT 150 Current Topics in Plant Protection ........ 1

PLPT 260 Current Topics in Pest Management ........ 1

PLPT 369 & 369L Intro to Plant Pathology & Lab ........................................... 4

PLPT 390 Current Topics in Plant Protection I ........ 1

PLPT 390 Current Topics in Plant Pathology III ...... 3

Select from: AGRO 496, ENTO 496, HORT 496, PLPT 496

Plant Science/Production electives .................................................. 7

Select from: AGRO 131 and 132, 204, 240, 240, HORT 130, 325, 327

Plant Protection Sciences electives .................................................. 10

Selection of electives must be done with advisor to assure proper progression toward certification desired.

Entomology

Select from: ENTO 109, 303, 308, 400, 401, 406

Plant Pathology

Select from: PLPT 270, 370, BIOC 312 and 313

Weed Science

Select from: AGRO 412

Free Elective .................................................. 21

Total Major (62) and College (50) ........................................... 106

Total Electives .................................................. 22

Total Requirements for Graduation ........................................... 128

Integrated Pest Management Minor

A minor in integrated pest management will include a minimum of 18 hours of pest management-related courses including three core courses (AGRO 220, Principles of Weed Science, PLPT 369 Introduction to Plant Pathology, and either ENTO 308 Management of Field Crop Insects or ENTO 303 Horticultural Entomology). The remaining pest management courses must be approved by a member of the Crop Protection Curriculum Committee. At least 6 hours must be at the 300 or 400 level and up to 3 hours of pest management-related independent study course work may be included.

Statistics

Head: Professor Walter Stroup, 340 Hardin Hall

Professors: Eschridge, Kachman, M ar, M cCutchen, Parkhurst, Stroup

Associate Professors: Blankenship, Bilder, 2 hang

Assistant Professors: Hanford, Soulakova, Wang

Statistics is the science of data collection, classification, analysis and interpretation. It has evolved into a core discipline for well-rounded liberal arts education, and is of central importance to nearly all of the biological, physical and social sciences. T he Department of Statistics offers introductory courses to acquaint students from all disciplines with the essential elements of statistical thinking, STAT 218 can be taken to satisfy the ES requirement in mathematics and statistics.

The department also offers a minor in statistics. T he minor is a useful complement for many majors. In addition, the minor provides background beneficial for graduate study in statistics.
Career opportunities for statisticians with masters and doctoral degrees abound in industry, government and education. Employers include pharmaceutical, health and medical organizations, quality improvement in manufacturing and service, marketing and opinion research, credit and security risk analysis, agribusiness, various governmental agencies including Environmental Protection, Food and Drug Administration, Departments of Census, Energy, Agriculture, and Homeland Security, and emerging fields ranging from bioinformatics to statistical applications in sports.

Requirements for the Minor in Statistics

STAT 462 and 463 and at least 12 hours from the following: STAT 380, 412, 414, 450, 494, or 496. A limited number of courses may be substituted if approved by the Department of Statistics curriculum committee. Classes taken for a minor in statistics may not be taken Pass/No Pass.

Graduate Work. The following advanced degrees are offered: master of science and doctor of philosophy in statistics. For details, see the Graduate Bulletin.

Courses of Instruction (STAT)

[ESIS] 218. Introduction to Statistics (3 cr) Lec 3. Prereq: Removal of all entrance deficiencies in mathematics. Credit toward the degree may be earned in only one of CRIM 300 or ECON 215 or EDPS 459 or SOC 206 or STAT 380. The practical application of statistical thinking to contemporary issues; collection and organization of data; probability distributions, statistical inference, estimation and hypothesis testing.

380. Statistics and Applications (MATH 380) (3 cr) Lec 3. Prereq: MATH 107 or 107H. Probability calculus, random variables, their probability distributions and expected values; t- and chi-square sampling distributions, estimation, testing of hypotheses and regression analysis with applications.

412. Introduction to Experimental Design (3 cr) Prereq: STAT 380. Survey of elementary experimental designs and their analyses completely, randomized, randomized block, factorial, and split-plot designs.

414. Introduction to Survey Sampling (3 cr) Prereq: STAT/MATH 380 or IMSE 321 or permission. Sampling techniques simple random sampling, sampling proportions, estimation of sample size, stratified random sampling, ratio and regression estimates.

430/430. Sensory Evaluation (FDST 430/430) (3 cr) Lec 2, lab 3. Prereq: Introductory course in statistics. 0 to 2 pass/fail credit so listed is awarded. For course description, see FDST 430/430.

450. Introduction to Regression Analysis (3 cr) Prereq: STAT/MATH 380 or IMSE 321, and knowledge of matrix algebra. General linear models for estimation and testing problems, analysis and interpretation for various experimental designs.

462. Introduction to Mathematical Statistics I: Distribution Theory (3 cr) Prereq: MATH 208 or 107H. STAT 380 or equivalent is strongly recommended. Sample space, random variable, expectation, conditional probability and independence, moment generating function, special distributions, sampling distributions, order statistics, limiting distributions, and central limit theorem.

463. Introduction to Mathematical Statistics II: Statistical Inference (3 cr) Prereq: STAT 462. Interval estimation; point estimation, sufficiency, and completeness; Bayesian procedures; uniformly most powerful tests, sequential probability ratio test, likelihood ratio test, goodness of fit tests; elements of analysis of variance and nonparametric tests.

494. Topics in Statistics and Probability (1-5 cr, max 24) Prereq: Permission. Special topics in either statistics or the theory of probability.

496. Independent Study (1-5 cr, max 5) Prereq: Prior arrangement with a faculty member and submission of proposed study plan to department office.


804. Survey Sampling (3 cr) Prereq: STAT 880 or IMSE 321 or permission.

831. Spatial Statistics (3 cr) Prereq: MATH 821 and 822.

870. Multiple Regression Analysis (3 cr) Prereq: STAT 801, 802.

873. Applied Multivariate Statistical Analysis (3 cr) Prereq: STAT 801 or equivalent.

874. Nonparametric Statistics (3 cr) Prereq: STAT 801 or 880.

875. Categorical Data Analysis (3 cr) Prereq: STAT 801 and either STAT 802 or 870 recommended or with consent of instructor.

880. Introduction to Mathematical Statistics (3 cr) Prereq: MATH 208 or 107H and STAT 218 or equivalent or permission of instructor. STAT 880 is not open to M A or M S students in MATH or STAT.

881. Mathematical Statistics I: Distribution Theory (3 cr) Prereq: MATH 208 or 107H; STAT 380 or equivalent is strongly recommended.


884. Applied Stochastic Models (3 cr) Prereq: STAT/MATH 380 or MATH 380 or IMSE 321 or equivalent.

885. Statistics Seminar (1 cr) Prereq: Permission.

886. Topics in Statistics and Probability (1-5 cr, max 24) Prereq: Permission.


Refer to the Graduate Bulletin for 900-level courses.

Veterinary and Biomedical Sciences

Head: Professor David Hardin, Department of Veterinary and Biomedical Sciences, 120C Vet Science.

Professors: Barletta, Doster, Duhameel, Griffin, Jones, Kelling, Lou, Moxley, O Sorio, Pattnaik, Rogers, Rupp, Steffen

Associate Professors: M VeY, Smith

Assistant Professors: Somerville

Lecturers: Carison, L., H Ardin, N draak

Research Associate Professors: Brodersen, Zhou, Hveistein

Coordinator for Research: Duhameel

Courses in veterinary science are designed to broaden the knowledge of students in such areas as microbiology, virology, pathology, pharmacology, toxicology, immunology, molecular biology and biochemistry as they relate to diverse animal species. Members of the faculty advise students majoring in veterinary science and veterinary technology and assist students in modifying their curriculum to meet the entrance requirements for professional school as part of their pre-professional program.

Three options are available for the veterinary science major:

For graduate programs in veterinary science, see the Graduate Studies Bulletin.

Major Requirements

Veterinary Science

The following basic courses are required for the veterinary science major in the Department of Veterinary and Biomedical Sciences. In addition, students in the major must select and meet the requirements of one of the options, depending upon their particular needs and interests.

College Integrative Course ........................................... 3
Agriculture ............................................................. 3
Natural Science Courses .............................................. 50-57
Biological Sciences ..................................................... 20-25
Cellular Biology ........................................................... 8
BIO 102 Cell Structure & Function (4 cr) ......................... 4
BIO 103 Fundamentals of Microbiology (3 cr) ............... 3
BIO 134 Microbiology Lab (1 cr) ................................. 4
Organic Biology ......................................................... 3
BIO 103 Organiic Biology (4 cr) ................................. 4
Genetics ................................................................. 4
AGRO 315 Genetics or BIO 206
General Genetics (4 cr) .................................................. 4
Anatomy and Physiology .............................................. 4-9
A SC 240 Anatomy & Physiology of Domestic Animals (4 cr) or BIO 213 & 213L Human Anatomy & Physiology (4 cr) and BIO 214 Human Anatomy (5 cr)

Physical Sciences ....................................................... 26
CHEM 109 General Chemistry I .................................... 4
CHEM 110 General Chemistry II ................................... 4
CHEM 252 Organic Chemistry ..................................... 3
CHEM 253 Organic Chemistry Lab ................................ 1
CHEM 254 Organic Chemistry Lab ................................ 1
PHYS 141 Elementary General Physics I ..................... 5
PHYS 142 Elementary General Physics II .................... 5
Biological Chemistry .................................................... 4-6
BIO 321 & 321L Elements of Biochemistry & Lab ........... 4
or BIO 324 431 Biocommunications & Biochemistry Lab ........ 6

Mathematics and Analytical Skills ................................ 5
MATH 102 Trigonometry .............................................. 2
STAT 218 Intro to Statistics .......................................... 3
Communications ......................................................... 9
Written Communication ............................................. 6

NOTE: Two composition courses required, one 100-level course and one 200- or higher level course.

100-level course. Select one from: ................................. 3
ENGL 152, 154 Writing: An Inquiry (3 cr)
ENGL 151 Writing: A Rhetoric & Argument (3 cr)
JGEN 120 Basic Writing: An Inquiry (3 cr)
JGEN 200 Technical Communication (3 cr)

200-level course. Select one from: ................................. 3
ENGL 254 Rhetorical Practice & R Writing
Communications (3 cr)

Humanities and Social Sciences ................................... 18
Economics ............................................................... 3
Select one from:
AECN 141 Intro to Economics of Agriculture (3 cr)
ECON 211 Principles of Microeconomics (3 cr)
ECON 212 Principles of Microeconomics (3 cr)
Biomedical Sciences Option

The Biomedical Sciences Option is a four-year baccalaureate degree program, with a program of studies designed to fulfill the educational requirements for students with interests in allied career fields of veterinary and biomedical sciences, and animal well-being. The focus of the option is on animal health and wellness with a biomedical sciences orientation, and biotechnology. The hallmark of the option is educational concepts of fundamental biology and technology in science, with emphasis on the interrelationships existing between animal health and well-being and biomedical sciences. This option prepares students for application to a professional college or school of veterinary medicine, graduate school, or, positions in animal health product sales, technical positions in industrial, governmental agencies or academic settings, or a broad scope of positions in a variety of agricultural or science career opportunities.

Hours

Major Requirements .................................................. 95-97
Microbiology Option ................................................. 31-33

Microbiological electives ........................................... 7

Veterinary Medicine Option

The following courses are required for a Veterinary Medicine Option in the veterinary science major. Completion of the baccalaureate degree program requires successfully finishing two years of the professional curriculum in veterinary medicine at an accredited college or school of veterinary medicine. Undergraduate courses included in this degree program will fulfill the prerequisites for admission to most colleges of veterinary medicine.* However, completion of the general education courses at UNL does not guarantee acceptance to a professional curriculum.

Students should contact an adviser in the Department of Veterinary and Biomedical Sciences for specific professional school application information after arriving on campus.

Hours

Major Requirements .................................................. 98

Other Relevant Information

1. Further information can be obtained by writing the Department of Veterinary and Biomedical Sciences, University of Nebraska-Lincoln, College of Agriculture and Natural Resources, PO Box 830905, Lincoln, NE 68583-0905.

2. These course combinations will provide the intent and educational outcome of a Captivate experience.

3. Tte credits will be transferred from an accredited college or school of veterinary medicine. The student must have successfully completed two years of study toward a DVM/VMD degree.
Core Curriculum

The following courses are required for the veterinary technology major in the Department of Veterinary and Biomedical Sciences

1. College Integrative Courses

   AGR 11R RES 103 Food, Agricultural & Natural Resources
   General Education Requirements
   Animal Science
   Veterinary Science
   Other Science

   13 Hours

2. Humanities and Social Sciences

   Economics
   Humanities and Social Sciences
   Communications

   18 Hours

3. Total number of hours of all courses required in this area (humanities and social sciences) ........................................... 18

Veterinary Science Option

Major Requirements and Electives ........................... 78-80

   Biological Sciences .................................................. 12
   BIS 103 O rganic Biology ....................................... 4
   BIS 312 Fundamentals of M icrobiology ............................ 3
   BIS 314 M icrobiology Lab ...................................... 1
   Genetics AGRO 315 Genetics or BIS 105
   Veterinary Science Option............................................ 20
   General Genetics .................................................. 4
   Physical Sciences .................................................. 17
   CHEM 110 General Chemistry I .................................. 4
   CHEM 251 Organic Chemistry ...................................... 3
   CHEM 253 Organic Chemistry Lab .................................. 1
   CHEM 252 Organic Chemistry Lab .................................. 1
   PHYS 142 Elementary General Physics ..................... 5
   Veterinary Science ................................................ 1
   Veterinary Science Option............................................ 20
   Biochemistry & Lab ................................................ 4
   or BIO 431 & 432 Biomolecules & Metabolism & Lab ........ 6

Animal Science:

   ASCI 240 Anatomy & Physiology of Domestic Animals (4 cr)
   or VT 1404 Anatomy & Physiology of Domestic Animals, Lab & (4 cr) 

Business:

   Select two courses from any of the following five areas:
   Accounting
   AECN 201 Intro to Agricultural Accounting (3 cr)
   AECN 1103 Accounting I (3 cr)
   Computing
   AGR 1271 Intro to Computer Applications in Agriculture (3 cr)
   AIT 1053 Intro to Computers (3 cr)
   or AB 109 Hardware & Applications (2 cr) 

Finance

   AECN 1401 (3 cr)
   FINA 260 Personal Finance (3 cr)
   FINA 361 Finance (3 cr)
   ABM 2043 Finance (3 cr)

Management

   AECN 201 Farm & Ranch Management (4 cr)
   MGT 121 Intro to Entrepreneurial Management (3 cr)
   MGT 320 Principles of Management (3 cr)
   MGT 360 Managerial Behavior in Organizations (3 cr)
   MGT 361 Personnel/Human Resource Management (3 cr)
   MGT 2103 Management Concepts (3 cr)
   AB 407 Human Resource Management (3 cr)
   MGT 2103 Management Concepts (3 cr)
   AECN 350 Agribusiness & Food Products Marketing (3 cr)
   AECN 350 Agribusiness & Food Products Marketing (3 cr)
   MGT 361 Personnel/Human Resource Management (3 cr)

Minimum Requirements for Graduation

   128 Hours

Business Option

Major Requirements and Electives ........................... 76-77

   Biological Sciences .................................................. 12
   BIS 103 O rganic Biology ....................................... 4
   BIS 312 Fundamentals of M icrobiology ............................ 3
   BIS 314 M icrobiology Lab ...................................... 1
   Genetics AGRO 315 Genetics or BIS 105
   Animal Science ................................................... 4
   ASCI 240 Anatomy & Physiology of Domestic Animals (4 cr)
   or VT 1404 Anatomy & Physiology of Domestic Animals, Lab & (4 cr) 

Science Option

Major Requirements and Electives ........................... 76-81

   Biological Sciences .................................................. 12
   BIS 103 O rganic Biology ....................................... 4
   BIS 312 Fundamentals of M icrobiology ............................ 3
   BIS 314 M icrobiology Lab ...................................... 1

11. Equivalent of courses taken at Nebraska College of Technical Agriculture (NCTA). Required courses are listed as follows:
   12. Courses offered at NCTA, Curtis N.E. Business courses listed have not been granted equivalency status. Courses are only guaranteed substitutions. Applicants are advised to consult the NCTA catalog for specific course requirements.
   13. These credits, if completed at NCTA or other accredited Veterinary Technology Programs for students who complete the entire program, qualify academically to receive an associate in applied science degree, and pass the national certification examination, or the equivalent, administered at their respective institutions.
VETERINARY AND BIOMEDICAL SCIENCES

Students interested in veterinary medicine should consult with their Prevetinary Adviser in the Department of Veterinary and Biomedical Sciences to determine the courses they will need to complete their baccalaureate degree. Students should check with their advisors or the Department of Veterinary and Biomedical Sciences for more information.

Courses of Instruction (VBMS)

101. Introduction to Animal Health Careers (1 cr I) Lec 3. Prereq: M 115 or equivalent; or permission. Focus on the importance of the veterinary profession in society and the responsibilities of the veterinary profession. This course is designed to introduce students to the field of veterinary medicine and to provide an overview of the veterinary profession.

102. Introduction to Animal Health Careers (1 cr II) Lec 3. Prereq: M 115 or equivalent; or permission. Focus on the importance of the veterinary profession in society and the responsibilities of the veterinary profession. This course is designed to introduce students to the field of veterinary medicine and to provide an overview of the veterinary profession.

103. Principles and Prevention of Livestock Diseases (3 cr I) Prereq: ASCI 240, BIOS 300, or 312 recommended, or permission. Management techniques in the control of metabolic, infectious, and parasitic diseases of domestic animals and understanding of basic concepts of the important diseases of livestock.

104. Exploration of Production Medicine (2 cr III) Lec 3. Prereq: Permission of the instructor or an accredited college of veterinary medicine. Course to be taught at the Great Plains Veterinary Educational Center at Clay Center, N. Dakota. Exploration of production medicine and animal health management that weaves together the interpersonal relationships of animal behavior, animal nutrition, animal health, environment, assessment, worker safety, and pre-harvest food safety. Emphasis on the interactions between scientific disciplines and sustainable agriculture. Assessment of normal production potential and health of foals, animal populations (beef cattle, swine, and sheep) and indicators of abnormal health. Introduction to techniques used to evaluate animal well-being, to computerized information management, and to the veterinarian’s role in sustainable agriculture.

105. Independent Study in Veterinary Science (1-5 cr) Lec 12. Prereq: 12 hrs veterinary science or closely related areas and permission. Individual or group projects in research, literature review, or extension of course work under supervision and evaluation of a departmental faculty member.

109. Honors Thesis (3-6 cr, max 6 I, III, IV) Lec 12. Prereq: Permission of the University Honors Program and permission. A minimum of 6 hours of coursework in an area of interest in veterinary science, including a minimum of 3 hours of independent study and a paper or project in an area of interest in veterinary science. Individual or group projects in research, literature review, or extension of course work under supervision and evaluation of a departmental faculty member.

110. Introduction to Veterinary Epidemiology (2 cr) Lec, disc, and lab. Prereq: Permission. Introduction to veterinary epidemiology, including the identification and characterization of infectious diseases, and the role of epidemiology in the control and prevention of disease.

VETERINARY SCIENCE MINOR

The Veterinary Science minor is designed for students from across University boundaries with interests in veterinary technology, biotechnology, and biomedical sciences. Students completing a minor in veterinary science will be better prepared to apply to professional schools and will also be candidates for graduate research positions after they complete their baccalaureate degree.

The course of study leading to the minor should be developed in consultation with the Chair of the Prevetinary Adviser in the Department of Veterinary and Biomedical Sciences. A total of no more than 3 hours of credit in VBMS 496 can be applied to the minor. The veterinary science minor will consist of satisfactory completion of at least 12 credit hours of formal course work in veterinary and biomedical sciences selected from the following upper division courses:

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBMS 303 Principles &amp; Prevention of Livestock Diseases</td>
<td>3</td>
</tr>
<tr>
<td>VBMS 403 Integrated Principles &amp; Prevention of Livestock Diseases</td>
<td>4</td>
</tr>
<tr>
<td>VBMS 408 Functional Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>VBMS 410 General Pharmacology &amp; Toxicology</td>
<td>4</td>
</tr>
<tr>
<td>VBMS 416 Veterinary Entomology</td>
<td>2</td>
</tr>
<tr>
<td>VBMS 416L Veterinary Entomology Lab</td>
<td>1</td>
</tr>
<tr>
<td>VBMS 424 Basic Molecular Infectious Diseases</td>
<td>3</td>
</tr>
<tr>
<td>VBMS 441 Pathogenic Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>VBMS 488 Exploration of Production Medicine</td>
<td>2</td>
</tr>
<tr>
<td>VBMS 496 Independent Study in Veterinary Science</td>
<td>1-3</td>
</tr>
<tr>
<td>VBMS 499H Honors Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: Students should check with their advisors or the Department of Veterinary and Biomedical Sciences for more information.
Veterinary Medicine Preprofessional Program

Head: Professor David Hardin, Department of Veterinary and Biomedical Sciences, 12OC Vet Basic Sciences

Individuals wishing to enter the four-year professional curriculum leading to the degree, doctor of veterinary medicine (DVM), must first complete two or more years of preprofessional general education. Courses taken during preprofessional education must satisfy the entrance requirements in veterinary sciences and veterinary technology. Majors who meet the preprofessional requirements of colleges of veterinary medicine must apply to those colleges of veterinary medicine of their choice. At the University of Nebraska-Lincoln, it usually requires a minimum of three years to complete the preprofessional requirements. Certain options in the veterinary science and veterinary technology majors meet the preprofessional requirements of colleges of veterinary medicine. The student should discuss special variations and other colleges of interest with their academic adviser at the earliest possible date.

The Preprofessional Program IS NOT a degree-granting program. Completion of the preprofessional program alone in fulfilling the prerequisites for admission to a college of veterinary medicine does not result in the awarding of a degree from the University of Nebraska-Lincoln. Students who are to select an appropriate major field within which to work toward a college degree while concurrently working toward completion of preprofessional requirements are encouraged to consider courses of study with a degree-granting major in veterinary science (biomedical science or microbiology options), veterinary technology, animal science, food science and technology, biochemistry or field programs compatible with the preprofessional program that leads to a bachelor of science degree in agricultural sciences. Students can also complete preprofessional prerequisites with a major in wildlife or environmental studies, leading to a bachelor of science degree in natural resources. It is also possible to pursue these preprofessional requirements in degree-granting programs outside the College of Agriculture, Sciences and Natural Resources, such as the College of Arts and Sciences.

Students who designate an acceptable major field by the end of their freshman year and to work with an adviser in that field. It is especially important to consult your adviser to ensure that the communication-intensive course requirements, the capstone course requirements, and the international focus as well as the essential studies and integrative studies course requirements are met as mandated by the core curriculum for all majors in the College of Agricultural Sciences and Natural Resources. Additional advisor support relating to preprofessional requirements and admission priorities is provided by an adviser within the Department of Veterinary and Biomedical Sciences, University of Nebraska-Lincoln.

It is recommended that preprofessional students take each course on a Pass/N Pass basis (unless there is an option for a given course, e.g., VBM 101) because courses taken Pass/N Pass may not be accepted for preprofessional prerequisites. Letter grades are required to evaluate credentials of applicants for veterinary college admission.

Cooperative Program in Veterinary Medicine

The University of Nebraska-Lincoln College of Agriculture and Natural Resources is home to the Nebraskan component of the Cooperative Program in Veterinary Medicine with Iowa State University (ISU). Students in this program begin their professional education on the UNL campus and will earn the four-year doctor of veterinary medicine degree after continued study at ISU College of Veterinary Medicine. The arrangement maintains tuition at the rate of ISU's in-state professional tuition rate all four years.

This innovative program, whose inaugural class of 25 Nebraska residents entered the fall semester of 2007, is the first of its kind in the United States. Program planning and development was undertaken jointly by the University of Nebraska-Lincoln, as well as Iowa State University, and has been reviewed and approved by the American Veterinary Medical Association's Council on Education. This approval ensures that successful students in this program will meet requirements to take the North American Veterinary Licensure Exam (NAVLE) and subsequently attain licensure to practice veterinary medicine.

Every professional veterinary program must provide a core curriculum, and the unique opportunities provided by this ISU/UNL program allow students to work toward a college degree while concurrently working toward completion of preprofessional requirements. Students are encouraged to consider courses of study with a degree-granting major in veterinary science (biomedical science or microbiology options), veterinary technology, animal science, food science and technology, biochemistry or other fields compatible with the preprofessional program that leads to a bachelor of science degree in agricultural sciences. Students can also complete preprofessional prerequisites with a major in wildlife or environmental studies, leading to a bachelor of science degree in natural resources. It is also possible to pursue these preprofessional requirements in degree-granting programs outside the College of Agriculture, Sciences and Natural Resources, such as the College of Arts and Sciences.

The specific requirements for each major are listed under each major. These majors are: fish and wildlife, environmental restoration science, grassland ecology, environmental studies, environmental science, natural resource and environmental economics and pre-forestry.

Students planning to transfer from other colleges who are undecided about their major fields of interest should use these requirements as a guide and/or refer to the "Pre-Natural Resources Program" on page 99. Early selection of a major is strongly encouraged in order to enhance the timely completion of the student's program.

Natural Resources........................................21-23
AGRI/NRES 103 Food, Agricultural & Natural Resource Systems..........................3
Senior Capstone Course.................................3
Geographic Information Science Course (NRES 312, 412, or 418)................4-5
NRES 220 Principles of Ecology.......................3
NRES 323 Natural Resources Policy...................3
Earth Science Course (GEO 100, 101, 106; MET 200; NRES 108 and 208; SOIL 153; WATS 281)..............4-5
Natural Resources & Environmental Restoration (NRE 265, 465).................3
Mathematics and Statistics............................5
Smat from: MATH 102, 104, 106 and 218
NOTE: Proficiency at the college algebra level must be demonstrated either by a placement exam or through coursework. If MATH 103 is taken, only 2 cr hrs can be counted towards this requirement.

Natural Sciences........................................16-17
BIO 101 & 101L General Biology & Lab........4-5
Biological Sciences (other than BIO 220)........4
CHEM 105 Chemistry in Context I or 109
General Chemistry I..................................4
PHYS 141 Elementary General Physics (5 cr).....4-5
PHYS 151 Elements of Physics (4 cr) or
PHYS 211 General Physics (4 cr) or
M SY M 109 Physical Principles in Agriculture (4 cr)
Communications........................................9
Written Communication................................3
Oral Communication..................................3
Communication and Interpersonal Skills electives. 3

Humanities and Social Sciences......................18
ECON 211 or 212 or AECN 143.................3
Economics Studies....................................3
NOTE: One 3-credit course with an international focus to be selected as described under College Requirements.

Required Credit Hours in M inum Electives....69
Major Requirements and Electives........59
Total Credit Hours for Graduation........128

The School of Natural Resources (SNR) is comprised of faculty of natural resources from within the Institute of Agriculture and Natural Resources (IANR), the College of Arts and Sciences, and other University colleges who focus on many critical natural resources and environmental issues. SNR is the administrative home for the fish and wildlife, environmental restoration science, grassland ecology, environmental studies, environmental science, natural resource and environmental economics, and pre-forestry programs. These natural resource majors emphasize an interdisciplinary approach, with opportunities provided by this ISU/UNL Cooperative Program in Veterinary Medicine, and the limited enrollment in the major of their choice.

Courses of instruction in these majors provide students with the tools to describe the characteristics of natural resources, which include the atmosphere, hydrosphere, geosphere and biosphere. In addition, we expect graduates...
of these majors to be able to understand the interactions among natural resource systems and to evaluate the impacts of humans as stewards and managers of these systems. Along with this technical expertise, each student will develop problem solving and communications skills which will enable them to take their place as a professional in a diversity of natural resources careers.

For more information on the School of Natural Resources and the natural resources degree program contact 402/472-7471 or visit http://snr.unl.edu.

Courses of Instruction (NRES)

101. Natural Resources Orientation (1 cr) Lec. 1. NRES 101 requires field exercises in terrestrial and aquatic ecosystems. Pass/No Pass only.

Introduction to natural resource disciplines, Fisheries, wildlife, forestry, range, agriculture, and other fields.

(E&S)(S) 103. Introduction to Agriculture, and Natural Resource Systems (AGRI) 103, LIRK 110A (3 cr) II Lec 2, disc 1.

For course description, see AGRI 103.

108. Earth’s Natural Resource Systems Laboratory (4 cr) Lab. 1. Introduction to Earth’s natural resource systems. Exploring the interactions between the geosphere (solid earth) and the atmosphere, the hydrosphere, and the biosphere. The atmosphere is composed of many different spatial and temporal scales, and role of humans as part of the system.

(E) 170. Introduction to Great Plains Studies (ANTH, GEOG, GPS 50 SC 170) (3 cr) Required for Great Plains Studies majors and minors.

For course description, see GPS 50.


(E&S)(S) 211. Introduction to Conservation Biology (3 cr) Lec 2, intersections. Introduction to problems faced in fulfilling the ever increasing human needs while maintaining ecosystem and biodiversity. The interactions of biological fields such as: wildlife biology, ecology, evolution, and genetics with non-biological fields in human needs while maintaining ecosystem and biodiversity. The field-oriented lab emphasizes site identification, forest ecology, forest management and woodland.


12. Introduction to Geospatial Information Sciences (GEOG 312) (3 cr) Lec 2, Lab 2. Junior standing basic computer skills (spreadsheets, word processors and data file management). Introduction to the theory and applications of geospatial information technology: remote sensing, GIS data collection, GIS database processing, data analysis and evaluation. Extensive field trips are required.

Aerial Photography in Land and Water Use (GEOG 313) (3 cr) Lec, rec, lab 2. For course description, see GEOG 313.

323. Natural Resources Policy (3 cr) Lec 3. Prereq: Junior standing. Conflict and common ground perpetuated by increasing demands on our natural resources. Policy development and conflict resolution.

312. Wildlife Damage Management (3 cr II Lec 3, lab 3, Prereq: NRES 311. Fundamentals of prevention and control of damage caused by vertebrate pests, primarily birds and mammals. Principles of ecological, and behavioral basis for controlling population levels or individuals of pest species.

350. Wildlife Management Techniques (4 cr) I Lec 3. Prereq: NRES 311. Field exercises in an even number of years at Cedar Point Biological Station.

Survey of quantitative techniques used in wildlife management. Scientific method of wildlife science: surveys, population inventories, and simulations. Introduction to the use of computer-based GIS (geographic information systems) for natural resource decision-making.

380. Vertebrate Zoology (BIOS 386) (4 cr) Lec 3, lab 2. Prereq: BIOS 101, 101L, 112; or BIOS 103. BIOS 386 requires field trips and includes trips outside of normal class time.

For course description, see BIOS 386.

388. Employment Seminar (AGRI 388) (1 cr I, II) Pass/No Pass only. Sophomore or junior standing in the College of Agriculture and Natural Resources. For course description, see AGRI 388.

399. Independent Research (1-5 cr, max 6) Ind. Prereq: 8 hrs NRES 399 is to be supervised and evaluated by a NRES faculty member. Research, literature review, or extension of course work.

402. Aquatic Insects (BIOS 485/885; ENTO 402/802) (2 cr) Lec 2. Prereq: 12 hrs biological sciences or experience. For course description, see ENTO 402/802.

402L. Aquaculture Insects (BIOS 485L/885L; ENTO 402L/802L) (1 cr) Lec 1. Prereq: Introduction to Aquatic Insects. For course description, see ENTO 402L/802L.

440. Forestry, Fisheries and Wildlife Seminar (1 cr per sem, max 2 cr) Lec 4. Prereq: Junior standing or above in natural resources or permission. Seminar involving technical aspects of forestry, fisheries, and wildlife management.

460. Plant Ecophysiology: The Science and Practice (AGRO, HORT, METR 460/860) (4 cr) Lec 4. Prereq: Junior standing. 4 hrs ecology and 4 hrs botany or plant physiology. 200-400 level plant physiology and one course in physical sciences (hono and 400-500 level plant physiology). "Introduction to the ecological niche, limiting factors and adaptation. An overview of the use of seed germination and ecology, soil and water relations, plant vigour, plant nutrition, plant energy budgets, photosynthesis, carbon balance and plant- animal interaction. Emphasis on various field equipment used in ecological studies."

480. Microclimate: The Biological Environment (AGRO, HORT, METR 480/880) (3 cr) Lec 3. Prereq: Junior standing. MATH 160 or equivalent, 5 hrs physics major in any of the physical or biological sciences or engineering or permission.

Physical factors that create the biological environment. Radiation and energy balance of earth surfaces, terrestrial and marine, temperature, humidity, and wind regimes near the surface. Control of the physical environment through irrigation, windbreaks, frost protection, manipulation of light, and radiation. Applications to air pollution research. Instruments for measuring environmental conditions and remote sensing of the environment.

18. Herbaceous Landscape Plants (HORT 214) (3 cr) Lec 2, rec 1. Extensive field trips are required.

For course description, see HORT 214.

For course description, see HORT 212.

For course description, see HORT 213.

184. Agroforestry Systems in Sustainable Agriculture (AGRO, GEOG, HORT, METR 417/817) (3 cr) Semesters college chemistry or permission. An overview of the formation and production of timber and specialty crops. Comparison of temperate agroforestry systems to those of tropical areas.

418. Introduction to Remote Sensing (AGRO 418/818) (3 cr) Lec 2. Prereq: 12 hrs biological sciences or experience. Resource sciences including GEOG 100 and 101, 110, 113 and 114, or CHEM 111 or permission.

For course description, see GEOG 418/818.

418L. Chemistry of Natural Waters (GEOG 419/819) (3 cr) Lec 3. Prereq: Two semesters of college chemistry or CHEM 100 and 110, 113 and 114, or CHEM 111 or permission.

For course description, see GEOG 419/819.

419. Chemistry of Natural Waters Laboratory (GEOG, HORT, METR 419/819) (3 cr) Lec 3. Prereq: Two semesters of college chemistry or permission.

For course description, see GEOG 419/819.

419L. Chemistry of Natural Waters Laboratory (GEOG, HORT, METR 419L/819L) (1 cr) Lec 2. Prereq: Two semesters of college chemistry or permission.

For course description, see GEOG 419L/819L.

420. Applications of Remote Sensing in Agriculture and Natural Resources (AGRO, GEOG, HORT, 439 (3 cr) Lec 3, lab 2, Prereq: GEOG/NRES 418/818 or permission.

For course description, see GEOG 439/839.
424/425. Field Techniques in Remote Sensing (AGRO 424/425) (5 cr) Lec 2, lab 3, Prereq: NRES 418 or permission. Field techniques as they relate to remote-sensing campaigns. Research methods, systematic approaches to data collection, field spectral and spatial information linked with spectroscopic data sets as well as aircraft or satellite missions and subsequent analyses of acquired data.

[1] 423/424. Integrated Natural Resource Management (3 cr I, II) Lec. Prereq: Senior standing, natural resources or related major; or permission. Integrated and multiple-use management. Economic, political, social, and physical impacts on natural resource management priorities.


435/436. Apogeoecology (AGRO, HORT 435/436) (3 or 3 cr) Lec 3, Prereq: For AGRO/HORT/NRES 435: Senior standing or permission. For AGRO/HORT/NRES 435: 12 hrs biological or agricultural sciences or permission. Team projects for developing communication skills and leadership skills. For course description, see AGRO 435/435.

432/442. Environmental Geophysics I (GEOL 442/442) (4 or 4 cr) Lec 2; Prereq: PHYS 211; GEOL 101 or 106; or equivalent or permission. For course description, see GEOL 442/442.

433. Environmental Geophysics II (GEOL 443/443) (3 or 3 cr) Lec 3, Prereq: MATH 107; PHYS 211; GEOL 101 or 106; or equivalent or permission. For course description, see GEOL 443/443.

448/494. Advanced Topics in Wildlife Damage Management (2 or 2 cr) Lec 2. Prereq: NRES 348. Participation in a three-day professional conference is strongly encouraged. Economic, global, and public policy issues relative to situations in which wildlife damage personal property or natural resources, the management and control of wildlife damage, and emerging policy issues. Demonstration and discussion of technological advances in monitoring, control, damage resistance, toxicity, behavior modification, and biological management.

450. Biology of Wildlife Populations (AGRO 450/450) (3 or 3 cr) Lec 2; Prereq: AGRO 220 or permission. Principles of population dynamics. Management strategies for consumptive and non consumptive fish and wildlife species presented utilizing principles developed.


452/452. Climate and Society (AGRO, GEOG, METR 452/452) (3 cr) Lec 3, Prereq: METR 200 or 351 or equivalent, or permission. O'ferred spring semester of even-numbered calendar year. Impact of climate and extreme climatic events on society and societal responses to those events. Global in scope and interdisciplinary.

454/454. Ecological Interactions (BIOS 454/454) (4 or 4 cr) Lec 3, lab 4, Prereq: BIOS 220 or equivalent. May also be offered at C. Star Point Biological Station and/or Biological Station. For course description, see BIOS 454/454.

455/455. Soil Chemistry and Mineralogy (AGRO 455/455; SOIL 455) (3 or 3 cr) Lec 3, Prereq: AGRO/HORT/SOIL 153 or GEO 101; CHEM 109 and 110; CHEM 221 or 251 or equivalent. For course description, see AGRO 455/455.

456/456. Mathematical Models in Biology (AGRO 456/456) (3 or 3 cr) Lec 3, Prereq: Junior or senior standing in biological sciences, MATH 106 or 107 or permission. For course description, see AGRO 456/456.

457/457. Soil Physical Determinations (SOIL 457, AGRO 457/457) (3-4 cr) Lec 2, 3-4, Prereq: AGRO 153, CHEM 116 or 221 or equivalent or permission. Permission required to register for 2 cr. Students registered for 3 cr will design, carry out and report on an independent study project conducted during the semester. O'ferred even-numbered calendar years. For course description, see AGRO 457/457.

458/458. Soil Physical Determinations (SOIL 458. AGRO 458/458) (2 or 2 cr) Lec 3, lab 3, 3 hrs arr, Prereq: SOIL AGRO/EUDI/WATS 363, PHYS 141L or equivalent;
Environmental Studies

Director and Chief Undergraduate Advisor: Associate Professor Bob Kuzelka, 504 Hardin Hall

Academic Advisor: Sara Winn, 435 Nbraska Union and 149B Hardin Hall

Coordinating Committee: C (chemistry), Gardner (biology), Gosselin (natural resources), Kuzelka (natural resources), Law (geoscience), Tyre (natural resources), Wandsnider (anthropology), Willsman (sociology), Winn (environmental studies)

Liaisons: Chair—Schmidt; Associate Dean (A&S); Stev Waller, Dean (CASNR)

Website: www.unl.edu/esp

The environmental study major is interdisciplinary and offered in the College of Agricultural Sciences and Natural Resources (CASNR) and the College of Arts and Sciences (A&S). The core curriculum for the major encompasses the natural and social sciences and the ethics of responsibility as well as a senior thesis. The curriculum includes nine areas of emphasis, which are offered through CASNR: applied climate science, environmental studies, economics, geography, geology, meteorology, and sociology.

The CASNR areas of emphasis are administered through the School of Natural Resources and coordinated by the CASNR Natural Resources Undergraduate Coordinating Committee. Within CASNR the areas of emphasis are referred to as options.

NOTES: Students majoring in Environmental Studies in CASNR must take all courses under M ajor Requirements and one of two options to meet the 128 credit hour college requirement for graduation.

Major Requirements

<table>
<thead>
<tr>
<th>Environmental Studies Core</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 101 Natural Resources Orientation</td>
<td>1</td>
</tr>
<tr>
<td>NRES 103 Food, Agricultural &amp; Natural Resource Systems</td>
<td>3</td>
</tr>
<tr>
<td>NRES 323 Natural Resources Policy</td>
<td>3</td>
</tr>
<tr>
<td>ENVR 289 Environmental Studies Sophomore Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 489 Environmental Studies Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ENVR 489 Environmental Studies Senior Thesis I (1 cr) and ENVR 499B Environmental Studies Senior Thesis II (2 cr) or ENVR 499H (3 cr) for UNL Honors Students</td>
<td>3</td>
</tr>
<tr>
<td>M ETR 200 Weather &amp; Climate</td>
<td>4</td>
</tr>
<tr>
<td>NRES 281 Intro to Water Science</td>
<td>3</td>
</tr>
<tr>
<td>SOIL 153 Soil Resources</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 473 Ecological Anthropology or ANTH 474 Applied &amp; Developmental Anthropology or ANTH 477 Hunters &amp; Gatherers</td>
<td>3</td>
</tr>
<tr>
<td>SOC 446 Environmental Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Geographic Information Science</td>
<td>3-4</td>
</tr>
<tr>
<td>NRES 312 Intro to Geospatial Information Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or NRES 412 Intro to Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>or NRES 418 Intro to Remote Sensing</td>
<td>4</td>
</tr>
</tbody>
</table>

N RES 465 Resource & Environmental Economics | 3 |

Natural Resource & Environmental Economics | 3 |

N RES 465 Resource & Environmental Economics II | 3 |

Natural Sciences | 8 |

BIOS 101 & 10L General Biology & Lab and BIOS 109 General Botany (4 cr) or BIOS 112 & 11L Intro to Zoology & Lab (4 cr) | 4 |

Communications | 9 |

Written Communications | 3 |

Select from: ENGL 150, 151, 254; JGEN 120, 200, 300; Oral Communications | 3 |

Communication and Interpersonal Skills | 3 |

Select from: ENGL 150, 151, 254, 252, 254; ALEC 102; JGEN 120, 200, 300, 300; COMM 109, 212, 213, 312 |

Economics | 3 |

ECON 141 or ECON 211 or 212 | 3 |

Essential Studies | 12 |

Select one 3-credit course from each of these four Essential Studies Areas: Lists begin on page 377 |

Area A: Historical Studies |
Area B: Humanities |
Area C: Arts |
Area D: Race, Ethnicity & Gender |

NOTES: One 3-credit course with an international focus is to be selected from the lists under “International and Natural Resource Studies.” |

Options

Applied Climate Science Option

The applied climate science option is for the student with interests in understanding the climate system and its components and its interactions with, and impacts on, the environment and human societies. Students will be trained to work in a broad range of areas in natural resources management where an understanding of climate/environmental interface is essential. Opportunities for students completing this option include positions with environmental consulting firms, planning agencies and non-governmental and all levels of governmental organizations. They will also have fulfilled requirements for pre-professional degrees and graduate studies.

Applied Climate Science Core | Hours |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>M ETR 255 Intro to Atmospheric Sciences</td>
<td>3</td>
</tr>
<tr>
<td>M ETR 351 Basic &amp; Applied Climatology</td>
<td>3</td>
</tr>
<tr>
<td>M ETR 454 Regional Climatology</td>
<td>3</td>
</tr>
<tr>
<td>NRES 208 Applied Climate Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NRES 200 &amp; 222 Principles of Ecology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>NRES 408 M icroclimate: The Biological Environment</td>
<td>3</td>
</tr>
<tr>
<td>NRES 452 Climate &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>NRES 453 Applied Climate Science Core Electives</td>
<td>8</td>
</tr>
<tr>
<td>Select 8 credits from the following</td>
<td>8</td>
</tr>
<tr>
<td>M ETR 453 Physical Climatology</td>
<td>3</td>
</tr>
<tr>
<td>NRES 467 Global Climate Change</td>
<td>3</td>
</tr>
<tr>
<td>NRES 469 Bio-Atmospheric Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>NRES 496 Independent Study (1-5 cr)</td>
<td>1</td>
</tr>
<tr>
<td>M ETR 498 Climate Change: Past, Present &amp; Future</td>
<td>3</td>
</tr>
</tbody>
</table>

Human Dimensions | 3 |

NRES 415 Water Resources Seminar | 1 |

NRES 423 Integrated Resources Management | 3 |

AECN 456 Environmental Law | 3 |

AECN 457 Water Law | 3 |

AECN 474 Environmental Studies Core I | 3 |

Natural Resources Option

The natural resources option is for the student interested in an interdisciplinary education focusing on the use, management and conservation of renewable natural resources. The curriculum is based on the integration of ecological principles with the use and management of natural resources. The option will prepare students for careers in private and public organizations that are responsible for the use and management of natural resources and protection of the environment. They will be prepared for positions in fields such as inventory, planning, sustainable development, policy analysis and management. They also may fulfill requirements for pre-professional degrees and graduate studies.

Natural Resources Core | Hours |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 101 Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>NRES 220 Principles of Ecology</td>
<td>3</td>
</tr>
</tbody>
</table>

Plant Resources

Select one from the following | 3-4 |

BIOS 453 Diversity of Plants | 4 |

BIOS 455 Great Plains Flora | 3 |

BIOS 471 Plant Taxonomy | 4 |

NRES 212 Landscape Plants | 3 |

NRES 310 Intro to Forest Management | 4 |

NRES 417 Agroforestry Systems in Sustainable Agriculture | 3 |

NRES 424 Forest Ecology | 4 |

NRES 469 Wetlands (4 cr) | 3 |

RNG 224 North American Rangeland Plants | 1 |

RNG 440 Great Plains Ecosystems | 3 |

RNG 442 Wetland Plants | 3 |

Animal Resources

Select one from the following | 3-4 |

BIOS 386 Vertebrate Zoology | 4 |

BIOS 475 & 476T Histology & Lab (4 cr) | 4 |

BIOS 476 Mammalogy | 4 |

NRES 211 Intro to Conservation Biology | 3 |

NRES 311 Wildlife Ecology & Management | 3 |

NRES 350 Wildlife Management Techniques | 4 |

NRES 402 Aquatic Insects (2 cr) | 3 |

NRES 450 Biology of Wildlife Populations | 4 |

NRES 459 Limnology | 4 |
Electives ..........................................................8-16

Experience in an off-campus setting related to an environmental studies seminar (ENVR 489).

Under the guidance of a faculty adviser and the (including a written thesis and oral defense)

Courses of Instruction (ENVR)

• Total 18 hours with 6 hours at 300 level or

Mathematics......................................................... 2

MATH 102 Trigonometry (2 cr) or MATH 103 College Algebra & Trigonometry (5 cr)
or MATH 104 Calculus for Managerial & Social Sciences (3 cr) or MATH 105 Analytical Geometry & Calculus (5 cr)
Or
Cred hours earned over 2 in MATH courses will count towards electives for this option.

Natural Sciences

CH EM 105 & 106 Chemistry in Context I & II (8 cr) or CH EM 109 & 110 General Chemistry I & II (8 cr) and PHYS 141 Elementary General Physics (5 cr)
Or PHYS 211 General Physics (4 cr) or MY SM 109 Physical Principles in Agriculture (4 cr)

Electives................................................................. 8-16

Environmental Studies Minor

• Total 18 hours with 6 hours at 300 level or above to include: Hours

GEOG 181 Qality of the Environment.............3
or AGRI/ NR ES 103 Food, Agricultural & Natural Resource Systems (3 cr)
EN VR 489 Environmental Studies Seminar...........3
A minimum of 14 hrs from the following:........14
ANTH 473 Ecological Anthropology (3 cr)
BIOS 220 Principles of Ecology (3 cr)
CHEM 105 & 106 Chemistry in Context I & II (8 cr) or CHEM 109 & 110 General Chemistry I & II (8 cr) and PHYS 141 Elementary General Physics (5 cr)
CHEM 109 & 106 Chemistry I in the Great Plains (3 cr) or BIO S 200 Principles of Ecology (3 cr)
or BIO S 207 Ecology & Evolution* (4 cr)
CHEM 105 Chemistry in Context I or CHEM 109 General Chemistry or CHEM 113 Fundamental Chemistry (4 cr)
EN VR 499A and 499B Senior Thesis (3 cr)
GEO L 106 Environmental Geology (3 cr)
METR 200 Weather & Climate (4 cr)
NR ES 323 Natural Resources Policy (3 cr)
SOC 446 Environmental Sociology (3 cr)
or SOC 444 Social Demography

*For majors in biological sciences, BIO S 207 (4 cr) only is accepted.

Courses of Instruction (ENVR)

Prior to graduation, majors must complete a “capstone” senior thesis (ENVR 499A and 499B) (including a written thesis and oral defense) under the guidance of a faculty adviser and the environmental studies seminar (ENVR 489).

The environmental studies program has an option of elective internship course (ENVR 497) which provides the opportunity to gain work experience in an off-campus setting related to a student’s academic and career objectives. Advanced students are encouraged to explore this possibility with the adviser in their area of emphasis and with the Chair Undergraduate Adviser.

289. Environmental Studies Sophomore Orientation (12) Lec. Prereq: Sophomore standing or transfer student with less than 72 credit hours. Pass/NP only. Open to declaring major in environmental studies. Prereq: EN VR 289.

289. Environmental Studies Sophomore Seminar (1 cr, 12) Lec. Prereq: Sophomore standing or transfer student with less than 72 credit hours. Pass/NP only. Open to declaring major in environmental studies. Prereq: EN VR 289. Series of talks on topics related to an environmental theme selected for its appropriate and timely nature by the Environmental Studies Committee. Topics vary.

497. Internship in Environmental Studies (1-4, max 12) Prereq: Junior standing. Environmental studies major; prior arrangement with and permission of program director and emphasis adviser.

Experience in off-campus settings that is directly relevant to environmental studies.

498. Independent Study (1-4, max 12) Prereq: Environmental studies major; prior arrangement with and permission of program director and emphasis adviser.

499A. Environmental Studies Senior Thesis I (1 cr) Prereq: Junior or senior standing. Environmental major or minor; prior arrangement with program director and emphasis adviser. Seminar course consisting of ENVR 499A and 499B. The thesis is to be written under the supervision of the emphasis adviser and a faculty member designated by the emphasis adviser. The thesis will be evaluated and offered with an additional member with expertise in the topic.

499B. Environmental Studies Senior Thesis II (1-3 cr) Prereq: EN VR 499A. Second course of a two-semester sequence of courses consisting of EN VR 499A and 499B. Pass/NP only. Prereq: EN VR 499A.

499H. Honors Environmental Studies Senior Thesis I & II (3 cr) Lec, rct, ind. Prereq: Junior standing; good standing in the University Honors Program; Environmental major or minor; prior arrangement with program director, emphasis adviser, and honors program adviser. For course description, see EN VR 499A and 499B.

Fisheries and Wildlife

Coordinator: Associate Professor Larkin A. Powell, School of Natural Resources, 419 Hardin Hall

Fisheries and Wildlife Curriculum Committee: Awada, Brandle, Freeman, Holz, Hyytto, Pegg, Powell, Tyre, Wedin

Fisheries and wildlife professionals are responsible for the conservation, protection, regulation, and management of our nation’s fish and wildlife resources. Their management strategies must provide for both consumptive (hunting, fishing, and non-consumptive uses (bird watching, non-game species enhancement, threatened and endangered species protection, and others).

Students who successfully fulfill the requirements in the fisheries and wildlife major are prepared to enter graduate programs as well as competitively enter the job market. The curriculum reflects the civil service requirements of the federal government for wildlife and fisheries biologists and incorporates most course requirements for certification in professional societies. With judicious use of electives, graduates can also meet requirements for positions as zoologists and refuge managers. Further, the breadth of the curriculum graduates to address complex environmental issues and to interact professionally with a multitude of natural resources disciplines in order to develop solutions to problems. Typical careers for graduates of this major include fisheries biologist or wildlife biologist with private consulting firms and zoos, as well as with governmental resource management agencies at the local, state or federal level.

Fisheries and wildlife education and management is a very broad field. Students should consult their adviser as they select one of the following options:

• Aquatic Ecology
• Conservation Biology
• Fisheries Ecology and Management
• Geospatial Information Sciences
• Habitat Management
• Law Enforcement
• Wildlife Damage Management
• Wildlife Disease
• Wildlife Ecology and Management
• Zoology Animal Care and Rehabilitation
• General Option

Major Requirements

The following basic courses are required for majors in fisheries and wildlife. In addition, students must select and meet the requirements of one of the options, depending on their individual interests and career objectives.

Natural Resources Core ..............................................22-24
N R ES 103 Food, Agricultural & Natural Resource Systems............................. 3
N R ES 108 Earth’s Natural Resource Systems or SOIL 153 Soil Resources or GEO L 106 Physical Geology or GEO L 106 Environmental Geology (3 cr) or MAT H 106 Calculus for Managerial & Social Sciences (3 cr) or MAT H 104 Calculus for Managerial & Social Sciences (3 cr)

Geospatial Information Science Course.......................................................3
Select one course from:
N R ES 312 Intro to Geospatial Information Sciences (3 cr)
N R ES 412 Intro to Geographic Information (4 cr)
N R ES 418 Intro to Remote Sensing (4 cr)
N R ES 323 Natural Resources Policy (3 cr)
N R ES 423 Integrated Resources Systems (3 cr)

Mathematics ..........................................................3-5
MAT H 104 Calculus for Managerial & Social Sciences (3 cr) or MAT H 106 Analytical Geometry & Calculus I (3 cr)

Statistics ........................................................................3
STAT 218 Intro to Statistics ...............................................3

Communications ........................................................................3
W ritten communication.......................................................9
Select from: EN GL 150, 151, 254; J GEN 200, 300; J OR 444

Oral communication........................................................................3
Select from: COMM 109, 209, 311; J OR 444
Communication/Interpersonal Skills Elective...................................................3
Select from: EN GL 150, 151, 254; J GEN 120, 200, 300; COMM 109, 209, 311; J OR 444

Humanities and Social Sciences ..........................................................18
ECON 211 or 212 or AECN 141 .......................................................3

Essential Studies ...............................................................15
Select one 3-credit course in each of the following five C A SN E Essential Studies categories: (For the list of courses see “Essential Studies Program List” on page 359.)
Area C, Human Behavior, Culture & Social Organization
Area E, Historical Studies
Area F, Humanities
Area G, Arts
Area H, Race, Ethnicity & Gender
NOTE: One 3-credit course with an international focus is to be selected from the lists under "International Focus" on page 64, which also counts towards CASNR ES/IS requirements.

**Natural Sciences**

<table>
<thead>
<tr>
<th>Biological Science Courses</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>BISO 101 &amp; 101L General Biology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>BISO 112 &amp; 112L Intro to Zoology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>Physical Science Courses</td>
<td>12</td>
</tr>
<tr>
<td>MSYM 109 Physical Principles in Agriculture or PHYS 151 Elements of Physics</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 105 &amp; 106 Chemistry in Context I &amp; II (8 cr) or CHEM 109 &amp; 110 General Chemistry (8 cr)</td>
<td>8</td>
</tr>
</tbody>
</table>

**Aquatic Ecology Option Electives**

<table>
<thead>
<tr>
<th>Select from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 457 Water Law (3 cr)</td>
</tr>
<tr>
<td>AECN 465 Resource &amp; Environmental Law (3 cr)</td>
</tr>
<tr>
<td>BIOS 381 Invertebrate Zoology (4 cr)</td>
</tr>
<tr>
<td>BIOS 454 Ecological Interactions (4 cr)</td>
</tr>
<tr>
<td>BIOS 457 Ecosystem Ecology (4 cr)</td>
</tr>
<tr>
<td>BIOS 462 Animal Behavior (3 cr)</td>
</tr>
<tr>
<td>BIOS 472 Evolution (4 cr)</td>
</tr>
<tr>
<td>BIOS 473 Freshwater Algeae (4 cr)</td>
</tr>
<tr>
<td>BIOS 478 Natural History of the Invertebrates (4 cr)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plant Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one course from the following:</td>
</tr>
<tr>
<td>AGRO 422 Wildland Plants (3 cr)</td>
</tr>
<tr>
<td>BIOS 455 Great Plains Flora (4 cr)</td>
</tr>
<tr>
<td>BIOS 471 Plant Taxonomy (4 cr)</td>
</tr>
<tr>
<td>NRES 310 Intro to Forest Management (4 cr)</td>
</tr>
<tr>
<td>NRES 424 Forest Ecology (4 cr)</td>
</tr>
</tbody>
</table>

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**Aquatic Ecology Option**

**Aquatic Ecology Option Electives**

<table>
<thead>
<tr>
<th>Select from:</th>
</tr>
</thead>
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<tr>
<td>BIOS 457 Ecosystem Ecology (4 cr)</td>
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<tr>
<td>BIOS 472 Evolution (4 cr)</td>
</tr>
<tr>
<td>BIOS 473 Freshwater Algeae (4 cr)</td>
</tr>
<tr>
<td>BIOS 478 Natural History of the Invertebrates (4 cr)</td>
</tr>
</tbody>
</table>

**Fisheries and Wildlife**

**Total Credit Hours Required for**

<table>
<thead>
<tr>
<th>Total Credit Hours Required for</th>
<th>22-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>completion of the program</td>
<td>12</td>
</tr>
</tbody>
</table>

**Completion of Basic Courses**

The fisheries and wildlife major requires students to complete the following courses by the completion of the spring of their sophomore year.

- Final math requirements (MATH 104 or 106)
- Statistics (STAT 218)
- 3 hours of written communication
- BISO 101/101L
- NRES 220/222 Ecology
- CHEM 105 or 109
- PHYS (MSYM 109 or PHYS 151)

**Options**

**Aquatic Ecology Option**

This option is designed for students considering careers in water quality, aquatic ecology, or limnology. Completion of this program also provides excellent preparation for graduate study.

**Requirements**

<table>
<thead>
<tr>
<th>Select one course from the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 381 Invertebrate Zoology (4 cr)</td>
</tr>
<tr>
<td>BIOS 386 Vertebrate Zoology (4 cr)</td>
</tr>
<tr>
<td>BIOS 488 Natural History of the Invertebrates (4 cr)</td>
</tr>
</tbody>
</table>

**Animal Course**

<table>
<thead>
<tr>
<th>Select one course from the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 487 Field Parastology (4 cr)</td>
</tr>
<tr>
<td>BIOS 488 Natural History of the Invertebrates (4 cr)</td>
</tr>
</tbody>
</table>

| ENT 402 & 402L Aquatic Insects & Lab (3 cr) |
| NRES 464 Fisheries Biology (3 cr) |
| NRES 474 Hertepatology (4 cr) |
| NRES 489 Ichthyology (4 cr) |

**Plant Course**

<table>
<thead>
<tr>
<th>Select one course from the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 422 Wildland Plants (3 cr)</td>
</tr>
<tr>
<td>BIOS 455 Great Plains Flora (4 cr)</td>
</tr>
<tr>
<td>BIOS 471 Plant Taxonomy (4 cr)</td>
</tr>
<tr>
<td>NRES 310 Intro to Forest Management (4 cr)</td>
</tr>
<tr>
<td>NRES 424 Forest Ecology (4 cr)</td>
</tr>
</tbody>
</table>

**Conservation Biology Option**

This option is designed for students considering careers in conservation, research biology, restoration ecology, and policy. Completion of this program also provides excellent preparation for graduate study.

**Requirements**

<table>
<thead>
<tr>
<th>Select one course from the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 381 Invertebrate Zoology (4 cr)</td>
</tr>
<tr>
<td>BIOS 386 Vertebrate Zoology (4 cr)</td>
</tr>
<tr>
<td>BIOS 488 Natural History of the Invertebrates (4 cr)</td>
</tr>
</tbody>
</table>

**Animal Course**

<table>
<thead>
<tr>
<th>Select one course from the following:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 475 O Orthomology (3 cr)</td>
</tr>
<tr>
<td>BIOS 487 Field Parastology (4 cr)</td>
</tr>
</tbody>
</table>

| ENT 402 & 402L Aquatic Insects & Lab (3 cr) |
| NRES 464 Fisheries Biology (3 cr) |
| NRES 474 Herpetology (4 cr) |
| NRES 476 Mammalogy (4 cr) |
| NRES 489 Ichthyology (4 cr) |

**Fisheries Ecology and Management Option**

This option is designed for students considering careers in fisheries biology, biological research, and fisheries management. Completion of this program also provides excellent preparation for graduate study.

Students completing the Fisheries Ecology and Management option qualify for professional certification in the American Fisheries Society (APS). Students are encouraged to consult with...
their adviser and the AFS website for further information. AFS requires a minimum grade of a C to receive credit for courses that apply toward professional certification.

**Fisheries Ecology & Management Option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives</td>
<td>12</td>
</tr>
</tbody>
</table>

Select from:

- BIO 206 General Genetics (4 cr)
- BIO 373 Biopsychology (3 cr)
- BIO 381 Vertebrate Zoology (4 cr)
- BIO 454 Ecological Interactions (4 cr)
- BIO 462 Animal Behavior (3 cr)
- BIO 472 Evolution (4 cr)
- BIO 475 O O nithology (3 cr)
- BIO 487 Field Parasitology (4 cr)
- BIO 488 Natural History of the Invertebrates (4 cr)
- CH EM 251 Organic Chemistry (3 cr)
- EN TO 402 & 402L Aquatic Insects & Lab (3 cr)
- EN TO 411 Field Entomology (4 cr)
- M GT 360 Managing Behavior in Organizations (3 cr)
- M GT 361 Personnel/Human Resource Management (3 cr)
- N ES 211 Intro to Conservation Biology (3 cr)
- N ES 350 Wildlife Management (4 cr)
- N ES 388 Employment Seminar (1 cr)
- N ES 402 Aquatic Insects (2 cr)
- N ES 415 Water Resources Seminar (1 cr)
- N ES 450 Biology of Wildlife Populations (4 cr)
- N ES 464 Fisheries Biology (3 cr)
- N ES 468 Wetlands (4 cr)
- N ES 474 Herpetology (2 cr)
- N ES 476 Mammalogy (4 cr)
- N ES 489 Ichthyology (4 cr)
- N ES 492 Study Tour in Natural Resource Management (1-3 cr)
- PH YS 142 Elementary General Physics I (5 cr)
- POL S 210 Bureaucracy & the American Political System (3 cr)

**Geospatial Information Sciences Option**

This option is designed for students considering careers in wildlife biology that emphasize the use of technology such as geographic information systems, global positioning systems, and remote sensing. Completion of this program also provides excellent preparation for graduate study.

**Habitat Management Option**

This option is designed for students considering careers in habitat management, private lands management, or public lands (e.g., N ational W ildlife Refuge) management. Completion of this program also provides excellent preparation for graduate study.

**Law Enforcement Option**

This option is designed for students considering careers in wildlife law enforcement. Completion of this program also provides excellent preparation for entry into law enforcement agencies.

**NOTE:** 300- and 400-level Criminal Justice courses require permission of the department. Through special arrangements with the Criminal Justice Department, Fisheries and Wildlife
students can gain that permission by contacting Karen Fulton in the Criminal Justice Department.

**Hours**

**Requirements**.................................29-31

BIO S 386 Vertebrate Zoology.........................4

Animal Course..........................................3-4

Select one course from the following:

BIO S 475 Ornithology (3 cr)
N RES 464 Fisheries Biology (3 cr)
N RES 474 Herpetology (4 cr)
N RES 476 Mammalogy (4 cr)
N RES 489 Ichthyology (4 cr)

Plant Course...............................................3-4

Select one course from the following:

AGRO 442 W ildlife Plants (3 cr)
H OR T 212 Landscape Plants I (3 cr)
H OR T 350 Basic Fruit Production (3 cr)
N RES 310 Intro to Forest M anagement (4 cr)
N RES 424 Forest Ecology (4 cr)

Select one course from:

ASCI 250 Animal M anagement (3 cr)
BIOS 462 Animal Behavior (3 cr)
BIO S 486 Field Animal Behavior (4 cr)
N RES 348 Wildlife D amage M anagement (3 cr)
N RES 448 Advanced Topics in W ildlife D amage M anagement (3 cr)

N RES 450 Biology of W ildlife Populations..............4

Select two courses from:

AG R 1 200 Intro to Pesticides & Their Use (2 cr)
AG R O 204 Resource-Efficient Crop M anagement (3 cr)
ASCI 250 Animal M anagement (3 cr)
BIO S 312 & 314 Fundamentals of M icrobiology & W nel (4 cr)

**Wildlife Damage Management Option**

This option is designed for students considering careers in wildlife damage, wildlife consulting, extension education, airport wildlife mitigation, or wildlife management. Completion of this program also provides excellent preparation for graduate study.

**Hours**

**Requirements**.................................34-38

BIO S 386 Vertebrate Zoology.........................4

Animal Course..........................................3-4

Select one course from the following:

BIO S 475 Ornithology (3 cr)
N RES 474 Herpetology (4 cr)

N RES 476 Mammalogy (4 cr)
N RES 489 Ichthyology (4 cr)

Select one course from the following:

AG R O 204 Resource-Efficient Crop M anagement (3 cr)
AG R O 442 W ildlife Plants (3 cr)
N RES 310 Intro to Forest M anagement (4 cr)
N RES 424 Forest Ecology (4 cr)

Select one course from:

ASCI 250 Animal M anagement (3 cr)
BIO S 462 Animal Behavior (3 cr)
BIO S 486 Field Animal Behavior (4 cr)
N RES 348 Wildlife D amage M anagement (3 cr)
N RES 448 Advanced Topics in W ildlife D amage M anagement (3 cr)

Wildlife Disease Option

This option is designed for students considering careers in wildlife disease or public health. Completion of this program also provides excellent preparation for graduate study. Students interested in wildlife medicine or veterinary science should talk to their adviser regarding requirements for admission to the college of veterinary medicine. The fisheries and wildlife major, with the W ildlife Disease O ption, could be used as a second major for students majoring in veterinary and biomedical sciences.

**Hours**

**Requirements**.................................34-37

BIO S 386 Vertebrate Zoology.........................4

Animal Course..........................................3-4

Select one course from the following:

ASCI 250 Animal M anagement (3 cr)
BIO S 475 Ornithology (3 cr)
N RES 476 Mammalogy (4 cr)
N RES 489 Ichthyology (4 cr)

Plant Course..............................................3-4

Select one course from the following:

AG R O 442 W ildlife Plants (3 cr)
BIO S 455 Great W ildlife Flora (4 cr)
N RES 310 Intro to Forest M anagement (4 cr)
N RES 417 A groforestry S ystems (3 cr)
N RES 424 Forest Ecology (4 cr)
N RES 486 Mammalogy (4 cr)
R NGE 240 Forage C rop & Range M anagement (4 cr)
N RES 348 Wildlife D amage M anagement (3 cr)

**Disease Course**.................................3-4

VBM S 303 Princ iples & Prevention of Livestock Diseases (3 cr)
PLPT 475 Agricultural B iosafety (3 cr)
N RES 450 Biology of W ildlife Populations..............4

Anatomy and Physiology Course.................3-4

Select one course from the following:

ASCI 240 Anatomy & Physiology of Mammals (4 cr)
BIO S 213 M ammal Y degradation & W nel (4 cr)
BIO S 388 Comparative Anatomy of Vertebrates (4 cr)

**Microbiology Course**..........................

Select one course from the following:

N RES 448 Animal Biology (3 cr)
N RES 496 Independent Study (1 cr)
N RES 497 C areer Experience (1 cr)

W ildlife Disease Option

Wildlife Ecology and Management Option

This option is designed for students considering careers in wildlife biology, wildlife ecology, wildlife research, or wildlife management. Completion of this program also provides excellent preparation for graduate study.

This option was designed to meet the certification requirements of The W ildlife Society as an Associate W ildlife Biologist. Students should refer to The W ildlife Society's guidelines for certification during their academic career to keep current with any changes in these requirements. See www.wildlife.org for more details.

**Hours**

**Requirements**.................................28-31

BIO S 386 Vertebrate Zoology.........................4

Terrestrial Vertebrate Animal C ourses........7-8

Select two courses from:

BIO S 475 Ornithology (3 cr)
N RES 474 Herpetology (4 cr)
N RES 476 Mammalogy (4 cr)

Plant Course..............................................3-4

Select one course from the following:

AG RO 442 W ildlife Plants (3 cr)
BIO S 471 Plant T axonomy (4 cr)
BIO S 455 Great W ildlife Flora (4 cr)
N RES 208 A pp lied C linical Sciences (3 cr)
N RES 450 Biology of W ildlife Populations..............4

Additional W ritten Communication Course........3-4

Select one course from:

ENGL 140, 145, 240, 245, or ENGL 300, 303, or
NRES 496 Independent Study (1 cr)
N RES 497 C areer Experience (1 cr)
**Wildlife Ecology and Management Option**

**Electives...........................................6**

Select from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGR 1 200 Intro to Pesticides &amp; T heir Use (2 cr)</td>
<td></td>
</tr>
<tr>
<td>AGRO 204 Resource-Efficient Crop management</td>
<td></td>
</tr>
<tr>
<td>AGRO 315 Genetics (4 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 206 General Genetics (4 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 373 Biopsychology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 381 Vertebrate Zoology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 454 Ecological Interactions (4 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 462 Animal Behavior (3 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 470 Prairie Ecology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 472 Evolution (4 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 466 Field Animal Behavior (3 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 487 Field Parasitology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 488 Natural History of the Invertebrates (4 cr)</td>
<td></td>
</tr>
<tr>
<td>AGRO 497 Microbial Ecology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>CHEM 251 Organic Chemistry (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ENTO 402 &amp; 402L Aquatic Insects &amp; Lab (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ENTO 411 Field Entomology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>MGT 360 M anagement in O rganizations (3 cr)</td>
<td></td>
</tr>
<tr>
<td>MGT 362 Plant/Animal/Human Resource M anagement (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 211 Intro to Conservation Biology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 270 Biological Inverters (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 348 Wildlife Damage M anagement (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 388 Employment Seminar (1 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 425 Water Resources Seminar (1 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 448 Advanced Topics in Wildlife Damage M anagement (2 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 459 Limnology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 463 Fisheries Biology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 464 Fisheries Biology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 468 Wildlife Damage M anagement (2 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 489 Ichthyology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 492 Study Tours in Natural Resource M anagement (3-3 cr)</td>
<td></td>
</tr>
<tr>
<td>PHY 444 Vegetation Analysis (3 cr)</td>
<td></td>
</tr>
<tr>
<td>A nd/or any optional courses listed but not taken under the N atural Resource O ption courses, Fisheries and Wildlife courses or O ption requirements head-</td>
<td></td>
</tr>
<tr>
<td>tings in this program. Course work not listed here may be considered for transfer students; see your adviser for details</td>
<td></td>
</tr>
</tbody>
</table>

**Zoo Animal Care Option**

This option is designed for students considering careers in zoo keeping, animal care, animal rehabilitation, and animal training. Completion of this program also provides excellent preparation for graduate study.

**Requirements.......................................30-33**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 386 Vertebrate Zoology..........................4</td>
<td></td>
</tr>
<tr>
<td>Animal Course........................................7-8</td>
<td></td>
</tr>
<tr>
<td>Select two courses from the following:</td>
<td></td>
</tr>
<tr>
<td>BIOS 475 Ornithology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 474 Herpetology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 487 Field Parasitology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>Plant Course...........................................3-4</td>
<td></td>
</tr>
<tr>
<td>Select one course from the following:</td>
<td></td>
</tr>
<tr>
<td>AGRO 440 Great Plains Ecosystems (3 cr)</td>
<td></td>
</tr>
<tr>
<td>AGRO 442 Wi ldlife Plants (3 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 455 Great Plains Flora (4 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 473 Freshwater Algae (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 310 Intro to Forest Management (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 417 Agrof oresty Systems in Sustainable Agriculture (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 425 Forest Ecology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 435 Aquatic Ecosystems (3 cr)</td>
<td></td>
</tr>
<tr>
<td>RNEG 240 Forage Crop &amp; Range M anagement (4 cr)</td>
<td></td>
</tr>
<tr>
<td>Animal Behavior Course.............................3-4</td>
<td></td>
</tr>
<tr>
<td>Select one course from the following:</td>
<td></td>
</tr>
<tr>
<td>BIOS 462 Animal Behavior (3 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 468 Field Animal Behavior (4 cr)</td>
<td></td>
</tr>
<tr>
<td>Anatomy and Physiology Course.....................4</td>
<td></td>
</tr>
<tr>
<td>Select one course from the following:</td>
<td></td>
</tr>
<tr>
<td>ASCI 320 Animal Nutrition &amp; Feeding..........3</td>
<td></td>
</tr>
<tr>
<td>Education Course.....................................3</td>
<td></td>
</tr>
<tr>
<td>Select one course from the following:</td>
<td></td>
</tr>
<tr>
<td>ALEC 305 Presentation Strategies for A gricultural Audiences (3 cr)</td>
<td></td>
</tr>
<tr>
<td>EDPS 457 Learning and Motivation Principles for Secondary Teaching (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 497 Career Experience in Natural Resource Sciences..................3</td>
<td></td>
</tr>
</tbody>
</table>

**Zoo Animal Care Option Electives..........................6**

Select from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRO 315 Genetics (4 cr)</td>
<td></td>
</tr>
<tr>
<td>ASCI 341 Physiology &amp; M anagement of Reproduction (4 cr)</td>
<td></td>
</tr>
<tr>
<td>ASCI 370 Animal Welfare (3 cr) (recommended)</td>
<td></td>
</tr>
<tr>
<td>ASCI 421 Advanced Animal N utrition (3 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 206 General Genetics (4 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 312 Fundamentals of M icrobiology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 373 Biopsychology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 472 Evolution (4 cr)</td>
<td></td>
</tr>
<tr>
<td>BIOS 487 Field Parasitology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>CHEM 251 Organic Chemistry (3 cr)</td>
<td></td>
</tr>
<tr>
<td>MGT 360 M anagement in O rganizations (3 cr)</td>
<td></td>
</tr>
<tr>
<td>MGT 361 Personnel/ H uman Resource M anagement (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 411 Intro to Conservation Biology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 438 Wildlife Damage M anagement (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 448 Employment Seminar (1 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 448 Advanced Topics in Wildlife Damage M anagement (2 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 459 Limnology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 463 Fisheries Biology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 464 Fisheries Biology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 468 Wildlife Damage M anagement (2 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 489 Ichthyology (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 492 Study Tours in Natural Resource M anagement (3-3 cr)</td>
<td></td>
</tr>
<tr>
<td>POLS 210 Bureaucracy &amp; the American Political System (3 cr)</td>
<td></td>
</tr>
<tr>
<td>RNGE 444 Vegetation Analysis (3 cr)</td>
<td></td>
</tr>
<tr>
<td>A nd/or any optional courses listed but not taken under the N atural R esources O ption courses, Fisheries and Wildlife courses or O ption requirements head-</td>
<td></td>
</tr>
<tr>
<td>tings in this program. Course work not listed here may be considered for transfer students; see your adviser for details</td>
<td></td>
</tr>
</tbody>
</table>

**Forestry, Fisheries and Wildlife Minor**

A minor in Forestry, Fisheries, and Wildlife consists of 18 hours of course work. A divider for the minor will be assigned by the Fisheries and Wildlife major coordinator. Requirements are as follows:

**Hours**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 220 Principles of E cology............3</td>
<td></td>
</tr>
<tr>
<td>NRES 311 Wildlife Ecology &amp; M anagement (3 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 404 Forestry, Fisheries, &amp; W ildlife Seminar.</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>NRES 350 W ildlife Management T echniques (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 463 Fisheries Science (4 cr)</td>
<td></td>
</tr>
<tr>
<td>NRES 310 Forest M anagement (4 cr)</td>
<td></td>
</tr>
</tbody>
</table>

**Electives...........................................7**

Select seven hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
</table>

**Courses of Instruction for Fisheries and Wildlife (NRES)**

The courses offered provide: 1) an introduction to forestry, fisheries and wildlife sciences; practices and management; 2) knowledge of the interactions of plant and animal communities; 3) intensive study in individual phases of terrestrial and aquatic ecology; and 4) an understanding of relationships and interactions between the atmosphere and the biosphere; 5) opportunity for research.

For course descriptions, please see "Courses of Instruction (N RES)" on page 87.

**Natural Resource and Environmental Economics**

Coordinator: Professor Bruce Johnson, Department of Agricultural Economics, 314 B Fipley Hall

Natural Resource and Environmental Economics Curriculum Committee: Lynne Schoengold, Supalla
The natural resource and environmental economics major combines in-depth study of the natural sciences with economics, law, and other social sciences. The program provides students with training in the analysis of the benefits and costs of using natural resources and the environment for a variety of purposes including recreation, agriculture, wildlife habitat, industry, logging, and mining. In addition, the program emphasizes the assessment of public policies regulating the use of natural resources and environmental amenities. Students in this program work closely with faculty in both the Agricultural Economics Department and the School of Natural Resources.

Natural resource and environmental economics majors must complete at least 15 credit hours of agricultural economics courses for a grade (not Pass/No Pass).

**Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 211</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 212</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>AECN 357</td>
<td>Natural Resources and Environmental Law</td>
<td>3</td>
</tr>
<tr>
<td>STAT 218</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>NRES 220</td>
<td>Principles of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>NRES 412</td>
<td>Introduction to Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 102L</td>
<td>General Biology Lab</td>
<td>1</td>
</tr>
<tr>
<td>CSCE 150</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>STAT 218</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 104</td>
<td>Calculus for Managerial and Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MATH 106</td>
<td>Analytic Geometry &amp; Calculus</td>
<td>3-5</td>
</tr>
<tr>
<td>AECN 357</td>
<td>Natural Resources and Environmental Law</td>
<td>3</td>
</tr>
<tr>
<td>AECN 445</td>
<td>Agricultural &amp; Natural Resource Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 340</td>
<td>Urban/Regional Economics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 331</td>
<td>Operations Research</td>
<td>3</td>
</tr>
<tr>
<td>MGT 333</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGT 465</td>
<td>Resource and Environmental Economics II</td>
<td>3</td>
</tr>
<tr>
<td>SOIL 153</td>
<td>Introduction to Soil Science</td>
<td>4</td>
</tr>
<tr>
<td>NRES 423</td>
<td>Integrated Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>NRES 424</td>
<td>Natural Resource and Environmental Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 104</td>
<td>Calculus for Managerial and Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MATH 106</td>
<td>Analytic Geometry &amp; Calculus</td>
<td>3-5</td>
</tr>
<tr>
<td>AECN 357</td>
<td>Natural Resources and Environmental Law</td>
<td>3</td>
</tr>
<tr>
<td>AECN 445</td>
<td>Agricultural &amp; Natural Resource Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 340</td>
<td>Urban/Regional Economics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 331</td>
<td>Operations Research</td>
<td>3</td>
</tr>
<tr>
<td>MGT 333</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGT 465</td>
<td>Resource and Environmental Economics II</td>
<td>3</td>
</tr>
<tr>
<td>SOIL 153</td>
<td>Introduction to Soil Science</td>
<td>4</td>
</tr>
<tr>
<td>NRES 423</td>
<td>Integrated Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>NRES 424</td>
<td>Natural Resource and Environmental Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Economics**

- AECN 265 Resource & Environmental Economics I | 3
- AECN 445 Agricultural & Natural Resource Policy Analysis | 3
- ECON 340 Urban/Regional Economics | 3
- MGT 331 Operations Research | 3
- MGT 333 Management Information Systems | 3
- MGT 465 Resource and Environmental Economics II | 3

**Humanities and Social Sciences**

- AECN 212 Principles of Microeconomics | 3
- AECN 311 Intermediate Microeconomics | 3
- AECN 312 Intermediate Macroeconomics | 3
- AECN 445 Agricultural & Natural Resource Policy Analysis | 3
- ECON 340 Urban/Regional Economics | 3
- MGT 331 Operations Research | 3
- MGT 333 Management Information Systems | 3
- MGT 465 Resource and Environmental Economics II | 3
- SOIL 153 Introduction to Soil Science | 4

**Natural Resources**

- AECN 212 Principles of Microeconomics | 3
- AECN 311 Intermediate Microeconomics | 3
- AECN 312 Intermediate Macroeconomics | 3
- AECN 445 Agricultural & Natural Resource Policy Analysis | 3
- ECON 340 Urban/Regional Economics | 3
- MGT 331 Operations Research | 3
- MGT 333 Management Information Systems | 3
- MGT 465 Resource and Environmental Economics II | 3
- SOIL 153 Introduction to Soil Science | 4

**Minor Requirements**

- AECN 265 Resource & Environmental Economics I | 3
- AECN 445 Agricultural & Natural Resource Policy Analysis | 3
- ECON 340 Urban/Regional Economics | 3
- MGT 331 Operations Research | 3
- MGT 333 Management Information Systems | 3
- MGT 465 Resource and Environmental Economics II | 3
- SOIL 153 Introduction to Soil Science | 4

**Natural Resource Economics Minor**

This minor is intended primarily for students interested in natural resource management who are majoring in fields such as natural sciences, range science, soils, engineering, or fisheries and wildlife. The intent is to offer technically oriented students an opportunity to develop complementary economics and policy analysis skills.

**Core Requirements**

- ECON 211 Principles of Microeconomics | 3
- ECON 212 Principles of Macroeconomics | 3
- AECN 311 Intermediate Microeconomics | 3
- AECN 312 Intermediate Macroeconomics | 3
- AECN 445 Agricultural & Natural Resource Policy Analysis | 3
- ECON 340 Urban/Regional Economics | 3
- MGT 331 Operations Research | 3
- MGT 333 Management Information Systems | 3
- MGT 465 Resource and Environmental Economics II | 3
- SOIL 153 Introduction to Soil Science | 4

**Courses of Instruction (NREE)**

- ECON 211 Principles of Microeconomics | 3
- ECON 212 Principles of Macroeconomics | 3
- AECN 311 Intermediate Microeconomics | 3
- AECN 312 Intermediate Macroeconomics | 3
- AECN 445 Agricultural & Natural Resource Policy Analysis | 3
- ECON 340 Urban/Regional Economics | 3
- MGT 331 Operations Research | 3
- MGT 333 Management Information Systems | 3
- MGT 465 Resource and Environmental Economics II | 3
- SOIL 153 Introduction to Soil Science | 4

**Water Law**

- AECN 457/857, WATS 457 (3 cr II) Lec 3. Prereq: ECON 211 or MATH 104; one course in statistics (AECN 357) will not count toward any advanced degree programs in ECON or AECN.

**Resource and Environmental Economics II**

- AECN 456/856, WATS 456 (3 cr II) Lec 3. Prereq: ECON 211 or MATH 104; one course in statistics (AECN 357) will not count toward any advanced degree programs in ECON or AECN.

**Preforestry**

Coordinator: Professor James R. Brandle, School of Natural Resources, 407 Hardin Hall

Forestry deals with the development and use of forests and related lands for a variety of purposes such as wood, water, wildlife, forage, recreation, and aesthetics. Multiple uses are allowed on land where the public owns and manages the land. Multiple use is the foundation upon which management of our national forests is based; foresters today, through their forest management programs, are expected to provide a broad array of benefits to meet public demands. Students graduating from forestry programs find employment with federal, state, and local governments, and with private industry.

The preforestry curriculum consists of 60-70 hours selected from the courses listed below. Course selection is based on a student's background and career goals. A program of study will be developed by the student and the advisor that involves one or two years at the University of Nebraska before transferring to a forestry program at another accredited forestry school. If a student desires to enter the University of Nebraska at the University of Nebraska, the student should obtain information about the school's entrance requirements and curriculum as early as possible to avoid unnecessary loss of credit.

An agreement with the University of Nebraska allows a student to transfer directly from high school to the University of Nebraska without having to complete one or two years at the University of Nebraska.

Students interested in pursuing a preforestry program should select courses from the list below:

**Hours**

- STAX 218 Intro to Statistics | 3
- BIOS 101 and 101L General Biology and Lab | 4
- BIOS 109 General Botany | 4
- BIOS 112 General Zoology | 4
- CHEM 109, 110 General Chemistry I, II | 8
- CO MATH 109 or 209 Public Speaking | 3
- CSCE 150 Intro to Computer Programming | 3
- ECON 211, 212 Principles of Microeconomics | 3
- ECON 215, 216 Principles of Macroeconomics | 3
- ENGL 150 or 151 Composition | 3
- GEO 101 Physical Geology | 4
- GEO 231 Principles of Geology | 4
- MATH 104 Calculus for Managerial and Social Sciences | 3
Grassland Ecology and Management

Coordinator: Professor Walter H. Schacht, Department of Agronomy and Horticulture, 347 Keim Hall

Curriculum Committee: M. star, Stubbern, Wedin

The grassland ecology and management major is an integration of disciplines involved in the study, conservation, and utilization of grasslands. Students in this major develop a strong conceptual foundation in the physical and biological sciences in preparation for studying the ecology and management of grasslands in upper level coursework. A foundation of the major is multiple use, emphasizing integrated grassland management for water, wildlife, forage, recreation, and aesthetics. Students will learn through coursework, seminars, capstone experiences, and optional internships with state and federal agencies, research organizations, and private industry.

The grassland ecology and management major is designed for students whose career interests involve management of grassland habitats or ecosystem services. Graduates of the major will likely pursue careers as managers of grassland resources on private and public land with specialization in habitat management, grassland restoration/monitoring, or grassland management. Specifically, this curriculum prepares students for employment with environmental consulting firms, natural resources districts, public land management agencies, land use planning agencies, and federal and state wildlife divisions. The curriculum meets the civil service requirements of the federal government for range conservation positions in such agencies as the Natural Resources Conservation Service, Bureau of Land Management, and Forest Service. Further, the breadth of the curriculum prepares students for postgraduate education in most disciplines related to natural resource sciences.

Major Requirements

**College Integrative Courses**

- N RES 323 Natural Resources Policy .......................................... 3
- RNGE 444 Vegetation Analysis .................................................. 3
- Mathematics and Statistics ...................................................... 5
- MATH 102 Trigonometry (2 cr)
- MATH 103 College Algebra & Trigonometry (5 cr) or 1 hr. of MATH 101 may count toward this requirement.
- MATH 104 Calculus for Management & Social Sciences (3 cr)
- MATH 106 Analytical Geometry & Calculus (5 cr)

**NOTE:** Proficiency at the college algebra level must be demonstrated either by a placement exam or through course work. If MATH 103 is taken, only 2 cr hrs can be counted toward this requirement.

**STAT 216 Intro to Statistics** ..................................................... 3

**Communication**

- Written Communication ......................................................... 3
- Select from: ENGL 150, 151, 254, ENGL 120, 200 or 300
- Oral Communication ............................................................... 3
- Select from: COMM 109, 209, 212, or 311
- Communication and Interpersonal Skills Electives ................... 3
- Select from: ENGL 209, 211, 250, 252, 253, 254, ALEC 102, GEN 120, 200, 300, COMM 109, 209, 212, or 311

**Humanities and Social Sciences**

- AECN 141 Introduction to the Economics of Agriculture ........... 3
- AECN 265 Resource Economics ................................................. 3
- AECN 288 Ethics in Agriculture & Natural Resources ............... 3
- Essential Studies ........................................................................ 3
- Select one 3-credit course in each of the following three CASN R Essentials categories: (For the list of ES/IS courses see "Essential Studies Program List" on page 377.)
  - E. Historical Studies
  - G. Arts
  - H. Race, Ethnicity & Gender

**NOTE:** One 3-credit course with an international focus is to be selected from the list under "International Agriculture and Natural Resources Minor" on page 48 which counts towards CASNR R: ES/IS requirements.

**Free Electives** ........................................................................... 16-20

**Total Credit Hours for Graduation** ......................................... 128

Grassland Ecology and Management Minor

**Courses of Instruction (RNGE)**

**[IS] 240. Forage Crop and Range Management (RNGE 240) (4 cr, I, II) Lec 3, Lab 2, Prereq: AGRO 501 or GEO 419 or equivalent.**

**Course description, see AGRO 240.**


**Course description, see AGRO 242.**

**295. Internship in Agronomy (AGRO, SOIL 295) (1-5 cr, max 12, 11, III)**

**Course description, see AGRO 295.**

Environmental Restoration Science Major

Coordinator: Professor Steve Comfort, School of Natural Resources, 256 Keim Hall

Environmental Restoration Science Interdepartmental Committee: Kuzilla, M, and C, Ali, M

This major provides students an understanding of soil as a natural resource and as a component of all terrestrial ecosystems. The student will learn how soils influence ecological processes which take place above and below ground. An understanding of these processes will enable the student to deal with environmental management problems such as groundwater protection, natural resource management, urban and rural development issues, waste management, and understanding pollution abatement, and the most appropriate use for particular landscape as well as traditional agricultural production issues. Careers focus on environmental assessment, soil conservation, remediation of soil contamination and management of soil-plant interactions. Students interested in preparing for graduate work in soils can aim toward a variety of special areas including soil biology, fertility, chemistry, physics, mineralogy, and morphology.

Major Requirements

**Natural Resources Core** ......................................................... 22

- N RES 103 Food, Agricultural & Natural Resource Systems ......................................................... 3
- N RES 220 Principles of Ecology .......................... 3
- N RES 312 Intro to Geospatial Information Sciences ...... 3
Soil Science Minor

Category 1 - Required Courses

C omplete these three requirements:

- H ours

SOIL 153 Soil Resources..........................4
SOIL 209 Principles of Soil Management........4
or SOIL 361 Soils, Environment & Water Quality..4
SOIL 477 Great Plains Field Pedology............4

Category 2 - Advanced Soil Science Courses

Select two courses:

- H ours

SOIL 354 Soil Conservation & Watershed Management..4
SOIL 366 Soil Nutrient Relationships...............4
SOIL 455 Soil Chemistry & Mineralogy...............4
SOIL 460 Soil Microbiology.........................3
SOIL 461 Soil Physics..................................3

Category 3 - Courses in Related Fields

Select one course:

- H ours

AECN 265 Resources & Environmental Economics...3
CIVE 326 Principles of Environmental Engineering...2
CIVE 353 Hydrology......................................3
ECO 406 Environmental Economics and Policy........3
(also GEOL and AGRO 419)
NRES 281 Intro to Water Science......................3
(also AGRO/WATS 251)
SOIL 475W Water Quality Strategies................3
(also AGRO, CIVE, GEOL, MYSM, POLS, NRES, and SOCI 475)

Category 3 courses required in the major cannot be used for the soil science minor.

Courses of Instruction (SOIL)

101. Soil and Society (3 cr) Lec. Students in CASNR must use this as a free elective.

239. Intro to Water Science (3 cr)

Mathematics and Statistics

- H ours

MATH 102, 103, 104, 106 (0 nly 2 credit hours apply to requirement) ..................................................2
STAT 218 Intro to Statistics..........................3

Communications

- H ours

Written Communication......................................3
Select from: ENGL 150, 151, 254; GEN 200, 300
Or Oral Communication..................................3
Select from: COMM 109, 212, 311
Communications and Interpersonal Skills Electives..........................................................3

Humanities and Social Sciences

- H ours

ECON 211 or 212 or AECN 141........................3
Select one 3-credit course in each of the following five CASNR Essential Studies categories:

Area A. Natural Behavior, Culture & Social Organization
Area B. Historical Studies
Area C. Humanities
Area F. Arts
Area H. Race, Ethnicity & Gender

Select one 3-credit course with an international focus to be selected as described under college requirements.

Major Requirements

- H ours

AGRO 101 Physical Geology.............................4
NRE 357 Natural Resource & Environmental Law....3
SOIL 269 Soil Mangement..................................3
SOIL 354 Soil Conservation & Watershed Management..3
SOIL 361 Soils, Environment & Water Quality..........3
SOIL 366 Soil Nutrient Relationships.......................4
SOIL 477 Great Plains Field Pedology....................4

Select one of the following:

- H ours

GEOL 155 Elements of Physical Geography.........(3 cr)
METH 200W/Weather & Climate.................(3 cr)
WATS 252 Intro to Water Science.................(3 cr)

Select two from the following:

- H ours

GEOL 450 Surficial Processes (3 cr)
GEOL 465 Soil Geomorphology & Paleopedology........3
NRES 351 Aerial Photography in Land & Water Use....3
NRES 423 Integrated Natural Resource Management* (3 cr)
WATS 452 Irrigation Systems Management.............(3 cr)
WATS 468 Wetland (3 cr)

The following list of courses can be used to meet the above requirement but also have prerequisites that require the use of a free elective.

CIVE 353 Hydrology (3 cr)
NRES 453 Soil Environmental Chemical (3 cr)
SOIL 455 Soil Chemistry M & Minoology (3 cr)
SOIL 460 Soil Microbiology (3 cr)
SOIL 461 Soil Physics (3 cr)

Electives

- H ours

Free Electives.................................................21-22

Requirements for Graduate Study..........................128

* The course cannot be selected both the M Natural Resource Core requirement and the soils major requirement.
Major Requirements

### Water Science Minor

- **Required Courses**
  - WATS 281 Intro to Water Science (3 cr)
  - WATS 354 Soil Conservation & Watershed Management (3 cr)

- **Advanced Courses**
  - Law, Policy and Management (select at least one of the following):
    - AECN 357 Natural Resources & Environmental Law (3 cr)
    - CR PL 470 Environmental Planning & Policy (3 cr)
    - NRES 423 Integrated Resources Management (3 cr)
  - WATS 465 Resource & Environmental Economics II (3 cr)
  - WATS 475 Water Quality Strategies (3 cr)
  - WATS 475 Irrigation Systems Management (3 cr)

- **Total Credit Hours for Graduation**: 12-15

### Courses of Instruction (WATS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATS 109</td>
<td>General Botany</td>
</tr>
<tr>
<td>WATS 110</td>
<td>General Zoology</td>
</tr>
<tr>
<td>WATS 201</td>
<td>Limnology</td>
</tr>
<tr>
<td>WATS 243</td>
<td>Hydrology</td>
</tr>
<tr>
<td>WATS 252</td>
<td>Hydrology for Engineers and Environmental Scientists</td>
</tr>
<tr>
<td>WATS 253</td>
<td>Hydrology and Environmental Science</td>
</tr>
<tr>
<td>WATS 254</td>
<td>Hydrology and Environmental Science Laboratory</td>
</tr>
<tr>
<td>WATS 340</td>
<td>Environmental Systems Analysis</td>
</tr>
<tr>
<td>WATS 341</td>
<td>Environmental Systems Analysis Laboratory</td>
</tr>
<tr>
<td>WATS 361</td>
<td>Soils, Environment &amp; Water Quality</td>
</tr>
<tr>
<td>WATS 362</td>
<td>Irrigation Systems Management</td>
</tr>
<tr>
<td>WATS 408</td>
<td>Applied Irrigation Systems Management</td>
</tr>
<tr>
<td>WATS 418</td>
<td>Chemistry of Natural Waters</td>
</tr>
<tr>
<td>WATS 419</td>
<td>Water Quality Management</td>
</tr>
<tr>
<td>WATS 420</td>
<td>Irrigation Systems Management Laboratory</td>
</tr>
<tr>
<td>WATS 422</td>
<td>Limnology and Environmental Science Laboratory</td>
</tr>
<tr>
<td>WATS 462</td>
<td>Environmental Systems Analysis Laboratory</td>
</tr>
<tr>
<td>WATS 463</td>
<td>Fisheries Science</td>
</tr>
<tr>
<td>WATS 464</td>
<td>Water Quality Management Laboratory</td>
</tr>
<tr>
<td>WATS 465</td>
<td>Resource &amp; Environmental Economics II</td>
</tr>
<tr>
<td>WATS 466</td>
<td>Water Quality Strategies</td>
</tr>
<tr>
<td>WATS 468</td>
<td>Microclimate: The Biological Environment</td>
</tr>
<tr>
<td>WATS 475</td>
<td>Water Quality Strategies</td>
</tr>
<tr>
<td>WATS 498A</td>
<td>Senior Project I</td>
</tr>
<tr>
<td>WATS 498B</td>
<td>Senior Project II</td>
</tr>
</tbody>
</table>

**Note**: The Senior Project fulfills the capstone requirement for water science majors. The course consists of two credit hours in each of the last two semesters before a student graduates. The project is usually provided by private industry, government agencies, or nonprofit organizations. The course is designed to provide hands-on experience in the field of water science. The student must complete a project that involves the application of theoretical knowledge to solve real-world problems in the field of water science. The project is supervised by a faculty member and involves the presentation of the project at the end of the semester.
Pre-Natural Resources Program

Coordinator: Associate Professor David Wedin, School of Natural Resources, 411 Hardin Hall

Natural Resources Undergraduate Curriculum Committee: Comfort, Eisenhauer, Johnson, Powell, Schacht

Integrated Natural Resources Management

The courses listed below compose a non-degree program entitled Integrated Natural Resources Management. The program is designed for students who are interested in a bachelor of science degree in natural resources but are uncertain about a specific major. This list of suggested courses should provide the student maximum flexibility while ensuring that courses contribute to the degree programs of any of the majors within natural resources. Students may be in the program for two years (62 credit hours). Students may declare a major at any time during this program, but must declare a major at the completion of 62 hours.

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 101 Natural Resources Orientation</td>
<td>1</td>
</tr>
<tr>
<td>NRES/AGRI 103 Food, Agricultural &amp; Natural Resource Systems</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 101 &amp; 101L General Biology and Lab</td>
<td>4</td>
</tr>
<tr>
<td>Written Communications</td>
<td>3</td>
</tr>
<tr>
<td>SOIL 153 Soil Resources or GEOL 101</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 2</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AECN 141 Intro to Economics of Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>BIOS 109 General Botany or 112 &amp; 112L General Zoology and Lab</td>
<td>4</td>
</tr>
<tr>
<td>COMM 109 Fundamentals of Human Communication</td>
<td>3</td>
</tr>
<tr>
<td>MATH 102 Trigonometry or 106 Calculus</td>
<td>2-5</td>
</tr>
<tr>
<td>PHYS 151 Elements of Physics or MSYM 109 Physical Principles in Agriculture</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16-19</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES 220 &amp; 222 Principles of Ecology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 105 Chemistry in Context I or 109 General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>METR 200 Weather &amp; Climate or NRES 281</td>
<td>4</td>
</tr>
<tr>
<td>Intro to Water Science</td>
<td>3-4</td>
</tr>
<tr>
<td>Humanities and Social Sciences Elective*</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 4</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 106 Chemistry in Context II or 110 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>RNGE 240 Forage Crop &amp; Range Management</td>
<td>4</td>
</tr>
<tr>
<td>Humanities and Social Sciences Electives*</td>
<td>6</td>
</tr>
<tr>
<td>Communications Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

**Total Credit Hours** | **63-66**

* For the listing of courses see "Essential Studies Program List" on page 377.
College of Architecture

R. Wayne Drummond, F.A.I.A., Dean and Professor of Architecture
Mark A. Holstad, A.I.A., Associate Dean and Professor of Architecture

About the College

The College of Architecture is the visible manifestation of an architectural tradition that has served Nebraska for a hundred years. The College’s programs in architecture, interior design, landscape architecture, and community and regional planning have a proud tradition of excellence in education, research, and service to the State of Nebraska and the nation.

Architecture Hall, the symbolic and sentimental home of architecture at the University of Nebraska Lincoln, stands as a monument not only to an historic style of architecture, but also to the progress of a University and the thousands of students who ascended the famous wooden staircase into design studios. A student of 1894 would feel at home today in Architecture Hall, its exterior facade and basic layout little changed from its earliest days as a proud new library building. Only the nature of the architectural programs within has changed with time. There has been a long, steady progression toward excellence in architectural education and development of programs appropriate to the needs of society.

Today, the College of Architecture is a busy and exciting place. Some 600 students are enrolled in classes, learning with a faculty of 29 to explore the past, present, and future of our communities. From gallery displays and provocative seminars, to the quiet of the Architecture Library, the bustle of the design studio, and the excitement of a community town hall meeting, the College of Architecture is at work. It is the epitome of our land-grant university commitment to education, research, and service in the State of Nebraska and the Great Plains Region.

Nebraska has only one College of Architecture. Its services are unique to this state and to several other states in this region that lack adequate courses of study and services. Lewis Mumford once noted that the quality of a society is marked by the nature of its cities. Nebraska is proud of its “good life” and a great measure of that goodness is reflected in its architecture. A quick look at the documents and pamphlets used to describe this state, and at the photographs visitors take away, reveal content richly endowed in pleasing architecture, efficient community design, and attractive park systems.

The College of Architecture, through its programs in architecture, interior design, landscape architecture, and community and regional planning, offers a broad educational and research base for the study of the directions of a changing world. Even though the architecture and related programs address the classical heritage of our culture, they must also deal with the problem of tomorrow, as it begins to emerge. Students and faculty of the College of Architecture seek the best of the past to carry through today into the uncertainty of tomorrow. This is the challenge for education.

 Architects, interior designers, landscape architects, and planners are professionals with responsibilities to help communities anticipate and deal with change, thus ensuring that desirable change is achieved. Students today strive to identify and design preferred futures rather than react to probable events. Education at the College of Architecture is characterized by a quest for the means of improving the quality of life for all people on “the spaceship earth” but especially for the residents of the Great Plains of the United States.

Students pursue studies on an interdisciplinary basis through the professional staff within the College and also through organized, coordinated study programs involving professional, scientific, and academic staff from many departments within the University.

The College pursues a balanced agenda of traditional research and creative activity. These activities include the generation of new knowledge and the application of concepts and quantitative methods from the behavioral and social sciences to the current practical problems of communities, case studies exploring issues of sustainability and current practice, and creative activity exploring possibilities in the built and un-built environment. Funded projects sponsored by local, state and federal governments, as well as segments of the design and construction industries, provide students, especially in the advanced professional programs, with opportunities for practical laboratory experiences. The same community, design, planning, and research projects provide faculty with opportunities for continuing professional development.

The College is co-participant in the administration of the nationally recognized Nebraska Community Improvement Program (NCIP). The NCIP is a community recognition program involving some 200 Nebraska communities and neighborhoods each year. The College provides educational programs, technical assistance, and assists communities in identifying their needs, developing strategies, and carrying out community economic development through this program. University faculty have had opportunities to work with hundreds of Nebraska communities in assisting them in solving problems.
The College of Architecture is also a partner in the Nebraska Lied Main Street Program. Unlike other states working with the National Main Street Center, Nebraska is leveraging the strengths of the College of Architecture, the State Department of Economic Development, the State Historical Society and the State Department of Roads to provide a comprehensive community development and historic preservation initiative. The benefit of this state coordinated effort is that communities receive a higher quality of service than if the program was run independent of the state agencies. Also, the individual state agencies learn some of the "trade secrets" of the Main Street approach which they can reuse with other programs that are created in the future.

The College of Architecture’s interdependent programs of education, research, and public service are intensive, relevant, dynamic, and rewarding. The College is dedicated to the continued development and improvement of programs that enhance the ability of the architect, the interior designer, and the planner to create a better world environment.

Organizational Structure

The College of Architecture consists of four academic programs: architecture, interior design, landscape architecture, and community and regional planning. Architecture, interior design, and landscape architecture all have a two-year pre-professional program followed by professional degrees. In architecture, it is a four-year program in which students get a bachelor of science in design (BSD) degree and the professional master of architecture (M Arch) degree. The landscape architecture program is three years in which students receive a BSD following the professional bachelor of landscape architecture (BLA) degree. The interior design program is two years and culminates in the professional BSD degree. The Community and Regional Planning Program is exclusively a graduate degree program.

Both architecture and interior design have post-professional M S research degrees and architecture has a PhD degree program with the College of Education and Human Sciences.

Architecture

Architecture is a six-year course of study divided into three two-year segments. Students choosing to study architecture first enter the College as majors in pre-architecture. After completing a two-year curriculum in pre-architecture, students apply for admission into the Architecture Program's professional program. The administrative reorganization of the Professional Program in Architecture was approved by the Board of Regents in 1992 and has been approved by the Nebraska Coordinating Commission for Post-Secondary Education. The Professional Program in Architecture consists of two components: the two-year bachelor of science in design (BSD-Architecture) and the subsequent two-year master of architecture (M Arch).

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accreditation Board (NAAB), which is the sole agency authorized to accredit US professional degree programs in architecture, recognizes three types of degrees: the bachelor of architecture, the master of architecture and the doctor of architectural education. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

The professional master of architecture degree is fully accredited by the National Architectural Accrediting Board (NAAB). In addition to the normal two-year professional program, applicants with degrees from other fields may be eligible to enter the three-year master of architecture program with deficiencies. These deficiencies are evaluated by the program director on an individual basis after a review of the applicant’s transcripts and other pertinent professionally-related materials to the Student Affairs Committee. Students in this three-year program are required to complete 27 to 50 hours of selected undergraduate courses (a minimum of one additional year) prior to pursuing the professional program. Applicants with deficiencies exceeding 50 credit hours are not admitted.

For those who would like to pursue scholarship in architecture, the Architecture Program also offers an additional two-year professional master of science in architecture degree for students with a bachelors degree in architecture or a related discipline. In addition, students can gain the doctor of education in administration, curriculum and instruction in architectural education or the second master of science in architecture degree in a doctoral area of specialization, entitled Architectural Education, which is jointly sponsored by the College of Architecture and College of Education and Human Sciences. The program is designed for students interested in going beyond the professional degree in architecture to become architectural educators. The major purpose of the program is to provide academic preparation and professional development for those individuals who will serve as a) faculty members in programs of architecture in public and private post-secondary educational institutions and as b) administrative leaders of architectural programs in higher education.

Specifically, students in the program will be exposed to core areas in the field of higher education, especially as these relate to colleges and programs in architecture. Core areas of the program in higher education, a focus on coursework in the various social science disciplines of economics, organizational theory, politics, and sociology, and specific work in areas of advanced architectural education will accomplish the goal of providing students with a broad preparatory base for assuming faculty and/or administrative positions in colleges or programs of architecture.

Interior Design

The College of Architecture also administers the Interior Design Program. The four-year Interior Design Program is offered with a two-year Pre-Interior Design Program and a subsequent two-year bachelor of science in design (BSD-Interior Design) major. After completing a two-year curriculum in pre-interior design, students apply for admission into the College of Architecture's Interior Design Program. This Interior Design Program is fully accredited by the Council Interior Design Accreditation (CIDA). The Interior Design Program also offers a studio based, research M S degree through the Graduate College and through Distance Education.

Landscape Architecture

The Landscape Architecture Program is a five-year course of study that has been subdivided into a two-year pre-professional, two-year para-professional, and a one-year professional degree unit. Students receive a bachelor of science in design (BSD) at the end of the two-year pre-professional segment and a professional bachelor of landscape architecture (BLA) at the end of the fifth year. At the end of the first two years pre-professional segment, students are required to apply for admission into the professional segment of the curriculum. This review involves an evaluation of the students academic record and a portfolio of their work during the pre-professional studies. The Landscape Architecture Program is a candidate program for accreditation. It is anticipated it will be granted for all students as soon as it is allowed under the rules of accreditation defined by the Landscape Architectural Accreditation Board (LAAB).

Community and Regional Planning

The Community and Regional Planning Program offers the two-year professional master of community and regional planning degree, which is fully accredited by the Planning Accreditation Board (PAB).

UNO

The College of Architecture at the University of Nebraska at Omaha offers Pre-Architecture and Pre-Interior Design Programs as well as courses in the graduate Community and Regional Planning Program at the University of Nebraska at Omaha. Students interested in a comprehensive description of the College's programs on the Omaha campus should refer to the undergraduate and graduate bulletins of the University of Nebraska at Omaha.

For additional information or admissions questions please contact the Omaha Program Director at (402) 554-2934.

Facilities

The College is headquartered in Architecture Hall. All facilities of this unique and historic complex are located within the southwestern “arts” quadrant of the campus with convenient access to the Lincoln central business district. College lecture classrooms design and planning
This annual program brings architecture, planning, and interior design students into direct contact with nationally and internationally known professionals who are to be at the leading edge of their fields. Visitors and guest critics coming to campus are involved in public presentations and work with the students and faculty of the College in the classroom and studio. The program also provides advanced students with the opportunity to engage in intensive off-campus design charrettes within the offices of leading professional firms.

Hyde Chair of Excellence. Established in 1986, the Hyde Chair of Excellence allows the College of Architecture to attract visiting faculty of national and international distinction. Through this endowed position, renowned scholars and practitioners are invited to spend a semester or more in residence at the College, working with and teaching architecture, interior design, and planning students in studios, seminars, and in an informal mentor role as well.

The Hyde Chair of Excellence was made possible by the generosity of Mrs. Flora Hyde in honor of the memory of her late husband, A. Leicester Hyde. Recipients have included Joseph Esherick, Peter Cork, Christine Hawley, Wolff Prix, Raphaella Rapson, Tobias Faber, David Lewis, Tsukasa Yamashita, Ken DeMey, Larry Young, R.ick Lamb, Tom Wang, Charles Redden, Terry R ankine, Robert Evans, Robert Barbach, Bruce Graham, Ivar R icksdorp, Robert Bonder, Martin Hogue, and Johan Granberg.

Friends Association

The University of Nebraska's College of Architecture Friends Association was originally founded in 1982 as the College of Architecture Alumni Association. In 2004, the group changed its name to the College of Architecture Friends Association to mark the 25th anniversary of the University of Nebraska Alumni Association. The Association encourages various activities that help recognize the importance of the professions of architecture and planning, and allied disciplines, and to recognize persons and organizations providing meritorious service in these professions.

The Friends Association seeks to promote and support the mission and programs of the University of Nebraska's College of Architecture by encouraging the establishment of scholarships, fellowships and financial resources; promoting communication and exchange among members; promoting events and activities for alumni; and promoting continuing education for alumni. All graduates of the College of Architecture, its predecessor organizations, and those interested in supporting the College are eligible for membership.

Professional Advisory Council

The Professional Advisory Council of the College of Architecture is an advisory council consisting of persons prominent in fields of business and practice allied to architecture, community development, and education.

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College Scholarships and Awards

Financial assistance in several forms is available to students admitted to the College of Architecture. Available funds will vary over time. Interested students are invited to inquire in the Dean’s Office regarding opportunities for loans, employment, and scholarships.

Scholarships

AIA Nebraska Society Scholarships. Four scholarships to recognize architectural excellence of University of Nebraska-Lincoln College of Architecture students.

- Architectural Excellence. Presented to a 3rd-year student. GPA and portfolio would be the basis of selection. Student must be a graduate of a Nebraska High School and currently enrolled in the bachelor of science in architecture studies at the University of Nebraska-Lincoln.

- Architectural Excellence. Presented to a masters degree student. GPA and portfolio would be the basis of selection. Student must be a graduate or enrolled in the masters program for architecture at the UNL College of Architecture.

- Cultural Exploration. Presented to a 4th-year student. Funds would be used for foreign travel that include an architectural course of self-directed study. Study could be used for preliminary study for a masters design project. Student must be a graduate of a Nebraska High School. The recipient would be expected to present a report to the AIA Nebraska members upon completion of the exploration process.

- Minority/Diversity. Presented to a 3rd-year student qualified based on his/her minority/diversity status. GPA and portfolio would be the basis of selection.

AIA Nebraska W. Cecil Steward, FAIA-Architectural Excellence Scholarship. Presented to a 5th-year master's degree student at least one semester remaining. GPA and portfolio would be the basis of selection. Application should be made prior to commencement of the terminal project.

AIA/AAF Foundation Scholarships. Awarded annually to students enrolled in the master of architecture program in cooperation with the American Institute of Architects’ national scholarship program.

Architectural Foundation of Nebraska Scholarship. Awarded to high school students participating in the College of Architecture’s "Exploring a Career in Architecture" program. Recipients must enroll in the College of Architecture at UNL.

Architecture Program Faculty Scholarship. Awarded annually to students entering or enrolled in the Architecture Program by the faculty.

Alley Poyner Architecture Student Excellence Fund. Awarded to students in either an undergraduate or graduate architecture program, must hold junior standing or above, GPA of 3.0, and show financial need.

ASID Nebraska/Iowa Interior Design Scholarship. Awarded to an interior design student in the 3rd year of the professional program. The award is based on studio work and potential for success in the profession.

Bahr Vermeer Haacker Historic Preservation Fund. A scholarship for students interested in historic preservation within each of our programs, 3rd or above with a GPA of 3.0 or above.

Charles A. Wilscam Jr. Awarded to graduate or doctoral students with a GPA of 3.0.

Clark Enersen Partners Student Travel Scholarship Fund. Awarded to full-time undergraduate and/or graduate students pursuing their education through a study program nationally or internationally, junior class standing, GPA of 3.0 or above.

College of Architecture Alumni Association Scholarship. Awarded annually to entering freshmen in the Pre-Architecture Program. Awards are based on outstanding high school academic performance, the potential for success in architectural studies, and financial need.

College of Architecture Student Support Fund. This scholarship to benefit and support students within the College of Architecture by alumni supporting the College.

Professor Dale Gibbs Honor Scholarship. Enhances current efforts to recruit and retain outstanding young scholars in coordination with the University Honors Program.

Dana & DLR Scholars Fund. This fellowship is for students having professional program, graduate or professional fellows standing in architecture, interior design, and community and regional planning, GPA of 3.5 or above.

Darrell D. Rippeau Scholarship for Architecture and Business Management. Made available to College of Architecture students interested in writing and literature. Preference shall be given to candidates who submit a faculty letter or other printed materials.

James A. Murphy Memorial Scholarship. Made available to College of Architecture students interested in writing and literature. Preference shall be given to candidates who submit a faculty letter or other printed materials.

Joseph D. Vaccaro Scholarship Fund. Awarded to undergraduate students majoring in architecture at UNL or UNO, freshman class standing or above, GPA of 3.0 or above, and financial need. N. Assets be a Nebraska high school graduate.

Gary Lee Hansen Recognition Award. Awarded to students entering the Professional Program in Architecture who have demonstrated exceptional promise for a successful career in architecture.

Gary Spring/HDR Scholarship Endowment. For master of architecture students who have demonstrated academic excellence, show strong professional potential, and are worthy of assistance.

George Ralph Unthank, Jr. Memorial Scholarship. Awarded to students enrolled in the Professional Program in Architecture who have proven their ability to do satisfactory college work, shown promise of success in their chosen field, and are worthy of financial assistance. Preference shall be given to persons who graduated from a Nebraska high school.

Herb W. Seng Memorial Scholarship in Architecture. Available annually to male students enrolled in the Architecture Program who require financial assistance to complete their studies in architecture.

H. F. Cunningham Scholarship Fund for Excellence. Incoming freshman students who have demonstrated academic excellence and qualify as an honor student.

Hemphill Memorial Scholarship Fund. Awarded to students entering the master of architecture program who have demonstrated strong interest and a record of scholastic achievement in the study of the humanities.

Herold W. Seng Memorial Scholarship in Architecture. Available annually to male students enrolled in the Architecture Program who require financial assistance to complete their studies in architecture.

H.L. Architectural Scholarship. Supports students going into the sixth year. Also has an internship opportunity.

J. A. Shneider Fund. Awarded to enrolled students in the College of Architecture pursuing their masters degree in architecture. Preference shall be given to non-traditional students.

James A. Murphy Memorial Scholarship. Awarded to College of Architecture students interested in writing and literature. Preference shall be given to candidates who submit a faculty letter or other printed materials.

James Hassler Scholarship Fund. Awarded to upper division or graduate students within the College of Architecture who have expressed an interest in community development with a GPA of 3.0 or above.

Joseph D. Vaccaro Scholarship Fund. Awarded to undergraduate students majoring in architecture at UNL or UNO, freshman class standing or above, GPA of 3.0 or above, and financial need. Needs to be a Nebraska high school graduate.
Leo A. Daly Architectural Traveling Scholarship. Provides students the opportunity to broaden their architectural horizons by international travel and study. Selection is based on past academic accomplishments and proposed travel objectives.

Mary E. Roebs Scholarship. Awarded to full-time undergraduate students in the Architecture Program.

Nebraska Concrete Aggregate Association Architectural Scholarship. Awarded annually to 4th year students in the BSD program.

Nebraska Concrete Masonry Association Architectural Scholarship. Awarded annually to 4th year students in the BSD program.

Robert Davis Hayes Student Travel Fund. Supports students in the London Program.

Roger L. Schutte Student Excellence Fund. Presented to one or more graduate or doctoral students in the College of Architecture with a GPA of 3.0 or above.

Ron and Judy Hess London Program Endowment. Benefits and supports the London program (faculties, students, supplies, and equipment).

The Schenmier Associates Architectural Scholarship Fund. Architecture students going into their 4th or 5th year, GPA of 3.2 or above, a graduate of a Nebraska high school, and who demonstrate financial need.

Sinclair Hille Architects Scholarship Fund. Scholarships for candidates in 3rd year who have an interest in landscape architecture.

Yankee Hill Brick and Tile Architectural Scholarship. Awarded annually to winners of a design competition to students in the first year of the master of architecture program.

Harry F. Cunningham Bronze Medal. AIA Nebraska and the College of Architecture award the Bronze Medal for excellence in academic and design achievement. The medal was established to commemorate Harry F. Cunningham, a Fellow of the American Institute of Architects. Harry Cunningham oversaw the completion of the Nebraska State Capitol upon the death of Bertram Grosvenor Goodhue and established the School of Architecture at the University of Nebraska-Lincoln. The awarding of the medal is determined by a vote of the faculty and AIA-Nebraska after reviewing the master of architecture student’s final projects.

Henry Adams Medal of the American Institute of Architects. Awarded to a graduating student from the professional program who has the best scholarship record in the study of architecture.

Nebraska Chapter, American Planning Association Student Award. Presented annually to a person graduating from the master of community and regional planning program. This award recognizes outstanding academic performance and professional promise. Selection of the recipient by the faculty in the Community and Regional Planning Program is based upon academic grade point average, quality of the master’s thesis, professional project, or comprehensive examination, and general evaluation of the student’s academic abilities and professional promise.

Nebraska Society, American Institute of Architects Award. Granted each year to graduates from the professional program for meritorious achievement and professional promise.

Negussie Negawo Memorial Award. The Nebraska Chapter of the American Institute of Architects presents this award to a student in the master of community and regional planning degree program in recognition of special sensitivity and insight toward racial and ethnic minorities.

Negussie Negawo Memorial Award. The Nebraska Chapter of the American Institute of Architects presents this award to a student in the master of community and regional planning degree program. The recipient is chosen by the faculty in the Community and Regional Planning Program.

Tau Sigma Delta Bronze Medal. Presently awarded by the University of Nebraska-Lincoln to a graduating student in the master of community and regional planning degree program. The Bronze Medal recognizes distinguished achievement in the study of community and regional planning. The recipient is chosen by the faculty in the Community and Regional Planning Program.

Academic Advising

The College of Architecture is committed to providing effective advising services to students as an essential component of their educational experience. Students in the College of Architecture are assigned a faculty adviser who shares their interests and from whom they may ask questions about the professions, their future careers, and their academic plans and progress. Students are encouraged to regularly consult with their adviser and are responsible for initiating advising contacts and preparing for advising sessions. Students must consult with their adviser prior to registering for courses. Failure to do so may result in removal from classes. Ultimately, students are responsible for fulfilling all the requirements of the curriculum in which they are enrolled. The intellectual mentoring relationship between academic adviser and student is protected by confidentiality and strengthened by listening with understanding to student concerns.

The program offers house student records and the staff is helpful in checking on degree requirements and University procedures and policies.

Graduate and Professional Teaching and Research Assistantships

The College of Architecture has several teaching and research assistantships available each year. Students accepted into the master of architecture program, MS, and PhD/EdD programs or those who are in the process of making application for admission to the master of architecture program are encouraged to apply for these assistantships. A brief letter of interest and qualifications plus completed graduate assistantship recommendations forms (which are available in the Architecture Program Office) should be sent to the Architecture Program Office before March 1 of each year for consideration for the fall semester and November 1 for the spring semester.

Dean’s List

Each semester select undergraduate students enrolled in the College of Architecture are recognized for their scholastic accomplishments by being named to the Dean’s List. Criteria for this honor are:

1. Students must earn a semester (not cumulative) GPA that ranks them in the upper ten percent of the College’s enrollment.
2. Students must earn a minimum of 12 graded credit hours during that semester. (Pass/No Credit cannot be applied toward the 12 required credit hours)

Graduation With Distinction and With High Distinction

Students with outstanding scholastic records may earn the special honor of graduation with Distinction or High Distinction (students who earn a minimum of 12 credit hours during that semester). The honors are listed below.

Graduation With Distinction shall be awarded to students earning at least 50 credit hours in residence at UNL who are in the 90th percentile of those graduating in the prior twelve month period or who have a minimum 3.6 cumulative GPA.

Graduation With High Distinction shall be awarded to students earning at least 50 credit hours in residence at UNL who are in the 99th percentile of those graduating in the prior twelve month period or who have a minimum 3.9 cumulative GPA.
Graduation With High Distinction shall be awarded to students in the top half of those who meet the qualifications for graduation with distinction and have a minimum 3.8 cumulative GPA.

Graduation With Highest Distinction may be awarded by selection of the faculty to a student who meets the qualifications for graduation with high distinction and has demonstrated outstanding professional excellence through creative work.

Student Organizations

Student Advisory Board

The Student Advisory Board consists of elected representatives from the following programs within the College of Architecture:

1. One student from each 2-year segment in the architecture option (1st & 2nd, 3rd & 4th, 5th & 6th),
2. One student from each 2-year segment in the interior design option (1st & 2nd, 3rd & 4th)
3. One student from the Community and Regional Planning Program.
4. One student from the M S/PhD student population.

Plus the following individuals:

- a. Tau Sigma Delta president (ex officio),
- b. Alpha Rho Chi president (ex officio),
- c. ASUN representative of the College (ex officio),
- d. AIAS president (ex officio),
- e. SPAN president (ex officio), and
- f. ASID student chapter president (ex officio), and
- g. IIDA campus center (ex officio).

The Student Advisory Board selects students to serve on College committees, meets regularly with the Dean to discuss areas of concern regarding the welfare of the College and the needs of the students, recommends to the faculty specific curriculum changes or new proposals, recommends to the Dean and to the College Council specific changes in student affairs, facilities, or resource materials, and serves as a communication link between College committees and the student body.

American Institute of Architecture Students

American Institute of Architecture Students (AIAS) is the official student body organization in the Department of Architecture.

As the liaison between the students and practicing professionals, the organization provides close contact with the American Institute of Architects and its members as well as student organizations from other universities. In addition, the AIAS represents the student body on various faculty committees, makes recommendations to the department, hosts visiting speakers, and organizes various social activities. All students in the department are encouraged to actively participate in this organization, hopefully joining during their freshman year.

Tau Sigma Delta

Tau Sigma Delta is a national architectural and allied arts honorary society. The purpose of Tau Sigma Delta is to emphasize scholarship, leadership, and character; to stimulate mental achievement and effort; and to acknowledge those students who attain high scholastic standing in architecture and the allied arts of design by the reward of membership.

Membership in Tau Sigma Delta is by invitation only and is extended to undergraduate, professional, and graduate students in the top 20 percent of their respective classes.

Alpha Rho Chi

Alpha Rho Chi is the national coeducational professional fraternity for students of architecture and the allied arts. It is represented at the University of Nebraska by the Pythoeus Chapter. The aim of Alpha Rho Chi is to unite students in fellowship in order to promote their artistic, scientific, and practical proficiency. It serves as a catalyst toward achieving academic excellence and professional development within a framework of fraternal opportunities. It also participates in collegiate and community service projects which strive to improve the general welfare and environment of our society. Alpha Rho Chi offers a challenging, stimulating, and rewarding academic and fraternal experience, which helps prepare its individual members for responsible participation as leaders in their chosen professional and community life.

American Society of Interior Design

Students in interior design are eligible for membership in the American Society of Interior Design, and upon graduation may become allied members of ASID.

International Interior Design Association

Students in interior design may become members of IIDA's Campus Center and participate in both student and professional IIDA activities.

Student Planning Association of Nebraska

Membership in the Student Planning Association of Nebraska (SPAN) is open to students enrolled in the master of community and regional planning degree program. Interested students from other disciplines are eligible to become associate members.

This organization serves an advocate and liaison function for MCRP students with faculty practicing professionals, and outside the department. SPAN identifies and facilitates opportunities for the professional development of MCRP students and others interested in planning, as well as organizes social functions and a variety of educational experiences.

National Organization of Minority Architects

The student chapter of NOMA is open to all qualified individuals of race, creed, or nationality. The NOMA chapter encourages and promotes fellowship, cooperation, communication, and solidarity among students in the College of Architecture, as well as providing recommendations on policies affecting the students of the College and University. The student chapter seeks to encourage appreciation of multi-cultural issues in the allied design professions by hosting speakers, sponsoring conferences, and hosting various events during the year.

International Studies Programs

China. The College of Architecture has a formal agreement for an exchange of faculty and students with the Northwestern Institute of Architectural Engineering at Xi’an, People’s Republic of China. This exchange program was initiated in 1989.

Dublin, Ireland. During the fall semester, qualified students in the Department of Architecture can elect to study in Dublin, Ireland. Under an agreement with the Dublin Institute of Technology, students have an opportunity to complete one semester of their requirements toward a degree at U N L.

Hannover, Germany. During the spring semester, qualified students in the fourth or fifth year of the BSD program can elect to study in Hannover, Germany. Under an agreement with the University of Hannover, students have an opportunity to complete one semester of their requirements toward a degree at U N L.

Clermont-Ferrand, France. During the spring semester, qualified students in the fourth or fifth year of the BSD program can elect to study in Clermont-Ferrand, France. Under an agreement with the University of Clermont-Ferrand, students have an opportunity to complete one semester of their requirements toward a degree at U N L.

London, England. During each spring semester, qualified students may elect one semester of resident studies in London, England. The program offers students enrolled in the Department of Architecture the opportunity to study urban and architectural design in a cross-cultural and comparative manner. Under the direction of a faculty member of the Department of Architecture, the program is annually accommodated by a wealth of historic and modern case materials with cooperative assistance from educators and practicing professionals in the London area. Stephen Rienke (AIA, RIBA) serves as adjunct professor to the College and provides invaluable professional and cultural assistance to visiting UNL faculty and students.

Montevideo, Costa Rica. During the summer 3-week pre-session, the Community and Regional Planning Department offers a 3-credit advanced field studies course in Costa Rica, covering basic land development techniques in environmental, social, and economic aspects of sustainable community planning in developing regions and sensitive environments.

Architecture Internship

An internship program is available to students who have completed the BSD or its equivalent before or during the 5th and 6th year of the Professional Program in Architecture. Academic credit will be given (up to 6 hours) for this internship experience. Students will be required to apply for acceptance into the program and will be monitored by the program’s internship coordinator.

Interior Design Internship

All students enrolled in the Interior Design Program need to complete an approved internship as part of their professional requirements.
Students are not eligible for an internship until they are enrolled in, or have completed, IDES 351 Interior Design Studio 2.

**Planning Internship**

The Community and Regional Planning Program recommends that students without previous work experience in planning complete a field internship as part of the MCRP program. The internship involves a training period of actual service in a public or private organization. The field experience component of the MCRP program provides an excellent means for students to augment and expand their planning skills, to more closely examine their career aspirations, and to evaluate their academic progress. Internships provide students with unique learning experiences that are impossible to replicate in the classroom. Many internships provide financial assistance for students while they are in school and often facilitate their search for employment after graduation. The internship component of the MCRP program also is an important vehicle for fulfilling the public service mission of the Community and Regional Planning Program, the College of Architecture, and the University of Nebraska–Lincoln.

**Admission to the College of Architecture**

Admission to the University of Nebraska–Lincoln does not constitute admission to the College of Architecture. Students seeking enrollment in the College of Architecture should indicate their desire by marking the proper major code on the University application form. Freshmen students applying for admission to the College of Architecture must submit complete admission application materials by March 15. Please note this is different from the standard university procedures. Freshmen students applying for admission to the Pre-Interior Design Program must submit complete admission application materials by May 1 for fall admission and December 1 for spring admission. Transfer students must present materials by February 15. These admission procedures apply to high school students less than admission age, as well as transfer students, international students, and also those transferring from UNO and UNK to UNL.

Missouri Exchange Program. The University of Nebraska–Lincoln has a reciprocal exchange program with the University of Missouri through which students who are residents of Missouri may enroll in architecture or community and regional planning in Nebraska paying resident tuition. A Missouri resident interested in University of Nebraska–Lincoln’s Architecture or Community and Regional Planning Programs must apply for admission to UNL as a nonresident. Students enrolled in the Interior Design Program are not eligible for the Missouri Exchange Program.

Upon acceptance to UNL as an out-of-state student, a Missouri resident must notify the University of Nebraska–Lincoln Office of Admissions and establish proof of Missouri residency. The burden of proof rests with each applicant.

A Missouri student must be accepted into the College of Architecture’s Pre-Architecture Program, Architecture Program, or Community and Regional Planning Program in order to be eligible for in-state tuition.

Each semester, the Missouri student must maintain a grade point average of 2.0 or higher in all courses taken at UNL and submitted to the Architecture Program to submit prior to the tuition payment waiving the nonresident portion of his/her tuition.

**High School Standards—Pre-Architecture Program**

Prospective students interested in the Professional Program in Architecture are eligible to apply for admission into the pre-architecture major if their high school records meet the following standards:

1. Mathematics—4 units of Algebra I, II, geometry, and one-half unit of trigonometry, and one-half unit that builds on a knowledge of algebra or pre-calculus
2. English—4 units of extensive reading and writing
3. Social Studies—3 units At least one unit of American and/or world history and one additional unit of history, American government, and/or geography
4. Natural Science—3 units At least two of the three units selected from biology, chemistry, physics, and earth sciences. One of the units must include a laboratory.
5. Foreign Language—2 units

**Deficiencies**

Students who are admitted through the Admission by Review process with core course deficiencies will have certain conditions attached to their enrollment at UNL. These conditions are explained under “Removal of Deficiencies” on page 6 of this bulletin. For University policy, see “Graduation Requirements” on page 16.

**High School Standards—Pre-Interior Design Program**

Prospective students interested in the Interior Design Program are eligible for admission to the pre-interior design major if their high school records meet the following standards:

1. Mathematics—4 units of Algebra I, II, geometry, and one additional unit that builds on a knowledge of algebra
2. English—4 units of extensive reading and writing
3. Social Studies—3 units At least one unit of American and/or world history and one additional unit of history, American government, and/or geography
4. Natural Science—3 units At least two of the three units selected from biology, chemistry, physics, and earth sciences. One of the units must include a laboratory.
5. Foreign Language—2 units

**Deficiencies**

Each application that does not meet the requirements for assured admission will automatically receive individual review. The applicant’s total academic record and performance will be taken into consideration. If admitted, all deficiencies will have to be made up within the first academic year and are governed by University policies for removal of deficiencies. For University policy, see “Graduation Requirements” on page 16.

**General Admission Requirements for the College of Architecture**

In addition to the high school admission requirements, the College of Architecture has established the following general admission requirements for all undergraduate students.

**New freshman students must:**
- graduate in the upper quartile of their high school class, or
- have an enhanced ACT composite score of 22, or
- have a combined SAT verbal and math total of at least 1030 enhanced or
- receive permission from the chair of the department with a waiver from the above requirements.

**New international freshman students must:**
- meet UNL Entrance requirements for new international freshman students, and
- have a MELAB score of at least 80 or a minimum TOEFL score of 550, or computer based score of 213.

**New transfer students must:**
- have a minimum 3.0 cumulative GPA for architecture or 3.0 for interior design and be in good scholastic standing.

**NOTE:** New transfer students must comply with new freshman student entrance requirements if they have completed less than 12 credit hours of college study.

**New international transfer students must:**
- meet UNL entrance requirements for international transfer students,
- have a MELAB score of at least 80 or a minimum TOEFL score of 550, or computer based score of 213, and
- have a minimum 3.0 cumulative GPA and be in good scholastic standing.

**Students who transfer into the College of Architecture from other colleges at UNL must:**
- have a minimum 3.0 cumulative GPA for architecture or 2.8 for interior design and be in good scholastic standing. Students transferring from UNO and UNK are included in the new transfer student category.

**NOTE:** New transfer students must comply with new freshman student entrance requirements if they have completed less than 12 credit hours of college study.
Readmission

Students who apply for readmission to the College of Architecture must have a minimum 3.0 cumulative GPA for architecture or 2.8 for interior design, be in good scholastic standing and receive permission from the Dean of the College. Students may apply for admittance into the Pre-Architecture and Pre-Interior Design Program a maximum of three times.

College Evaluation of Transfer Credit

First-time students transferring to the College of Architecture from a similar accredited professional degree program will be evaluated on the basis of the current undergraduate bulletin in effect at the time the student enrolls in the College of Architecture.

Process. The program director will select and identify those courses that are applicable to the Professional Program in Architecture and the Interior Design Program. The College of Architecture will not accept courses for transfer which are below a 2.0 on a 4-point scale.

Evaluation of Technical and NonAccredited Transfer Credits. Students who desire to transfer credits from technical or nonaccredited colleges must have architecture credits evaluated by the director and/or appropriate program representatives. Non-architecture credits will be evaluated by the appropriate university department.

Evaluation of Graphics, Design, and Production Drawing Credit. Transfer credit for graphics, basic and architectural and/or interior design work and production drawings will not be granted until the student's work has been reviewed by the Architecture or Interior Design Program Director. Allowable transfer credit in the design, production drawings, and graphics areas, whether the grades presented are C, B, or A, will be determined from this review and the student placed accordingly.

Confirmation procedure:
1. It is the student's responsibility to initiate this task.
2. The student procedure is to obtain the confirmation form from the Program Office and to seek review of appropriate materials and
3. A "portfolio review" will determine confirmation of credit. This review will be done by the appropriate faculty member or committee.

Evaluation of General Education Credits. Transfer students who have formally applied for admission will have their academic credits evaluated by the University Office of Registration and Records and the College of Architecture. The College will evaluate all hours submitted on an admission application but reserves the right to reject any of these credits.

Clarification and Appeal. The student who has questions or wishes to appeal the initial College evaluation of his or her transfer credit should contact the Program Office. If the evaluation is not satisfactorily resolved, the student has the right to register an appeal with the Student Affairs Committee of the Architecture or Interior Design Programs.

Off-Campus Programs

The College of Architecture recognizes the need for some students to pursue their pre-architecture and pre-interior design studies at other institutions. Up to two semesters (30 semester credit hours) of off-campus study should cause minimal delay in students' educational timetables if courses can be selected from the following list and are approved by the College of Architecture. Students are encouraged to coordinate their off-campus Pre-Architecture and Pre-Interior Design Programs with the College of Architecture.

Recommended Courses

Art Studio elective (10 hrs)
Calculus (5 hrs) for pre-architecture or statistics for pre-interior design (3 crs)
English Composition electives (6 hrs)
Humanities and Social Sciences electives (9 hrs)
See U N L E S /15 requirements
Physics (4 hrs) for pre-architecture or Natural Science for pre-interior design (4 hrs)
Speech (3 hrs)

College of Architecture Enrollment Policy

Enrollment in the pre-architecture and pre-interior design majors shall be limited by available teaching resources and space capacities, therefore an enrollment limit is established for each of these programs.

Admission to the Pre-Architecture and Pre-Interior Design Programs occurs year-round; however, access to studio courses is not guaranteed for those students admitted beyond the February 15th deadline for transfer students or March 15th deadline for freshmen.

College Academic Policies

General Academic Requirements

Essential Studies/Integrative Studies

Since fall semester 1995, all incoming freshmen have been required to meet the University's General Education Program. This requires students to take courses that will fulfill both the Integrative Studies and Essential Studies course requirements. Any of these courses are part of the required core curriculum. Consultation with your advisor will be helpful in the planning of your course selection to fulfill this requirement.

Essential Studies [ES]. Courses aimed at giving the undergraduate an expanded horizon and fuller intellectual perspective. Each student is required to take nine ES courses (one communications, one mathematics/statistics, two human behavior/cultural studies/social organization, one science and technology, one historical studies, one humanities, one the arts, and one race/ethnicity/gender).

Integrative Studies [IS]. Courses aimed at developing the critical inquiry abilities of the undergraduate student. Each undergraduate is required to take ten IS courses. Students may not take more than three IS courses in any one department and must take at least one 200-, 300- and 400-level course to fulfill this requirement. Students are not allowed to transfer in courses to fulfill this requirement, but they may be able to reduce the number required depending on the number of transfer credits accepted by the department. The department transfer office will make an initial evaluation after admission to the department to determine the reduced number required.

English

It is of vital importance that architects and interior designers be able to express themselves clearly and concisely. As a matter of routine, architects and interior designers are called upon to prepare reports, papers, or specifications in which clarity and precision are essential. For this reason, a student is required to do more than meet the English composition course requirement. In daily oral and written work the student must demonstrate an acceptable skill in the use of effective English. The dean may require students who fail to meet acceptable standards to do additional work in English composition or speech communication. Each instructor is expected to bring to the dean's attention the students who need additional work.

Students are expected to take either ENGL 101 plus ENGL 151. Or they may take ENGL 150 plus ENGL 151. ENGL 186, 187 and 192 may not be used to satisfy the freshman English composition requirement.

Mathematics

Students in the Architecture Program are required to receive credit for MATH 106. Courses taken as deficiencies to qualify for MATH 106 will not apply as credit toward their degree. Students in the Interior Design Program are required to take either MATH 203 or STAT 218 to fulfill their mathematics requirement.

Registration Policy

Drop/Add

The university's drop/add policy is outlined in the Schedule of Classes each semester. The professional program subscribes to the same rules and limitations indicated in this publication. In general, classes can only be added during the first week of the semester. You may drop a class from your schedule anytime during the first eleven weeks of the semester. After the eleventh week, withdrawal from the class is possible only for extraordinary circumstances and will be granted only by petition. Grounds for extraordinary withdrawal include military service, medical illness, death in immediate family, personal trauma, or complete absence from all classes without official withdrawal.

The specific deadline for dropping a class is listed in the Schedule of Classes. Students who drop a class after each deadline listed in eNroll or use the NRoll telephone registration system (402-472-7272) to drop or add classes. Please be warned, failure to attend classes does not constitute proper notification of dropping a class. If you are unable to attend classes, you need to see or telephone your instructor as soon as possible. Failure to do so may jeopardize
your chances for dropping the class. If you wish to drop all your courses you need to use the \textbf{W}ithdrawal from the University form. See the section below for a description of this process. The Drop/Add form is available in the Program Office.

\textbf{Pass/No Pass}

N one of the required classes offered in the professional program are offered \textbf{P}ass/\textbf{N}o \textbf{P}ass, but a maximum of 12 Pass/No Pass credit hours of humanities, social sciences, or open electives may be taken from departments outside the College of Architecture.

Courses taken outside the Architecture or Interior Design Programs to fulfill the upper level outside elective requirement at the 800 level or 900 level, with or without a 400-level counterpart in a minor, collateral, or supporting area of work, can be taken on a Pass/No Pass basis.

\textbf{Course Substitution}

Students wishing to propose a course substitution in their curriculum of study must petition the Professional Program Committee by completing a substitution form. The substitution form should be filled out in consultation with your academic adviser. All proposals must include a detailed explanation for the substitution. The student’s adviser must review and sign the completed form before it can be submitted to the Professional Program Committee. It is very important that these procedures be followed for an expeditious response to the proposal. Substitutions must be approved before enrolling in a substitute course.

Students are advised the Professional Program Committee meets once a month, and will not consider any substitution proposals without a completed form and explanation signed by their adviser. The process to obtain a course substitution is lengthy, and can not be accomplished at the “eleventh hour” to compensate for poor academic planning.

Copies of the substitution form are available in the Program Office.

\textbf{Independent Study}

Credit hours earned through independent study (ARCH 398, 498, 598, and 898) need to be formally arranged with the faculty member supervising the work prior to registration for those credit hours. This is accomplished through completion of the Independent Study Contract available in the Program Office. It must have the signature of the faculty sponsor and be filed with the Program Office in order to be valid.

Students are limited to a total of 9 credit hours of independent study over the course of their academic career in the professional program.

\textbf{Transfer Credit}

All professional credit earned at another university is to be applied toward the master of architecture degree program must be approved by the Professional Program Committee in cooperation with the Program Chair. At least 50 percent of the required course work for the professional degree must be completed at the University of Nebraska-Lincoln with the exception of those students who are applying to enter the program with a four year degree from an accredited architecture program. No professional transfer credit will be accepted from a non-accredited architecture program.

\textbf{Registration Limitations}

Students are not allowed to register for 300-800 level architecture or interior design courses unless they have been admitted into their respective professional programs. Some specific courses allow registration of non-majors with permission of the faculty member teaching the course but this permission process is not available to majors.

The programs have adopted limits on the number of credit hours a student can register for without permission of the Chair. Students in good academic standing are allowed to register for a maximum of 17 credit hours. Students wishing to exceed this number must secure permission from the Chair prior to registering for the courses. Under no circumstances can a student register for more than 19 hours in a semester.

Students who are on academic probation are restricted to a maximum number of 12 credit hours. Under no circumstances will they be allowed to exceed this number while on probation. For more specific limitations for students on academic probation see the text on Academic Standing earlier in this section.

\textbf{Withdrawal from the University}

Dropping all classes in which you are enrolled constitutes a withdrawal from the University. Before the midpoint of the semester you can withdraw from all your classes using eN Roll online or by using the N Roll system (472-7727, transaction code 9), file an Application for Withdrawal at the Registration Services Center in the Administration Building, or send a letter to the Registration Office. After the halfway point one can withdrawals using eN Roll or N Roll Systems.

If you are receiving financial aid it is strongly recommended that you visit with your office before you initiate the withdrawal. You may be liable for the return of funds.

\textbf{Military Science, Naval Science, Aerospace Studies and/ or Physical Education}

A maximum combination of courses in these areas totaling 6 credit hours can be applied toward the bachelor of science in design degree as elective credit.

\textbf{Full Time Status/ Credit Hour Limits}

Students in the bachelor of science in design (BSD) degree program must be enrolled in 12 credit hours of course work to be classified as a full time student. Students in the master of architecture degree program must be enrolled in 9 credit hours of course work to be classified as a full time student. Students participating in one of the department’s study abroad programs enrolled in less than the credit hours specified above may also be classified as full time students with permission of the chair.

BSD students must obtain permission from the chair of the department to enroll in more than 17 credit hours prior to the start of the semester. Students in the MArch program must obtain similar permission to exceed 15 credit hours.

\textbf{Employment Course Load Guidelines}

The study of architecture is a demanding discipline requiring a significant commitment to succeed. For this reason, the department has adopted a policy recommending students who are employed to not exceed the following registration guidelines:

\begin{tabular}{|c|c|}
\hline
Work load per week & Course load per semester \\
\hline
0 hours & up to 18 credit hours \\
8-16 hours & 13-16 credit hours \\
17-20 hours & 10-12 credit hours \\
full time & up to 6 cr hours \\
\hline
\end{tabular}

Professional students holding teaching or research assistantships are required to be enrolled as a student in the professional program and their course load cannot exceed 12 credit hours per semester. Students holding these positions are prohibited from engaging in any other form of remunerative employment without the permission of the Chair of the Program.

\textbf{Senior and Professional Check and Application for Degree}

During the last semester of the third year of study, senior checks are to be initiated by the student and reviewed by the student’s adviser. The senior check forms are maintained by the adviser and filed in the students’ advising folders. Students must complete senior checks with their advisers and, after the adviser signs off on it, submit them to the Program Office for final processing and approval during early registration for their last semester in the BSD program.

A similar procedure applies to students in the MArch program. The professional check will be initiated in the student’s first year in the program. The final check, with their adviser and submitted to the Program Office for processing and approval, should occur during the early registration period for the last semester in the MArch program.

Students in both the BSD and MArch degree programs must also file a graduation notice with the Credentials Office early in the semester in which they intend to graduate. Failure to meet the published deadline will delay graduation one full term.

\textbf{Course Hold for Professional Credit}

Seniors who have obtained in advance of the approval of the Chair of the Architecture Program may receive up to 12 hours credit toward their M Arch degree prior to the completion of their BSD degree provided the following conditions are met:

- they are above the courses required for their BSD degree;
- are taken under the 500 number; and
- are taken in the calendar year prior to the receipt of the BSD.
Degree Time Limits

Students will be required to complete course work for their degree within a ten year period from the time they are admitted into the professional program in the third year.

Grading and Academic Standing

The standing of a student in any course is determined by the instructor(s) in charge by personal observation, examination, and evaluation of student projects. Specific methods of evaluation are included in individual course syllabi. If a student has any questions regarding evaluation it is their responsibility to engage the faculty member offering the course in discussion to clarify their intent.

Minimum Grades

Students must earn at least a C (2.0) in all courses with an ARCH or IDES prefix to earn credit toward their degree. Students will be required to retake all core required courses by a grade of C - or below, but will not be required to repeat courses that were taken as electives.

Removal of Grades C- or Below

A professional student receiving a grade of C- or below for an overall course grade may remove that grade by retaking the same course again and receiving a higher grade. The higher grade will be used to compute the student's cumulative grade point average, but all grades appear on the student's transcript. The Pass No Pass option cannot be used to remove these grades from the grade point average. Please be advised that once a course is no longer taught and no longer offered by the department it is not possible to remove a grade of C- or below through substitution or any other means.

Should you perform poorly in many courses during a semester it is possible to bankrupt the entire semester's grades. This is a drastic action and should be pursued only after a visit with your adviser.

Incomplete Grades

Incompletes for students in the pre-professional program shall be granted only for reasons outlined in the policy statement adopted by the University Senate. See the U N L Schedule of Classes for the complete text.

Incompletes given to students in the professional program are granted at the discretion of the faculty awarding the grade. The faculty and student together must file an incomplete form in the department office to register the anticipated completion date and the grade that will be registered if the work is not completed by that time.

Architecture students will be allowed a maximum of two weeks to remove incompletes from courses that are prerequisites to classes in which they are currently enrolled or they will be administratively dropped from those courses.

Scholastic Standing

The following scholastic standards have been established to maintain the level of quality for students enrolled in the Architecture Program.

Pre-Professional Program, Architecture and Interior Design

Students in the first year are required to maintain both a semester and cumulative grade point average at or above 2.0. The standard rises to a grade point average of 2.6 in the second year. Admission into the third year of both programs requires a cumulative grade point average of 2.6. The College places students who fail to meet these standards on academic probation.

Third and Fourth Year, Architecture

Students in the third and fourth year of the B.S.D. program are required to meet two parallel academic standards. First, the student must maintain a semester grade point average of 2.6 to remain in good academic standing. The Program places students who fail to meet this standard on academic probation. Further, students whose GPA for the academic year is between 2.6 and 3.0 are required to submit their studio work for review by the Student Affairs Committee for determination of continuance in the program or repetition of the year's studio sequence.

Third and Fourth Year, Interior Design

Students in the third and fourth year of the B.S.D. program are required to maintain a 2.6 cumulative grade point average to remain in good academic standing. The Program places students who fail to meet this standard on academic probation.

Fifth and Sixth Year, Architecture

Students in the M.Arch program are required to maintain a semester grade point average of 3.0 to remain in good academic standing. The Program places students who fail to meet this standard on academic probation.

Probation, Appeals and Dismissal

Probation

B.S.D. students who are placed on probation will not be allowed to take any new architecture or interior design courses without the permission of the Program Director. Students will be allowed to retake architecture and interior design courses while on probation. Students may not take the same course more than three times.

Students in the B.S.D. degree program placed on academic probation by the College for two consecutive semesters will be transferred out of the College of Architecture into General Studies and must reapply for admission to the College and the Architecture or Interior Design Programs. Students must have a cumulative GPA of 3.0 to be readmitted from General Studies into architecture and 2.8 into interior design.

Students in the M.Arch program placed on probation will be allowed to continue with their classes for one semester. If their next semester grade point average is below 3.0 they are dismissed from the degree program. Students desiring to be readmitted will have to apply for admission to the professional program.

Students who register for new architecture or interior design courses while on probation will be administratively dropped from those courses unless they have received the permission of the Program Chair.

Grading Appeals

A student wishing to appeal a grade should contact his or her professor for clarification first. If an appeal cannot be resolved with the instructor it is recommended that the student meet with their advisor to get clarification on the appeals process. Appeals are only considered where it can be demonstrated that prejudice or capricious treatment influenced the grade received by the student.

Having exhausted these avenues a student may then choose to make a formal appeal. The appeal is in the form of a written statement from the student to the Program Chair. The appeal will be considered by the Faculty Affairs Committee. The deadline for filing a grade appeal (which includes a written statement from the student) is 30 calendar days after the first day of classes of the next regular semester (fall or spring). Appeals filed after the deadline will not be heard.

Appeal of Academic Dismissal

A student wishing to appeal a dismissal or suspension from the University, College, or Program must contact their advisor. The student should complete the Academic Reinstatement Appeal form available in the Dean or Program offices.

Readmission to the College of Architecture

Former students who withdraw after being admitted to the College, or who have been academically suspended and wish to be readmitted must: a) be readmitted to the College in good scholastic standing, and b) be in good scholastic standing in accordance with the departmental standards and receive permission from the chair of the department. Applicants for readmission will compete for spaces available with all other admission applicants.

Ownership of Class Work

Significant student work will be retained on file by the program each semester as a necessary record for accrediting purposes and periodic display. Other student work must be retrieved by the student no later than 7 working days past the end of the semester.

The College of Architecture is responsible for storing or returning student work. In addition, all padlocks left on lockers will be cut, and the materials in the locker's confiscation after completion of spring semester.

Degree Programs and Areas of Study

Architecture Program

Program Director: Mark Hoistad, 232 Architecture Hall
Professors: Borner, Duncan, Hoistad, Kuska, Laging, M. utunyagam, Potter, Scholz
Associate Professors: Ertl, Handa, Krug
Assistant Professors: Day, Despang, Ford, Hinchman, Jung, M orgado
Professors Emeritus: Corkill, Gibbs, Guenter, M oore, Puderbaugh, Sawyers, Steward
The primary responsibility of the architectural and interior design profession is the design of meaningful environments for human occupation and use. Architects and interior designers, therefore, must be able to understand the needs and desires of the people who will inhabit and use their creations and then effectively synthesize the complex structural, mechanical and constructional components that go into the design of a building. Clearly, they must possess artistic talent as well as technical knowledge.

The Architecture Program seeks to increase students' desire to learn and to develop a capacity for critical thinking and sound judgment while simultaneously developing their innate creative potential. Specifically, the curriculum provides the background and means for the student to:

1. Analyze and understand society's needs and desires,
2. Translate these into a physical form,
3. Contribute creatively to the building construction industry,
4. Search out new problems and contribute to environmental knowledge through research,
5. Initiate and review changes in technology and society, and
6. Participate in the community that makes decisions affecting the physical environment.

The Master of Architecture Professional Program

General

The Professional Program in Architecture is a four-year course of study, which commences with the student's junior year, awards the bachelor of science in design at the end of the senior year, and culminates with the first professional degree, the master of architecture degree, after an additional two years of study. Students must have successfully completed the two-year Pre-Architecture Program before entering the four-year Professional Program in Architecture. Although the bachelor of science in design degree is an integral part of the four-year Professional Program in Architecture, it should be clearly understood that the undergraduate BSD is not a professional degree and is not accredited by the National Architectural Accrediting Board. Most state registration boards will not acknowledge any degree unless accompanied by an accredited professional degree.

The accredited professional degree awarded by the College of Architecture is the master of architecture degree which is awarded at the successful conclusion of the Professional Program in Architecture. This is the only accredited professional architecture program in the state of Nebraska.

Upon successful completion of the two-year Pre-Architecture Program and admission to the four-year Professional Program in Architecture, students may enroll in the curriculum that leads to the BSD degree and the MArch degree.

The Professional Program in Architecture is structured to develop highly competent professional architects. Each applicant, depending on previous academic training, professional practice, and specific interest, will work with their advisor in establishing a specific program of study suited to his or her abilities and career objectives.

Pre-Architecture Curriculum

Completion of the Pre-Architecture Program is required for admission to the Architecture Program (third year admission). The pre-architecture curriculum can be referenced through the current listing of courses available in room 232 in Architecture Hall or the College Web page.

Admission to the 4-Year Master of Architecture Program

After completion of the first two years of pre-architecture or pre-interior design studies, either within the College of Architecture or at another institution, students may apply for admission to the Architecture Program.

Pre-architecture majors should apply for admission to the Professional Program in Architecture. Successful applicants will have their major changed from pre-architecture to BSD-Architecture option. Pre-interior design majors should apply for admission to the department's Interior Design Program. Successful applicants will have their major changed from pre-interior design to BSD-Interior Design option.

Available teaching resources and space capacities limit enrollment to the third year of architectural and interior design studies, therefore, enrollment limits are established each semester. Required courses must be completed before advancing to the next year of study.

Minimum Entrance Requirements

To be considered for admission to the Architecture Program, applicants must:
1. Be enrolled in the College of Architecture,
2. Be in good scholastic standing, and
3. Have completed the appropriate 1st and 2nd year Pre-Architecture or Pre-Interior Design Program of study.

Third Year Admission Process

1. An application for admission may be completed by filling out the online application. The Program receives applications once a year in early February.
2. Applicants must submit a portfolio conforming to the defined criteria for the program applied for by the date posted at the completion of the spring semester.
3. Any applicant who has previously applied for admission and has not been accepted or who fails to enroll in the Professional Program in Architecture or the Interior Design Program after an acceptance must reapply in the regular manner. Students may apply for admission to the Architecture Program only three times.

Evaluation

The Student Affairs Committee of the Architecture Program will carefully evaluate the applications for admission. The committee considers three elements in their evaluation: cumulative grade point average, a weighted grade point average, and the portfolio of student work. The weighted grade point average gives additional value to the applicant's achievement in the required ARCH prefix course or transfer equivalents in the pre-professional curriculum.

Selection

Admission to the Architecture Program will be awarded to applicants who show the greatest professional potential and have demonstrated scholastic achievement. The Student Affairs Committee reserves the right to fill all available spaces in the Professional Program in Architecture or the Interior Design Program if it determines that the remaining applicants have not performed at an acceptable level.

Admission to the 2-Year Master of Architecture Program

Students from outside the program, students who have been separated from the program for more than one year, or students who have below a 3.0 GPA for the 4th year can gain admission to the 2-year MArch degree program through an application process. Applications are available in October from the department office and are reviewed once a year in February. The Graduate Record Examination is not required.

All applications for admission are subject to approval of the Student Affairs Committee. Fifth and sixth year enrollment shall be limited by the teaching resources and space capacities of the department. An enrollment quota is established prior to each admissions cycle.

Students in the Professional Program are governed by the rules, procedures and policies established in the Architecture Program. These are published in the Student Guide or by official notification by the faculty.

Minimum Entrance Requirements

To be considered for admission to the 5th and 6th year of the Professional Program in Architecture, applicants must:
1. Have a 4-year degree from an accredited architecture program,
2. Present a portfolio of design work,
3. Be in good scholastic standing, and
4. Have a B average or its equivalent in previous academic programs.

The Student Affairs Committee of the Architecture Program requires a minimum TOEFL of 550 or 213 computer based for all international student applicants whose first language is not English.

Evaluation

A portfolio of an applicant's recent design work will be evaluated by the Student Affairs Committee of the Architecture Program and is considered to be a very important part of the application review process, along with the applicant's educational profile, letters of recommendation, transcripts and application form.

Selection

The limited number of spaces available each semester will be awarded to applicants who have displayed the highest abilities in a combination of scholastic achievement, design capability, and professional potential.

The Admissions Committee reserves the right to reject applicants who, in its opinion, have not reached an acceptable level of design proficiency.
Admission to the 3-Year Master of Architecture Program

Minimum Entrance Requirements
To be considered for admission to the 3-year M.Arch program, applicants must have:
1. A four-year bachelor degree and
2. A B (3.0) cumulative grade point average in past academic programs.

The Student Affairs Committee requires a minimum TOEFL of 550 or 213 computer based for all international student applicants whose first language is not English.

Evaluation
The Student Affairs Committee evaluates the candidate’s past academic record, three letters of recommendation, a statement of educational goals and the information requested on the application form. A portfolio is not required for candidates applying for the three year masters degree program, however, providing evidence of past achievements and/or creative activity is helpful to the committee in its evaluation.

Selection
The limited number of spaces available each semester will be awarded to applicants who have displayed the highest abilities in a combination of scholastic achievement and professional potential.

Deficiencies
The Student Affairs Committee and/or the Program Chair reserve the right to require additional course work be done to correct perceived deficiencies in the candidates educational background.

Interior Design Program
Program Director: Betsy Gabb, 232 Architecture Hall
Professor: Gabb
Associate Professors: Ankerson, Cae, Hinchman
Assistant Professor: Allsma, Ellsworth-Bahe

General
This four-year, undergraduate program is for the student interested in becoming a professional interior designer. The professional interior designer is a person qualified by education, experience, and examination to 1) identify, research, and creatively explore issues related to the quality of the interior environment; 2) perform design services in interior spaces including programming, design analysis, space planning and aesthetics, using specialized knowledge of interior construction, building systems and components, building codes, equipment materials and furnishings and 3) prepare drawings and documents describing the design of interior spaces in order to enhance and protect the health, safety, and welfare of the public.

Upon successful completion of two years of pre-interior design studies and admission to the Interior Design Program, students in the Interior Design Program may enroll in the curriculum which leads to a bachelor of science in design (B.S.D.-Interior Design) degree.

Pre-Interior Design Curriculum
Completion of the Pre-Interior Design Program is required for admission to the Third Year of the Interior Design Program. The pre-interior design curriculum can be referenced through the current listing of courses available in room 222 in the College of Architecture or on the Web page.

Admission to the 2-Year Bachelor of Science in Design Program—Interior Design

Minimum Entrance Requirements
To be considered for admission to the Interior Design Program, applicants must:
1. Be enrolled in the College of Architecture,
2. Be in good scholastic standing, and
3. Have completed the first year Pre-Architecture or Pre-Interior Design Program of study.

Third Year Admission Process
1. An application for admission may be completed by filling out the online application. The program receives applications once a year in early February.
2. Applicants must submit a portfolio conforming to the defined criteria for the program applied for by the date posted at the completion of the spring semester.
3. Any applicant who has previously applied for admission and has not been accepted or who fails to enroll in the Professional Program in Architecture or the Interior Design Program after an acceptance must reapply in the regular manner. Students may apply for admission to the Interior Design Program only three times.

Evaluation
The faculty of the Interior Design Program will carefully evaluate the applications for admission. The committee considers three elements in their evaluation: cumulative grade point average, a weighted grade point average, and the portfolio of student work. The weighted grade point average gives additional value to the applicant’s academic achievement in the required Architecture or Interior Design Program.

Selection
Admission to the Interior Design Program will be awarded to applicants who show the greatest professional potential and have demonstrated scholastic achievement. The faculty reserves the right to not fill all available spaces in the Professional Program in the Interior Design Program if it determines that the remaining applicants have not performed at an acceptable level.

Minors
Students can earn a minor in landscape architecture by the completion of the following course work:

Core Requirements..................................10
ARCH 240 History of Architecture..................3
HORT 200 Landscape & Environmental Appreciation..........................3

Nonprofessional Master of Science Degree and PhD / EdD Degrees

The scholarly-nonprofessional master of science degree is a scholarly, research-based curriculum. For more information, please see the University of Nebraska-Lincoln Graduate Bulletin.

Community and Regional Planning Program
Chair: Gordon Scholz, 302 Architecture Hall
Professors: M. Utunayagam, Scholz
Associate Professor: C. Antarredo
Assistant Professor: N. Am
Professors Emeritus: Fischer, Hulverson

The Community and Regional Planning Program offers the master of community and regional planning (M.C.R.P) degree; however,
several courses in the Department are also offered at the advanced undergraduate level and are available to undergraduate students in all majors.

The master of community and regional planning degree program provides preparation for professional planning practice in the public, private, and nonprofit sectors. Planning is an interdisciplinary problem-solving profession that influences a broad range of future-oriented decision making. Planners work with individuals, groups, and organizations to formulate plans, policies, and strategies through which desired change can be achieved. Planners utilize a wide variety of methods and techniques to identify problems and needs and to formulate plans of action that effectively address those needs. Planners often need to accommodate differing viewpoints in the process of formulating desirable and compatible plan and policy recommendations.

The MCRP degree program emphasizes the understanding of the importance of and interrelationships among human resources, natural resources, socio-cultural characteristics, economic activity, political and institutional roles, and characteristics of the natural and built environment. The program provides students with a sound foundation in planning theory, methods, process, and application—a background which enables graduates to formulate, initiate, and coordinate a broad range of planning and development actions.

Master of Community and Regional Planning Curriculum

The MCRP degree program requires completion of 48 graduate credit hours, 24 of which are in a required core curriculum.

**Required Core Courses**

CR PL 400/800 Intro to Planning (3 cr)
CR PL 802 Planning Theory (3 cr)
CR PL 804 Legal Aspects of Planning (3 cr)
CR PL 810 Qualitative Techniques for Planners (3 cr)
CR PL 830 Intro to Computers in Planning (3 cr)
CR PL 840 Planning Methods & Analysis (3 cr)
CR PL 900 Professional Planning Practice (3 cr)
CR PL 990 Planning Studio (3 cr)

**Total Required Core Course Credit Hours 24**

**Elective Courses**

In addition to the required core courses in the MCRP program, students must complete at least 9 graduate credit hours in an area of concentration and an additional 15 graduate credit hours in one of the following three tracks: 1) 9 credit hours of approved electives; 2) a 6-credit-hour masters thesis; and an oral examination; 2) 9 credit hours of approved electives; 2) 6-credit-hour professional project, and an oral examination; or 3) 15 credit hours of approved electives and a comprehensive written examination.

The written comprehensive examination for track 1 is scheduled and administered by the Department typically no more than once each semester. The examination covers the student’s program of studies for the MCRP degree, as approved by the Department and the Office of Graduate Studies.

Five areas of concentration are offered by the Department: 1) physical planning; 2) social planning; 3) environmental planning; 4) economic development; and 5) transportation planning. Courses in these concentrations are offered inside and outside the Department. Other individualized areas of concentration may be proposed and pursued by students subject to approval by the Department graduate committee.

**Dual Degree Programs**

The MCRP degree may be pursued jointly with any of the following three tracks: 1) 9 credit hours of approved electives, a 6-credit-hour masters thesis, and an oral examination; 2) 9 credit hours of approved electives, a 6-credit-hour masters thesis, and the juris doctorate degree in a four-year period.

The second program is the MCRP/M Arch dual degree program, offered in conjunction with the Architecture Program. This program enables completion of both the MCRP degree and the master of architecture degree in a three-year period. This track is primarily intended for those persons who hold the bachelor of science in design (BSD) or equivalent undergraduate degree.

The third program is the MCRP/M S-C-E (Urbanism) dual degree program, offered in conjunction with the Civil Engineering Department. Persons interested in the dual degree programs should inquire with the Chairperson of the Community and Regional Planning Program.

**Interdepartmental Programs**

The Community and Regional Planning Program cooperates with other disciplines in offering courses for the designated interdepartmental areas: 1) Water Resources Planning and Management, 2) Public Policy Analysis and Program Evaluation, and 3) Environmental Studies. Persons interested in these areas in conjunction with the MCRP degree should consult with the Chairperson of the Community and Regional Planning Program.

**Admission to the Master of Community and Regional Planning Program**

Students with diverse undergraduate, graduate, and professional backgrounds are encouraged to enter the MCRP degree program. No prior course work in planning is required. However, applicants are expected to have completed at least one course each in statistics, economics, and the social sciences with a grade of C or better. The Department graduate committee may specify how the applicant is to make up deficiencies in any of these areas.

Applications for admission to the MCRP program must be submitted by M Arch 15 for fall semester admission and by N ovember 1 for spring semester admission. Applications must include the following:

1. Application for Admission to the Graduate College form, submitted to:
   O fice of Graduate Studies
   University of Nebraska-Lincoln
   301 Canfield Administration Building
   PO Box 880434
   Lincoln, NE 68588-0434
2. Two official copies of all college transcripts submitted to the Office of Graduate Studies
3. Three official report for the Graduate Record Exam General Test submitted to the Office of Graduate Studies
4. Three letters of recommendation on standard Graduate School forms submitted to:
   Community and Regional Planning Program
   University of Nebraska-Lincoln
   302 A Architecture Hall
   PO Box 880105
   Lincoln, NE 68588-0105
5. An essay responding to program application form questions submitted to the Program office.

**Courses of Instruction**

**Architecture (ARCH)**

[ES] 106, Introduction to Design (ARCH 106) (3 cr) Lec. 3. An introduction to the architectural profession. The evolution of architectural thought and the role of the architect in society. The factors that shape the built environment and the processes of production upon which they rely.

140A. Visual Literacy I: Lab, Analysis and Composition (ARTP IDES JGEN TXCD 140A) (2 cr) Lab. Prereq: ARTP: Art major or candidate for teaching endorsement in art, ARTP: Admission to the College of Architecture, JGEN: College of Journalism and Mass Communications major and 2.75 GPA, TXCD: Textiles Clothing and Design major or minor. For course description, see ARTP 140A.

140B. Visual Literacy Lab: Perceptual Drawing (ARTP IDES JGEN TXCD 140B) (2 cr) Lab. Prereq: ARTP: Art major or candidate for teaching endorsement in art, ARCH: Admission to the College of Architecture, JGEN: College of Journalism and Mass Communications major and 2.75 GPA, TXCD: Textiles Clothing and Design major or minor. For course description, see ARTP 140B.

141A. Visual Literacy Lab: Color (ARTP IDES JGEN TXCD 141A) (4 cr) Lab. Prereq: ARTP: Art major or candidate for teaching endorsement in art, ARCH: Admission to the College of Architecture, JGEN: College of Journalism and Mass Communications major and 2.75 GPA, TXCD: Textiles Clothing and Design major or minor. For course description, see ARTP 141A.

141B. Visual Literacy Lab: Speculative Drawing (ARTP IDES JGEN TXCD 141B) (2 cr) Lab. Prereq: ARTP: Art major or candidate for teaching endorsement in art, ARCH: Admission to the College of Architecture, JGEN: College of Journalism and Mass Communications major and 2.75 GPA, TXCD: Textiles Clothing and Design major or minor. For course description, see ARTP 141B.

142. Visual and Aural Literacy (ARTP IDES JOUR TXCD 142) (2 cr) Lec, quz. Prereq: JOUR: College of Journalism and Mass Communications major and 2.75 GPA, ARTP: Art major or candidate for teaching endorsement in art, ARCH: Admission to the College of Architecture, IDES: Admission to the College of Architecture, TXCD: Textiles Clothing and Design major or minor. For course description, see JOUR 142.

143. Visual Literacy: Art and Design (ARTP IDES JGEN TXCD 143) (2 cr) Lec. Prereq: ARTP: Art major or candidate for teaching endorsement in art, ARCH: Admission to the College of Architecture, IDES: Admission to the College of Architecture, TXCD: Textiles Clothing and Design major or minor. For course description, see ARTP 143.

210. Elements of Architectural Design I (ARTP IDES JGEN TXCD 210) (3 cr) Lec 1, Lab 4, Prereq ART CH 143, 140A, 140B, 141A, 141B, parallel ARCH 220. Design issues applied to the making of architectural space and form. Skills and processes to be used in the development of site plans and buildings including building forms, enclosure, proportion, materiality, and transition as determinants.

211. Elements of Architectural Design II (ARTP IDES JGEN TXCD 211) (3 cr) Lec 1, studio 6, Prereq: ARCH CH 210 and parallel ARCH 221. Analysis and creation of architectural space and form. Development of a given project statement and generation of individual intentions into architectural proposals. Human scale, human.
light, and structure as form determinants. Design parameters initially conceived in the sketch stages and then synthesized into mutually reinforcing totalities.

Introduction to techniques of orthographic projection and graphic expression. Representation of depth, movement, and structure through the use of line, tone, and transparency. Instrumentation for the forming of lines, freehand graphic, descriptive geometry, plans, elevations, and sections.

221. Graphic Communication II (IDES 221) (2 cr) Lec 3, Lab 1. Prereq: ARCH/IDES 210 and 220; parallel ARCH 211. Development of the system of architectural graphic expression. Instrument and freehand exercises in pictorial drawings, reflections, perspective, shades and/or shadows and color.

223. Computer Applications in Architectural and Interior Design (IDES 223) (3 cr) (UNL) Lec 1, lab 4. Basic principles and concepts of applications of computer technology to architectural and interior design. Develops fundamental knowledge and skills to make effective use of computer technology to aid investigation in design studio.

Survey of the development of architecture and its expression as an artifact of material culture from prehistory to the present.

Fundamentals of architectural design. Introduction to problem-solving from the design process, investigation, analysis, synthesis, development, and presentation of elementary design projects from prepared programs.

Fundamentals of ecological design. Concepts. Introduction to the problems concerned with human needs. Intermediate projects emphasize the influence of natural forces within a specific geographical context. Site analysis including topography, landscape, orientation, and climate.


Characteristics of building environments with respect to thermal and psychrometric environment in buildings related to human comfort, heat gain/heat loss, ventilation, natural energy systems and structures, building codes principles and plumbing and life safety systems in the Built environment.


[IS][ES] 340/540. Architectural History and Theory I (3 cr) Lec 3. Prereq: For undergraduate: Admission to the BSD program or permission. Prereq: ARCH 223 or permission. For student in the professional program: Admission to the Professional Program in Architecture or permission.
Selected aspects of the history and theory of fifteenth- through eighteenth-century architecture emphasizing the architect as a creative personality.

Survey of the architecture of the African continent, from prehistoric times to the present day. Buildings-famous and typical- and theories, and approaches that are appropriate to the specific environment.

350. The Design Process (3 cr) Lec 1, Lab 4. Prereq: Admission to the BSD program and parallel ARCH 310. Lectural/lab that emphasizes the central role of the relationship between architectural ideas and the human participant in the design process. Methods of designing, programming and evaluating are presented in the context of an overall design process. Explores the role of the architect, the client, the users, and the designer into the design process.

360. Site Context Issues (3 cr) Lec 1, Lab 4. Prereq: ARCH 310, 350, or permission. Parallel: ARCH 311 or permission.
Investigation of the interrelationship among the physical context as created by nature and humanity, the various design professions concerned with site development and architectural ideas and processes in a building site project done in conjunction with the linked studio, along with practical exercises form the basis of the lab experience.

379. Selected Topics in Architecture (1-6 cr) Prereq: Permission.
Group investigation of a topic in architecture originated by the instructor.


Fundamentals of architectural design. Continuation of problems concerned with human needs. Intermediate projects that emphasize technological considerations as form determinants. Structure, material, equipment, and construction.


417/418/517/518/817. Product Design (IDES 417) (3 cr) Prereq: junior standing or permission. Practical investigation in the use of materials and their fabrication process with emphasis on form and function. Generate a design from conception to a finished product.

418/518/818. Fabrication and Construction Team I (1-6 cr) Lec 6, Lab. Prereq: Permission.
The shifting relationship between conceiving and making through practical, collaborative experience with actual design-construction projects, role a play in all aspects of design, research and construction of the commission.

420/520/820. Architectural Screen Printing (3 cr) Lec 1. Lab 1. Prereq: Admission to the BSD program: ARCH 220 and 221. Practical introduction to the fundamentals of screen printing. Students introduce to the process and techniques of basic screen printing as applied to architectural exercises. Instruction will be given in the use of inks, solvents, and photo-stencil techniques as part of the screen printing process.

423. Computer Applications in Environmental Development (1-6 cr) Prereq: Admission to the BSD program: ARCH 223. Survey and application of new methods of dealing with computer technology and graphic equipment, requirements for building lighting, fundamentals of sound and hearing, room acoustics, noise control, and basic design methods for both architectural lighting and acoustics.

424/524/824. Advanced Architectural Drawing (2 cr) Studio. Prereq: Undergraduate: Admission to the BSD program or permission. For student in the professional program: Admission to the Professional Program in Architecture or permission.
Advanced work in architectural drawing. Discourse about various drawing problems encountered in design process and practice.

425/525/825. Production Drawings (3 cr) Lec, lab. Introduction of production drawings for a small building. Plans, elevations, sections and details developed through a process of exploration and research.

435/535/835. Advanced Lighting Design (3 cr) Lec 1, Lab 4. Prereq: ARCH 333 or IDES 335 or permission. Translation of physical measurements of sensory stimuli into architectural-spatial relationships with respect to artificial and natural illumination; advanced lighting theories and techniques through lecture, discussion, simulation, and direct application to spatial design development.

Advanced acoustic design. Translation of physical measurement of sensory stimuli into architectural-spatial relationships with respect to internally and externally generated sound.

438. Interior Construction (3 cr) Lec 1, Lab 5. Prereq: Admission to the BSD or Interior Design Program. Development of a set of construction documents for a small residential or commercial space. Set includes demolition plans, reflected ceiling plans, power and communication plans, finishes plans, elevations, sections, details and schedules.

443/543/843. Architectural History and Theory II (3 cr) Lec 3. Prereq: Admission to the BSD Program or permission.
Selected aspects of the history and theory of nineteenth- and early twentieth-century architecture emphasizing the psychological perception of urban structure.

448/548/848. Architecture of the Great Plains (3 cr) Lec 3. Prereq: Admission into Third Year or permission. Selected aspects of the history of architecture on the Great Plains with emphasis on the social, behavioral, and cultural factors that shaped the way the Dakota built during the nineteenth and twentieth centuries.

450/550/850. Survey of Asian Architecture (3 cr) Lec 3. Prereq: Senior or graduate standing. Comparative survey of the architectural history of Asian cultures with emphasis on pre-eighteenth century India, China, and Japan.

Survey of theory, methods, research, and findings from the social, behavioral, and managerial sciences as they relate to architectural design, interior design and regional and community planning. Application of principles to the development of architectural and interiors programs and designs to the planning process.

457/557/857. Housing Issues in Contemporary Society (2 cr) Prereq: Admission in Third year or permission. Survey of social, psychological, and economic factors that influence housing and current trends in today's global economy. Focuses on how the impact of the design of the interior and architectural as well as the community and regional planning scale.

Survey of theory, methods, research, and findings from the social, behavioral, and managerial sciences as they relate to the design of work environments. Factors effecting change in the contemporary workplace.

461. Understanding Architectural Ideas (3 cr) Lec 3. Prereq: ARCH 413, 420. Parallel ARCH 411. Capstone course for the adjacent sequence, focusing on analytical understanding of architectural ideas as reflected by exemplary buildings and the students own studio projects.

463/563/863. Architectural Preservation (3 cr) Lec 1. Prereq: Sophomore standing or permission.
Investigation of the principles, processes, and practice of architectural preservation and the conservation of historic districts.

464. Urban Structure I (2 cr) Lec 2. Prereq: ARCH 310. Introduction to the theory and mechanisms of urban planning and design directed at the resolution of selected urban problems by the expansion of dynamic urban decay, socialization, and the psychological perception of urban structure.

466/566/866. Community Design Center (3-6 cr) Prereq: Permission.
Community-oriented design studio. The design process and its relationship to the environmental development process.

For course description, see H O R T 467.

159. Senior Landscape Design (H O R T 469) (4 cr) Studio 8. Prereq: H O R T 341 or permission.

For course description, see H O R T 469.

159. Senior Landscape Design (H O R T 480) Selective studies of contemporary problems in design and practice. Intensive study of particular historical and contemporary contributions by women to the design professions related to the built environment. Evaluation of design work by and about women seen in their aesthetic and intellectual context. Examinations of the roles and values of women in design and their impact on the assumptions and issues currently held by the profession.


Advanced color theories and their application to the Built environment.

499. Senior Inspection Trip (L C) Prereq: Senior standing. Pay as you go. Group trip inspection to places of professional interest.


499. Seminar in Architecture (1-6 cr, max 24) Prereq: Permission. Group investigation of a topic in architecture originated by the student.


530. Advanced Elements of Building Construction (3 cr) Prereq: Admission to the fifth year or permission. Construction of the community of the future. Envisioning the future, the nature of the community, community development and planning, strategic planning, traditional theory and practice, paradigms and dilemmas, sustainable development, neo-traditional town planning, the new urbanism, and sustainable design. Multi-media presentations. Exploration, description, and explanation of the emergent imperatives affecting our homes and towns. Critical thinking about global issues in cities of local, economic, and socio-cultural contexts.

530. Introduction to Planning (3 cr) Lec. Field of community and regional planning introduced and studied in relation to the history of cities, urbanization, and regionalization. Origins and evolution of American urban and regional planning practice. The planning process as a response to social, political and physical, and economic factors is analyzed. Introduces the community comprehensive planning process, plan implementation, and functional areas of planning.

535. Housing, Renewal, and Development (3 cr) Lec 3. Prereq or parallel: CR P L 400/800. Comprehensive analysis of public policies and programs for housing, urban renewal and large-scale development and a consideration of their social, political, and environmental implications at the neighborhood, community, and regional scales. Formulation of housing and renewal policy and programs as a part of the community and regional planning process and related regulation and stimulation efforts, and to the design, construction, and marketing processes as they are carried out or are affected by public housing policies and the private sector. The methodology, processes, results, problems, and changing nature of the federal urban renewal process considered in detail.

530. The Community and the Future (3 cr) Lec. Envisioning the future, the nature of the community, community development and planning, strategic planning, traditional theory and practice, paradigms and dilemmas, sustainable development, neo-traditional town planning, the new urbanism, and sustainable design. Multi-media presentations. Exploration, description, and explanation of the emergent imperatives affecting our homes and towns. Critical thinking about global issues in cities of local, economic, and socio-cultural contexts.

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Interior Design (IDES)

140A. Visual Literacy I Lab: Analyzing or Composition (ARCH, ART, JGEN, TXCD 140A) (2 cr) Lab. Prereq: ART/P: Art major or candidate for teaching endorsement in art. ARCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. JGEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing and Design major or minor.
For course description, see ART P 140A.

140B. Visual Literacy Lab: Perceptual Drawing (ARCH, ART, JGEN, TXCD 140B) (2 cr) Lab. Prereq: ART/P: Art major or candidate for teaching endorsement in art. ARCH: Admission to the College of Architecture. JGEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing and Design major or minor.
For course description, see ART P 140B.

140A. Visual Literacy Lab: Color (ARCH, ART, JGEN, TXCD 141A) (4 cr) Lab. Prereq: ART/P: Art major or candidate for teaching endorsement in art. ARCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. JGEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing and Design major or minor.
For course description, see ART P 141A.

141B. Visual Literacy Lab: Speculative Drawing (ARCH, ART, JGEN, TXCD 141B) (2 cr) Lab. Prereq: ART/P: Art major or candidate for teaching endorsement in art. ARCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. JGEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing and Design major or minor.
For course description, see JOUR 142.

141A. Visual Literacy and Art Design (ARCH, ART, JGEN, TXCD 143) (2 cr) Lab. Prereq: ART/P: Art major or candidate for teaching endorsement in art. ARCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. JGEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing and Design major or minor.
For course description, see ARCH 143.

For course description, see ARCH 210.

211. Elements of Architectural Design II (ARCH 211) (UNL, UNO) (3 cr) Lec 1, studio 2. Prereq: ARCH/HIES 143, 140A, 140B, 141A, 141B; parallel: ARCH 220. For course description, see ARCH 211.

For course description, see ARCH 220.

211. Communication II (ARCH 221) (2 cr) Lec 3, lab 1. Prereq: ARCH/CHES 210 and 220; parallel ARCH 211.
For course description, see ARCH 221.

223. Computer Applications in Architectural and Interior Design (ARCH 223) (UNL, UNO) (3 cr) (UNL) Lec 1, lab 4.
For course description, see ARCH 223.

250. Interior Design Graphics (4 cr) (UNL, UNO) Lec 1. Prereq: IDES 150, ARCH 230, or permission. Basic graphic presentation techniques for interior delineation, including one-point and two-point perspective drawing, black and white color rendering, and computer-aided drafting.

260. Lighting Design for Interiors (3 cr) (UNL III) Prereq: IDES 250. Survey of technical and aesthetic considerations in development of lighting designs for residential and commercial interior applications.


334. Building Environmental Technical Systems II (ARCH 334) (3 cr) (UNL) Lec 3. Prereq: Admission to the third year architecture or Interior Design Program. For course description, see ARCH 334.

335. Lighting Design (3 cr) Prereq: Acceptance into the third year architecture or Interior Design Program, or permission. Lighting in residential and commercial use as it affects color, psychology, and use of space. Application, specification and evaluation of various systems.

(ES) 340. Historic Interiors I (3 cr) (UNL) Lec 3. Prereq: Junior standing or permission. History and development of European interiors and furnishings from the ancient world through the French and English styles of the early nineteenth century.

350. Interior Design Studio 1 (5 cr) (UNL) Studio 12. Prereq: Acceptance into the Interior Design Program by facility. Parallel: IDES 300. Emphasis on the design process in the development of problem solving skills related to interior design and the process environment, such as interior space planning, programming, and generation of design concept and design alternatives.


417. Product Design (ARCH 417/617) (3 cr) Prereq: Junior standing or permission. For course description, see ARCH 417/617.

423. Interior Construction Documents (3 cr) Prereq: Admission to the professional program in interior design or permission. Basic set of construction documents for a residential or commercial space. Includes demolition, partition, and reflected ceiling plans, power and communication plans, finish and furnishings plans, interior elevations, sections, details and schedules. Expression of design intent as construction documents is reinforced in lecture, studio experience, and site visits.

(ES)(IS) 445/845. History of Furniture (3 cr) (UNL) Lec 3. Prereq: Admission to the professional program in interior design or architecture. History and development of interiors and furnishings from prehistoric times to the present day, emphasizing the eighteenth, nineteenth, and twentieth centuries. Interiors and furnishings focused on the West yet considered within a global context.

450. Interior Design Studio 3 (3 cr) (UNL) Studio 12. Prereq: IDES 318 and 351. Advanced application of the design process with emphasis on complex residential and commercial problems, including systems design, and individual professional objectives.

453. Interior Design Studio 145 (3 cr) (UNL) Studio 12. Prereq: IDES 450, prior or concurrent work experience in interior design or related field. Design of multipurpose interior (contract and residential) spaces with complete drawings and specifications and team projects.

For course description, see ARCH 456/556/856.

For course description, see ARCH 458/558/858.


(ES) 481. Women in Design (ARCH 481/581/881) (3 cr) Prereq: Admission to the BSD program or permission.
For course description, see ARCH 481/581/881.

482. Advanced Color Theory (ARCH 482/582/882) (3 cr) (UNL) Lec 3. Prereq: Admission to the third year in architecture or Interior Design Program, or permission. For course description, see ARCH 482/582/882.

483. Domestics and Power in the Colonial World (3 cr) (UNL) Lec 3. Prereq: Permission. Re-examines the relationship between architecture, politics, and ethical values by looking at colonial architecture as a world-wide phenomenon. The colonial domestic sphere is viewed as a counterpart to the public arena.


*512. Sociopsychological Aspects of Interiors (3 cr) Lec 3. Prereq: 9 hrs social sciences and 9 hrs interior design of permission.

Landscape Architecture

(ES)(IS) 500. Landscape and Environmental Appreciation (HORT, GEOG 200) (3 cr) Lec 2, rct 1. For course description, see HORT 200.

212. Landscape Plants I (HORT, NRES 212) (3 cr) Lec 2, rct 1. Prereq: HORT 130. R equires Saturday off-campus field trips.
For course description, see HORT 212.

213. Landscape Plants II (HORT, NRES 213) (3 cr) Lec 2, lab 2. Prereq: HORT/LARC/NRES 212, HORT/LARC/NRES 213 is a continuation of HORT/LARC/NRES 212, HORT/LARC/NRES 213 is a continuation of HORT/LARC/NRES 212.
For course description, see HORT 213.

(ES) 266. Introduction to Landscape Design (HORT 266) (4 cr III) Lec 1, lab 6. Prereq: HORT/LARC/NRES 212 or equivalent; HORT/GEO/LARC 200; HORT/LARC/NRES 212, HORT/LARC/NRES 213.
For course description, see HORT 266.

For course description, see HORT 467.

498. 598. Topics in Landscape Architecture (HORT 498/898) (1-6 cr I) Lec 1. Prereq: Senior standing and permission.
For course description, see HORT 498/898.
College of Arts and Sciences

Richard J. Hoffmann, Ph.D., Dean and Professor of Biological Sciences
Jessica Coope, Ph.D., Associate Dean and Associate Professor of History
Amy Goodburn, Ph.D., Associate Dean and Associate Professor of English
Edward G. Schmidt, Ph.D., Associate Dean and Professor of Physics and Astronomy

About the College

For additional information or questions, contact the Director of Advising:
Anne T. Kopera
107 Oldfather Hall
PO Box 880330
Lincoln, NE 68588-0330
402/472-4190

Mission and Goals

The College's mission is:
- To educate undergraduate students of the College of Arts and Sciences to a high level of competence in their major fields through instruction that integrates formal course work with experience in research and creative activity.
- To advance knowledge through research and creative activity that are national and international in stature.
- To provide all undergraduate students with a range of knowledge and a broad intellectual experience that can form the basis for critical and imaginative thinking, thereby enabling them to become tolerant and responsible members of a global society.

Committee Structure

Executive. Dean Hoffmann, chair; Professors Belasco, Forsythe, Moore, Rowe, Shores, Associate Dean Schmidt

Academic Distinction and Awards. Dean's Office Liaison; Professors Blaha, Cahan, J. Carr, Garbin, Woodward

Assessment. Professors T. Carr, Gallagher, Grig, Humes, Krome, Lindley-Griffin, Thoess-Morse, van Roojen, Woodward; Dean's Office Liaison; SAB representative

Curriculum. Professor Marley, chair; Professors Nickel, Pardy, Spinner-Halev; Dean's Office Liaison; SAB representatives

Faculty Instructional Development. Professors Hames, Hibbing, Skoug, Takacs, L. White; GSA representative; Dean's Office Liaison; SAB representative

Grading Appeals. Professors S. Burnett, Hitchcock, M. Parker; GSA representative; SAB representatives; Dean's Office Liaison

Affiliated Academic Centers, Programs and Facilities

Atomic, Molecular, Optical, and Plasma Physics Laboratory

The Department of Physics and Astronomy in the College of Arts and Sciences maintains a state-of-the-art laboratory for the study of atomic, molecular, optical, and plasma (AMOP) physics. The centerpiece of these facilities is the DIOCES laser, recently installed in Behlen...
Laboratory. This laser has the highest combined power and repetition rate of any university laser system in the world; its peak power rating exceeds that of the best Sch picker lasers. This apparatus will be used to study extremes of plasma density and temperature, and will have numerous optical and medical applications. Other laboratories in the group house facilities for studying collisions between electrons and atoms or molecules with ultracold atoms with high-power lasers, and general laser systems for the studies of the foundations of quantum mechanics.

**Behlen Observatory**

The Department of Physics and Astronomy in the College of Arts and Sciences operates Behlen Observatory, located 30 miles north of Lincoln. It is a modern astronomical research facility with a computer-controlled 0.76 meter telescope equipped with a solid state electronic camera. It is used for astronomical research by University faculty and students. Visit the Web site at astro.unl.edu/observatory/.

**Bureau of Sociological Research**

The Bureau of Sociological Research in the Department of Sociology in the College of Arts and Sciences works with students and faculty, state government agencies, state legislators, voluntary groups and other organizations to provide quality research services for the advancement of knowledge. It has conducted studies on local, state, regional, and national levels using telephone, mail, and personal interviewing techniques. Examples of such studies include an annual phone survey of University of Nebraska-Lincoln students regarding health behaviors and issues facing student athletes; a survey of N ebraskans, and a mail survey of school administrators and teachers regarding multicultural education programs, among others. The services offered by the Bureau range from advice on research project design to evaluation of data already collected, including survey construction, data entry, coding, and analysis. Further information can be found at www.unl.edu/bosr/.

**Cedar Point Biological Station**

Cedar Point Biological Station (CPBS) is a field station of the School of Biological Sciences in the College of Arts and Sciences on Lake O'gallala in western Nebraska. Located two miles from Lake M C Conaugh, the station's largest body of water, the Station is situated in close proximity to a variety of aquatic and terrestrial habitats, including riparian forests, wet meadows, and prairies. CPBS is situated at the junction of four major grassland types including the Sandhills (one of the largest areas of relatively undisturbed prairie vegetation in the United States), Arapaho Prairie and Cresent Lake/W idlife Refuge are nearby and available for University teaching and research use. Also, the Valentine Fort N iobrara National Wildlife Refuge is 100 miles north of the Station. CPBS offers students the opportunity to enroll in summer courses emphasizing field biology or to work as research assistants on various research projects. Further information can be found at www.unl.edu/cesper/.

**Center for Biotechnology**

The Center for Biotechnology, funded in part through the N ebraska Research Initiative, coordinated University of Nebraska's resources to build on recent advances in biotechnology spurred by the sequencing of plant, animal and human genomes, as well as bioinformatics, high through-put proteomics and functional genomics. Its purpose is to bring together the expertise of these advances to the solution of biological problems related to agriculture, health, food, and the environment. The Center acts as a catalyst for interdepartmental research initiatives, combining faculty from the College of Arts and Sciences and the Institute of Agriculture and Natural Resources. The primary focus of Faculty Associates of the Center is on cell and molecular biology, genetics, and microbiology. An essential mission of the Center is to provide the faculty and business communities with state-of-the-art complex technologies, such as bioinformatics, proteomics, flow cytometry, confocal microscopy, and DNA sequencing, through its Core Research Facilities. Further information can be found at www.biotech.unl.edu.

**Center for Environmental Toxicology**

The University of Nebraska Biological Center for Environmental Toxicology involves faculty from several departments at UNL, UNO and UNMC. Toxicology is the field of science that is concerned with determining what types of substances are harmful to living systems. This involves work by people in many specialties, including biology, chemistry, and medicine, among others. The Center for Environmental Toxicology provides research and training for students to help determine what types of environmental agents are harmful, to study how these substances produce adverse effects in the body, to create new methods for measuring these compounds, and to estimate the risks that these agents pose to humans, plants and animals.

**Center for Great Plains Studies**

The Center for Great Plains Studies is an interdisciplinary program for all University of Nebraska campuses and is located at 1155 Q Street in the College of Arts and Sciences. The University of Nebraska Board of Regents chartered the Center in 1976 to foster the study of people and the environment in the sparsely populated Great Plains region. It remains the oldest interdisciplinary regional research and teaching center in the United States. The Center provides graduate students with a major or a minor in Great Plains Studies and graduate students with a specialization in Great Plains Studies at both the masters and doctoral levels. The Center integrates campus and community thought by its association with fifteen participating departments at UNL. The Center's various activities include publishing journals Great Plains Quarterly and Great Plains Research, publishing the undergraduate journal Plains Song Revisited, publishing Journals of the Lewis and Clark Expedition and Encyclopedia of Great Plains Studies. Further information can be found at www.plains.unl.edu.

**Center for Science, Mathematics and Computer Education**

The Center for Science, Mathematics and Computer Education is a collaborative effort of the College of Arts and Sciences, the College of Education and Human Sciences and the Institute of Agriculture and Natural Resources. The Center's mission is to build partnerships among higher education, K 12 education, and the extended public to improve the teaching and learning of math, science and technology K-12. The Center provides an infrastructure that promotes coordination and extends the capacity of faculty to develop educational outreach activities, seek external funding, and improve undergraduate education. Further information can be found at www.unl.edu/scimath/.

**Center on Children, Families, and the Law**

As an interdisciplinary organization, the Center on Children, Families, and the Law works to stimulate interdisciplinary and intercollegiate scholarship on children, families, and the law. It draws faculty from not only the College of Law and the Department of Psychology (College of Arts and Sciences) but also from the departments of sociology, educational psychology, and child, youth and family studies. Further information can be found at ccfl.unl.edu.

**Harris Center for Judaic Studies**

The Norman and Bernice Harris Center for Judaic Studies was established by the Board of Regents in July, 1993. Drawn from numerous departments, the faculty in this interdisciplinary center teach and do research in all areas of Judaic Studies. The Center offers an undergraduate minor in Judaic Studies. The Center's goal is to educate undergraduates, N ebraskans, and the wider Great Plains community about the nature and history of Jewish culture and peoples. Jewish contributions to other traditions and effects of anti-Semitism and other forms of prejudice. Further information can be found at www.unl.edu/judaic/.

**Human Rights and Human Diversity Initiative**

Human Rights and Human Diversity Initiative offers an undergraduate minor as well as a graduate specialization and certificate in an affiliated department (Anthropology and Geography, English, History, Modern Languages and Literatures, Philosophy, Political Science). The program includes human rights in an international perspective. A leading theme is the relationship between cultural diversity and human rights. Further information can be found at www.unl.edu/humanR/index.html.

**Institute for Ethnic Studies**

Offers interdisciplinary and intercollegiate degrees through the Institute for Ethnic Studies through the College of Arts and Sciences and coordinates ethnic studies on campus. The "Ethnic Studies" refers to the investigation, exploration, and involvement with those facts and areas that bear on the lives and experiences, both past and present, of the ethnically and/or racially distinct groups in our society known as Mexican-Americans (C hicanos), Hispanics or Latinos, Native Americans (American Indians), and Black Americans (African Americans). The Institute offers a major and/or minor in both Ethnic Studies and Latin American Studies and minors in African American Studies, Chicano Studies, and Native American Studies.

Further information can be found at www.unl.edu/unilies/.
J.D. Edwards Honors Program in Computer Science and Management

A residential undergraduate honors program to develop leaders for the information technology-based workforce. The innovative curriculum reflects a balanced integration of computer science and management education, along with the professional skills necessary to be successful in today's information-driven economy. The culture of the program will inspire students to pursue excellence in all endeavors and achieve success with hard work. Students will be leaders in the classroom and on campus.

The educational program has two major components: a core curriculum and a Design Studio. The core curriculum blends several major topic areas into a cohesive, project-oriented, four-year educational experience. In Design Studio, student-led teams partner with a corporate or public sector client to develop software solutions to specific business or operations opportunities. In total, the J.D. Edwards Honors Program will allow its graduates to:

- Create innovative technical products for business
- Manage technical development
- Use technology to lead business
- Understand technology market opportunities, and
- Implement technological strategies.

Students interested in learning more about the J D Edwards Honors Program are encouraged to contact David Rosenbaum, Associate Director for Academic Affairs, 472-6000, or jdedwards@unl.edu.

Law/Psychology

The Law/Psychology program in the Department of Psychology offers interdisciplinary training in psychology and the law. Initiated in 1974, it is the oldest ongoing program of its kind in the world. It specializes in training students and professionals to apply theory and research from psychology and other social sciences to the analysis of empirical questions in law and policy. Faculty from the Department of Psychology and the Law School collaborate to provide instruction at the graduate and undergraduate levels. Faculty conduct research on a variety of topics related to mental health law and forensic psychology, ethics, jury and witness behavior, and scientific evidence. Graduate students pursue a combination of degrees in law (J D, M S) and psychology (M A, PhD). Students may specialize in diverse areas of psychosocial studies. Further information can be found at psyweb.unl.edu/psylaw/.

Mathematical Association of America

American Mathematics Competitions (AMC)

This office is the headquarters for the MAA American Mathematics Competitions, serving as the administrative office for the five contests associated with the competitions the American Mathematics Contest 8 (AMC 8), the American Mathematics Contest 10 (AMC 10), the American Mathematics Contest 12 (AMC 12), the American Invitational Mathematics Examination (AIME), and the U S A Mathematical Olympiad (USAMO).

The AMC office produces all of the exams and supplies associated with the five contests and handles their distribution. Once the contests have been given, the AMC also scores the contests and summarizes results. The AMC publishes the results, providing schools with a valuable resource for assessing their mathematics programs. Further information can be found at www.unl.edu/amc/.

Nebraska Center for Mass Spectrometry

The Nebraska Center for Mass Spectrometry, located in the Department of Chemistry in the College of Arts and Sciences at the University of Nebraska, provides support for undergraduate students to gain research experience in bioanalytical chemistry. The primary purpose of this laboratory is to provide researchers within the Center to access high performance instrumentation and knowledgeable staff in mass spectrometry. These services are often used to perform a variety of Rohit's including proteins, lipids, and nucleic acids, support research in many different departments at the University and U S A. The University of Nebraska is the only university in the U S A to provide a mass spectrometry service in this region.

Further information can be found at www.unl.edu/oldroot/MassSpec/.

Nebraska Center for Materials and Nanoscience

The Center for Materials and Nanoscience (CMRA) was founded in 1988 by action of the Board of Regents. The major role of CMRA is to be the center of excellence in research and education in the areas of materials science and nanotechnology, including materials physics, materials chemistry, and materials engineering. The Center is a multidisciplinary organization with more than sixty faculty members in seven departments in the Colleges of Arts and Sciences and Engineering and Technology. CMRA research thrusts include nanoscale electronic, magnetic, and optical materials and devices, mechanics and processing of materials, materials chemistry, and biomolecular materials. The Center provides an excellent materials research infrastructure through the operation of a central facilities such as the Electron Microscopy Laboratory, Preparation, Crystallography, etc., operation of a weekly seminar series, and collaborative research materials analysis and technology transfers. Further information can be found at www.unl.edu/cmra/.

Nebraska Center for Virology

The Nebraska Center for Virology is an interdisciplinary center for the study of virology. The Center is comprised of faculty from several departments in the Colleges of Arts and Sciences and Engineering and Technology. The Center is dedicated to the development of a new generation of virologists and to the advancement of virology research. The Center is also an active participant in the MAA American Mathematics Competitions. Further information can be found at www.unl.edu/virologycenter/.

Plant Science Initiative

The goal of the UNL Plant Science Initiative, founded in 1997, is to establish an interactive, critical mass of outstanding researchers and students that study the biology of plant growth. The program is coordinated by the George W. Beadle Center for Genetics and Bioremediation Research and includes faculty from several academic units in the College of Arts and Sciences and the Institute of Agriculture and Natural Resources. In addition to supporting "cutting edge" plant research, the program awards outstanding undergraduate, graduate and post-doctoral students and supports an annual plant science symposium and plant-related seminars. Further information can be found at www.unl.edu/psycweb.unl.edu/.

Prairie Schooner

A literary quarterly in its 78th year of continuous publication, Prairie Schooner publishes poetry, fiction, essays, interviews, and book reviews by established and beginning writers. It has won numerous awards throughout its history and has been represented in many anthologies. Stories, Pushcart Prize, and other anthologies. It is an important poetry and fiction market for writers whose work will reach a national and international audience. Its office is located at 201 Andrews Hall on the University of Nebraska-Lincoln campus. Further information can be found at www.unl.edu/schoo ner/psmain/.

Psychological Consultation Center

The Psychological Consultation Center (PCC) is a mental health clinic operated by the Clinical Psychology Training Program in the College of Arts and Sciences. The PCC provides outpatient psychotherapy and assessment services for children, adolescents, adults, couples, and families. The PCC is staffed by licensed clinical psychologists and doctoral students supervised by licensed clinical psychologists. The PCC provides services for gay, lesbian, bisexual, and transgendered and other persons from a variety of cultural backgrounds. The PCC is open to anyone in Lincoln and surrounding areas. Fees for services at the PCC are affordable and are based on the clients ability to pay. The PCC is located at 325 Burnet Hall on the University of Nebraska-Lincoln campus. Further information can be found at http://psycweb.unl.edu/psy/page/dynamic.asp?dir=dept&page=pcc.htm.

Survey Research and Methodology

The Survey Research and Methodology program offers interdisciplinary training in survey research and data analysis. Initiated in 1997, it is already nationally recognized. The two-year, non-thesis program trains students to become research professionals. A wide variety of fields, including international social sciences, marketing, statistics, and social, public administration, and education. The program is based on an interdisciplinary curriculum that builds knowledge of the principles of survey methodology and develops skills in applying these principles to problems in survey research. In addition to a set of core courses, students choose a minor area of specialization to maxim
mize their skills for particular work environments. Students also participate in faculty research and gain practical experience through a summer internship or a research setting, for example, commercial survey and market firms, media groups, governmental agencies, academic research establishments or nonprofit associations. Under the supervision of an on-site supervisor, they design and conduct a survey research project for a client from start to finish. Further information can be found at sam.unl.edu/.

Water Center

The University of Nebraska-Lincoln Water Center and its programs is a statewide priority program focusing on surface and groundwater quality research, largely related to agrichemical nonpoint source contamination, and best management practices designed to reduce their impact on the state's water sources and supplies. The Water Center is closely affiliated with the University of Nebraska-Lincoln School of Natural Resources and provides resources and promotes coordination of research by faculty in more than eleven departments in the College of Arts and Sciences. Engineering and Technology, and the Institute of Agriculture and Natural Resources. Further information can be found on the Web at watercenter.unl.edu/.

College Scholarships

The Dean's Office of the College of Arts and Sciences, in conjunction with the College Committee on Academic Distinction and Awards for Students chooses recipients for College scholarships and also recommends students for certain scholarships awarded by the Office of Scholarships and Financial Aid and by external agencies. Students interested in applying for one of these awards may obtain information in the Dean's Office, 1223 Oldfather Hall, or the Arts and Sciences Advising Center, 107 Oldfather Hall. All students must be enrolled and attending full-time at the time of the application. Any of the college scholarships require demonstrated need. If you wish to be considered for any of these scholarships, it is necessary that you also complete the following on-line applications:

A. Free Application for Federal Student Aid (FAFSA) by going to www.fafsa.ed.gov
B. The Upper Class Scholarship Application with the Office of Scholarships and Financial Aid by going to:
   - www.unl.edu/scholarship.covers.html
   - Choose Upper Class Scholarship application

Scholarships Awarded by the College

Arts and Sciences Scholarship. Awarded to a student with demonstrated financial need.

Larry Doerr Scholarship Fund for Arts and Sciences. Awarded to an undergraduate enrolled in the College of Arts and Sciences, preference given to students studying in the areas of Humanities, College of Arts and Sciences (defined to include classics, communication studies, English, history, modern languages and philosophy).

Herbert Thomas and Lillian David Folsom Memorial Scholarship. Awarded to a full-time undergraduate student enrolled in the pre-medicine program in the College of Arts and Sciences at the University of Nebraska-Lincoln with a cumulative grade point average of 3.0 or better.

Carl Oscar and Hilde Johnson Scholarship. Awarded to a junior or senior majoring in language or social sciences.

Dorothy Kinyoun Scholarship. Awarded to a full-time student.

Kiffin Scholarship. Awarded to a sophomore or above, graduate of a Nebraska high school, in the upper 20% of class with demonstrated financial need.

Robert L. McCall Arts and Sciences Scholarship. Awarded to an undergraduate in Arts and Sciences graduate of a Nebraska high school; financial need; for those individuals who have experienced disadvantages, including but not limited to under-represented racial minority students.

Charles D. and Betty J. McKinsey Scholarship. Awarded to an undergraduate enrolled in the College of Arts and Sciences, graduate of a Nebraska high school; with demonstrated financial need.

Martina McMenamin Memorial Scholarship. Awarded to a sophomore or above, graduate of a Nebraska high school with first priority to graduates of Daniel J. Gross High School with a GPA of 3.0 or better and demonstrated financial need.

Henry and Dorothy Riekes Scholarship. Awarded to a sophomore or above, currently enrolled in one course which applies to the minor in Judaic Studies.

Shuler-Mills Scholarship. Awarded to a junior or senior in the College of Arts and Sciences with demonstrated academic progress, financial need; and a graduate of a Nebraska high school.

Annis Chaiken Sorenson Award. Awarded to a junior majoring in the humanities.

Grace and Mabel Souther Scholarship. Awarded to a student with a major in the College of Arts and Sciences.

Eunice Stout Scholarship. Awarded to a sophomore or above, enrolled in the College of Arts and Sciences, GPA of 3.0 or better, and a graduate of a Nebraska high school.

Max John and Pauline H. Stuermer Scholarship. Awarded to a full-time female undergraduate student enrolled in the pre-medicine program in the College of Arts and Sciences at the University of Nebraska-Lincoln with a major in the humanities as defined by the Dean, College of Arts and Sciences.

Charles and Linda Wilson Humanities in Medicine Scholarship. Awarded to a full-time undergraduate enrolled in both the pre-medicine program and the humanities in medicine program in the College of Arts and Sciences, with a declared major in a humanities field as defined by the Dean, College of Arts and Sciences. Preference will be given to students demonstrating financial need.

Departmental Scholarships

There are numerous awards and scholarships earmarked for specific majors, all of which are administered individually by the Departments in the College of Arts and Sciences. To find out which scholarships you might be eligible for and the procedures for applying, please contact the appropriate department for information.

University Scholarships

The Office of Scholarships and Financial Aid administers numerous funds. Consideration for these scholarships is based on submission of the Upper Class Scholarship Application. This is an on-line application that can be found at www.unl.edu/scholarship.

Other Scholarships

Edythe Wiebers International Studies Program Scholarship. Awarded to an undergraduate and/ or graduate to subsidize expenses for one academic year associated with a foreign study program. To be eligible, a student must read, write, and speak a foreign language at a level that allows full pursuit of the proposed course of study or research abroad, have a cumulative GPA of at least 3.0, have completed at least 42 hours toward the undergraduate degree, and have worked to provide at least 10% of the cost of his/her college education. Special application forms can be obtained from college offices across campus and from the International Affairs Office.

Barry Goldwater Scholarship. The University may nominate up to four students, sophomores or juniors majoring in engineering, mathematics, or the natural sciences, to the Barry Goldwater Foundation. Contact Dr. Patrice Berger in the University Honors Program for more information and application materials.

Fullbright-Hays Fellowships

These fellowships are awarded annually and selections are made by various national committees from the applications submitted. Graduating seniors interested in applying should contact:

- Institute for International Studies
- University of Nebraska

PO Box 880221
Lincoln, NE 68508-0221

Campus deadline for submitting applications is October 1.

NOTE. Students who wish to pursue graduate work should inquire in the Office of Graduate Studies, 301 Caffield Administration Building, concerning scholarships, fellowships, and assistantships open to graduating seniors.

Academic Advising

All students in the College of Arts and Sciences are assigned to an academic adviser to help them plan their academic careers and select appropriate courses. Incoming freshmen are
counseled during New Student Enrollment by specially trained advisers from the Arts and Sciences Advising Center.

For complete and current information on chief advisers for majors, minors, and pre-professional areas, contact the Arts and Sciences Advising Center, 107 Oldfather Hall, 472-4190.

Honors and Awards

Honors Program

The College of Arts and Sciences encourages qualified students to participate in the University Honors Program. In addition, several departments of the College of Arts and Sciences offer special honors sections of regular freshman courses to meet the needs of students with superior preparation in those subjects. In some departments such students may then progress more rapidly into advanced courses.

Dean's List

The College recognizes students for academic achievement during the fall and spring semesters by placement on the College Dean's List. To qualify for the Dean's List, in the College of Arts and Sciences, students must complete 12 credit hours of course work (courses must be started and completed in one semester) by the census date of the grade reports and attain a minimum semester grade point average of 3.7. The following do not qualify as part of the 12 credit hours: Pass No Pass credit, transfer hours, credit hours of a student's record: the GPA, the number of courses taken Pass/No Pass, number of courses

Degrees with Distinction

In recognition of outstanding academic excellence, the College recommends the baccalaureate degree with Distinction. The recommendations are made by the Committee on Academic Distinction and Awards for Students to be recommended for distinction. Candidates must fulfill the specific criteria for highest distinction, high distinction, or distinction, as described below in addition to all of the general criteria and procedures applicable to all distinction classifications.

Highest Distinction. Candidates for the baccalaureate degree may be recommended for "Highest Distinction" on the basis of the following criteria: outstanding scholastic standing (within the top five percent of the graduating classes in the preceding 12-month period) and the highest recommendation based upon a thesis or comparable creative effort and a comprehensive examination.

High Distinction. Candidates for the bachelors degree may be recommended for "High Distinction" by fulfilling one of two sets of criteria: 1) by achieving scholastic standing (within the top five percent of the graduating classes in the preceding 12-month period), or 2) by achieving an average of 3.5 and by receiving a recommendation for distinction based on a thesis or comparable creative effort and a comprehensive examination.

Distinction. Candidates for the bachelors degree may be recommended for "Distinction" by achieving one of two sets of criteria: 1) by achieving scholastic standing (within the top ten percent of the graduating classes in the preceding 12-month period), or 2) by achieving high scholastic standing of at least a cumulative grade point average of 3.5 and by receiving a recommendation for distinction based on a thesis or comparable creative effort and a comprehensive examination.

The following criteria apply to all categories: outstanding scholastic standing (within the top 10 percent of the graduating classes in the preceding 12-month period) and by receiving a recommendation for distinction based on a thesis or comparable creative effort and a comprehensive examination.

The deadline for suggested departmental distinction group to submit a student's materials to the Dean's office for consideration for distinction is six weeks prior to the Monday following commencement, except for the August commencement in which case the deadline is four weeks prior to the Friday before commencement. These materials must include a copy of the student's thesis, the student's thesis title, and a comprehensive examination form. The forms for making these evaluations are available in 107 Oldfather Hall. Students are urged to contact the department in which they are writing a thesis for department deadlines.

A degree with Distinction is an award which is recommended by the Committee on Academic Distinction and Awards for Students to be recommended for distinction. Candidates for the bachelors degree with Distinction must fulfill the specific criteria for highest distinction, high distinction, or distinction, as described above in addition to all of the general criteria and procedures applicable to all distinction classifications.

Honors and Awards/College of Arts and Sciences

Student Organizations

Student Advisory Board

The Board shall advocate undergraduate educational quality in the College of Arts and Sciences.

The Board shall seek to provide increased opportunities for formal and informal contact for all students with the college faculty and shall represent the educational interests of undergraduate students, especially those in the College. Authority to represent the student's interest shall include the appointment of students to faculty committees and Board chairperson.

The Board shall maintain a liaison of communication with students in order to gain student opinions and concerns and to inform students of current College issues. Students may contact the Board through its mailbox in the Arts and Sciences Advising Center, 107 Oldfather Hall.

Departmental Organizations

The departments of the College sponsor honorary societies and clubs for majors and minors giving them the opportunity to develop their leadership skills and to interact on a social and professional level with students and faculty who share their interests. Students should contact departments for information on these activities.

Careers

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International Opportunities

The College supports the following international interdisciplinary programs offering a major or a minor: African American and African Studies, Asian Studies, European Studies, International Studies, and Latino and Latin American Studies. Departments and faculty in the College of Arts and Sciences are also actively involved as sponsors, teachers and leaders in many of the numerous Study Abroad programs administered by the Office of International Affairs. The College encourages students to study overseas as part of their University experience. The University participates in exchange and several formal study abroad programs worldwide and N ebraska Semester Abroad, International Affairs (see “International Affairs” on page 24) and arranges for individuals to earn University credit for study at foreign universities. The International Affairs Office has study abroad, overseas opportunities, and flights and study tours programs that assist students wishing to participate in overseas studies.

Admission to the College of Arts and Sciences

The entrance requirements for the College of Arts and Sciences are the same as the University General Admissions Requirements (see “Admission to the University” on page 6). Students who are admitted through the Admission by Review process with core course deficiencies will have certain conditions attached to their enrollment at the University. These conditions are explained under “Review Process with Core Course Deficiencies” on page 6 of this bulletin.

In addition to these requirements, the College of Arts and Sciences strongly recommends a third and fourth year of languages. Four years of high school language will exempt students from the College of Arts and Sciences’ 16-hour language requirement. It will also allow students to continue language study at a more advanced level, and give more opportunity to study abroad.

Removing Deficiencies

You must remove entrance deficiencies before you can graduate from the College of Arts and Sciences. For students entering August 1997 or later and who graduated from high school January 1997 and after, courses taken to remove a high school core course deficiency may not be counted toward either the major, minor, college degree requirements, or University comprehensive education requirements. They may only be counted in the “electives” category in meeting degree requirements. The most common deficiencies are in foreign languages and mathematics.

For University policy, see “Graduation Requirements” on page 16.

Removing Foreign Language Deficiencies

A student who has had fewer than two years of one foreign language in high school will need 130 semester hours as a minimum for a degree from the College of Arts and Sciences. A student will also need to complete the “102” course in a language to clear the deficiency and the “202” course to complete the college graduation requirement in language.

Removing Mathematics Deficiencies

1. A deficiency of one year of geometry can be removed by taking two high school geometry courses by Independent Study or by completing MATH 85C and 86C at the University. Neither of these options count for college credit.

2. A deficiency of the first year of algebra can be removed by taking two high school Algebra I courses through Extended Education (not for college credit).

3. A deficiency of the second year of algebra can be removed by taking MATH 95C (not for college credit) or MATH 100A (may be taken for college credit but does not apply toward graduation).

4. A student whose deficiency is the additional (fourth) year of mathematics that builds on algebra must successfully complete MATH 101, 102, or 103, or an equivalent course at another institution.

Removing Other Deficiencies

Contact the Arts and Sciences Advising Center for specific courses to remove other entrance deficiencies.

NOTE: The entrance requirements are different for certain preprofessional programs in the College of Arts and Sciences see “Pre-Professional Programs and Combined Degree Programs” on page 209.

Transfer Students

To be considered for admission a transfer student, Nebraska resident or nonresident, must have an accumulated average of C (2.0 on a 4.0 scale) and a minimum C average in the last semester of attendance at another college. Transfer students who graduated from high school January 1997 and after must also meet the University General Admissions Requirements. Transfer students who graduated before January 1997 must have completed in high school 3 years of English, 2 years of the same foreign language, 2 years of algebra, and 1 year of geometry. Transfer students who have completed less than 12 credit hours of college study must submit either the ACT or SAT scores.

Ordinarily, hours earned at an accredited college are accepted by the University. The College, however, will evaluate all hours submitted on an application for transfer and reserves the right to accept or reject any of them. Sixty-9x is the maximum number of hours the University will accept on transfer from a two-year college. Transfer credit in the major must be approved by the major adviser on a Request for Substitution Form to meet specific course requirements, group requirements, or course level requirements in the major. At least 9 hours in the major field must be completed at the University regardless of the number of hours transferred.

The College of Arts and Sciences will accept no more than 15 semester hours of C- and D grades from other schools. The C- and D grades cannot be applied toward requirements for a major or minor. This policy does not apply to the transfer of grades from UNO or UNK to the University of Nebraska.

Transfer Credit from Foreign Institutions

Credit for courses taken at foreign universities and colleges will be transferred only after validation by the appropriate department. This evaluation may include examination of the student over subject matter studied at the foreign institution.

Normally credit is not given for pre-university work. In some instances, it may be possible to receive credit through satisfactory examination, such as Advanced Placement.

Readmitted Students

Students readmitted to the College of Arts and Sciences will follow the requirements stated in the bulletin published in the first year enrolled at the University. Students who graduated from high school January 1997 and after will be evaluated by the University Admissions Office. This evaluation may include examination of the student over subject matter studied at the foreign institution.

College Academic Policies

Classification of Students

Freshman Program

The first-year program is designed to give students a broad basis for future study. It includes English composition, a foreign language, and courses in science, the humanities, social sciences or mathematics for a total of about 12-15 hours per semester. During the first year, the student will progress toward meeting the general education requirements and will have an opportunity to explore various areas of study while starting or deciding upon a major. With the help of New Student Enrollment and their academic advisers, students choose specific courses according to their needs and interests.

Class Standing

Sophomore Standing. For admission to sophomore standing a student must have completed all of the College entrance requirements, earned a minimum of 27 semester hours of credit, and attained a total grade point average of at least C.

Junior Standing. A student has junior standing after meeting the requirements for sophomore standing and completing 53 semester hours of credit.
Senior Standing. A student has senior standing after meeting the requirements for junior standing and completing 89 semester hours of credit.

Pass/No Pass Privilege

University regulations for the Pass/No Pass (P/N) privilege state:

The Pass/No Pass option is designed for your use by seeking to expand your intellectual horizons by taking courses in areas where you may have had minimal preparation.

1. Neither the P nor the N grade contribute to your GPA.
2. P is interpreted to mean C or above.
3. A change to or from a Pass/No Pass may be made until mid-term (1/2 of the course).
4. The Pass/No Pass or grade registration cannot conflict with the professor’s department’s college, or University policy governing the grading option.
5. Changing to or from Pass/No Pass requires using the N Roll system to change the grading option or filing a Drop/Add form with the Registration Office, Service Center, 17A, C. A. Administration Building. After mid-term of the course, a student registered for Pass/No Pass cannot change to a grade registration unless the Pass/No Pass registration is in conflict with a professor’s department’s college, or University policy governing Pass/No Pass. The Pass/No Pass grading option is not available to students on academic probation unless the course is offered only on a Pass/No Pass basis.
6. For undergraduates, the University maximum of 24 Pass credit hours and/or courses and department limits will apply. These limits do not include courses offered on a Pass/No Pass basis only. Consult your adviser or the department section of this Bulletin for restrictions on the number of Pass hours you can apply toward your degree.
7. The Pass/No Pass grading option cannot be used for the removal of C- or D or F grades.

Pass/No Pass privileges in the College of Arts and Sciences are extended to students according to the following additional regulations:

1. Pass/No Pass hours can count toward fulfillment of general (both ES and IS courses) education requirements up to the 24-hour maximum.
2. Each department may grant up to 6 hours credit taken on a Pass/No Pass basis in the major, and up to 6 hours of Pass/No Pass in the Plan A minor or each of two Plan B minors.
3. Freshmen and sophomores may enroll for no more than 6 hours of Pass/No Pass work per semester.
4. Departments may specify that certain courses of theirs can be taken on a Pass/No Pass basis.
5. The College will permit no more than a total of 24 semester hours of P/N grades to be applied toward degree requirements. This total includes all Pass grades earned at UNL and other U.S. schools.

NOTE: This is more restrictive than the above University regulation (#6).

Individual departments vary in their policies regarding Pass/No Pass as applied to the major and minor. Consult the individual departmental listings for these policies. Students who wish to apply P/N hours to their major and minor(s) must obtain approval on a form that is available in the Arts and Sciences Advising Center, 107 O’Idfather Hall.

Credit by Examination

Through study or experience that parallels a University of Nebraska-Lincoln course, a regularly enrolled University student may feel prepared to pass an examination on the course content of a specific course for credit in that course. To apply for credit, a student should:

1. Consult with the department chair.
2. Obtain a Credit by Examination Form at the Records Office, 107 Canfield Administration Building.
3. Secure the approval signature from the department chair, instructor, and the dean of the student’s college. The Dean’s signature can be obtained in the Arts and Sciences Advising Center, 107 O’Idfather.
4. Secure the bursar’s receipt for payment of the appropriate fee per course for credit by examination. Currently, the fee is one-half the resident tuition rate.
5. Present the completed form to the instructor designated by the department chair. The instructor will give the examination and report the results on the credit by Examination Form to the Records Office, 107 Canfield Administration Building, 472-3636.

Examination for credit through UNL departments may be taken only by currently enrolled students. A student is not permitted to receive credit by examination in a course in which a prerequisite for a course already taken unless the course and its prerequisites cover essentially different subject material.

The College of Arts and Sciences also gives credit for the subject and general examinations of the College Level Examination Program (CLEP) and the Advanced Placement (AP) Program administered by the College Entrance Examination Board. See the Arts and Sciences Advising Center, 107 O’Idfather Hall, for current policies regarding CLEP and AP examinations.

Grading Appeals

A student who feels that he/she has been unfairly graded must ordinarily take the following sequential steps in a timely manner, usually by initiating the appeal in the semester following the awarding of the grade:

1. Talk with the instructor concerned. Most problems are resolved at this point.
2. Talk to the instructor’s department chairperson.
3. Take the case to the Grading Appeal Committee of the department concerned. The Committee should be contacted through the department chairperson.
4. Take the case to the College Grading Appeals Committee by contacting the Associate Dean, Peter Bleed, 1223 O’Idfather Hall.

Seniors in the University who have obtained a minimum of 125 (or 130) semester hours as a minimum for the awarding of the grade:

1. Consult with the department chair.
2. Obtain a Credit by Examination Form at the Records Office, 107 Canfield Administration Building.
3. Secure a grade change from the department chair, instructor, and the dean of the student’s college. The Dean’s signature can be obtained in the Arts and Sciences Advising Center, 107 O’Idfather.
4. Secure the bursar’s receipt for payment of the appropriate fee per course for credit by examination. Currently, the fee is one-half the resident tuition rate.
5. Present the completed form to the instructor designated by the department chair. The instructor will give the examination and report the results on the credit by Examination Form to the Records Office, 107 Canfield Administration Building, 472-3636.

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2. Talk to the instructor’s department chairperson.
3. Take the case to the Grading Appeal Committee of the department concerned. The Committee should be contacted through the department chairperson.
4. Take the case to the College Grading Appeals Committee by contacting the Associate Dean, Peter Bleed, 1223 O’Idfather Hall.

College Graduation Requirements

Which Bulletin to Follow

Students who enroll at UNL under the academic year (Fall, Spring, Summer) of the bulletin must fulfill the requirements stated in the bulletin or in any other bulletin which is published while they are enrolled in the College provided the bulletin they follow is no more than ten years old at the time of graduation. A student must, however, meet the requirements from one bulletin only rather than choosing a portion from one bulletin and the remainder from another.

Senior Check

After earning 85 credit hours, a student should apply for a “senior check” in the Office of Registration and Records, 107 Canfield Administration Building. This check will inform students about the requirements that still need to be fulfilled in their chosen degree program.

Credit Hours and Grade Point Average

A minimum of 125 semester hours of credit is required for graduation from the College of Arts and Sciences. Students who enter the College with fewer than two units of one foreign language from high school are required to take 130 semester hours as a minimum for the bachelor of arts or bachelor of science degree. A total grade point average of at least 2.0 is required.

Courses Numbered above 299

There are many opportunities to earn college credit through the University of Nebraska-Lincoln Extended Education. Majors in the College of Arts and Sciences may apply a maximum of 30 hours of UNL Independent Study courses and summer reading courses toward the total number of hours required for the degree.

NOTE: N course offered through Independent Study or summer reading, those with an "X" designation, may be applied to the Integrative Studies requirement.

For further information, contact:

Extended Education
University of Nebraska-Lincoln
900 N 21st Street
Lincoln, NE 68583-8307
(402) 472-4500
be completed in residence at U N L. NOTE: ALEC 397E and ALEC 397K do not count toward this 30 hours.

Course Exclusions

No credit for graduation is allowed for non-college level courses or for courses that deal primarily with the development of skills including the following:

- driver training education
- study skills
- industrial arts (including courses concerned primarily with manual skills, tools, machines, or industrial processes and design) For example at U N L: E AC 101, 102, 103, 104, 109, 201, 203, 204, 205, 206, 229, 242, 243, 300, 301, 340, 346.
- agricultural education (credit is allowed for ALEC 102, 202, 337, 494, 496; ALEC courses on the Arts and Sciences Essential Studies list, on the University Integrative Studies list, or ALEC courses cross-listed with departments from which Arts and Sciences applies credit for graduation. The College does not accept transfer courses equivalent to J GEN 200.)
- Any introduction computer course training in D O S, word processing, spread-sheets, data base management, or other business software packages (C S C E 137 or B S A D 150 or A G R I 271).
- M A T H 100A

Course Restrictions

Students majoring in the College of Arts and Sciences may use courses in the following areas toward their degree within the following limits:

- M aximum 12 hours religion courses that advocate the doctrine or belief of a particular faith. This 12 hour limit does not apply to religious studies courses whose method and approach conforms to the standards of critical scholarship in the academic study of the humanities and social sciences.
- M aximum 30 hours by correspondence and summer reading courses. (Note: No courses offered through correspondence or summer reading, those with an "X" designation, may be applied to the Integrative Studies requirement.)
- M aximum 15 hours of C - and D grades are transferable from colleges outside U N L. The C - and D grades cannot apply to majors or minors. All C - and D grades from U N O or U N K may be transferred but they are not applicable to a major or minor.
- M aximum 66 hours accepted from a college community college.
- M aximum 30 hours of clinical courses.
- M aximum 16 hours of applied music lessons and/or music ensemble.
- M aximum 4 hours Activity PE, Athletic Practice, or Basic Military Science with a maximum of 1 credit hour per semester.
- M aximum 12 hours total from any combination of the following areas: Athletic Coaching (except A T H C 279) First Aid (N U T R 170 at U N L) Orientation. For example at U N L: ALEC 397E and 397K (neither course is applicable to the courses numbered above 299 requirement); B I O C 101; B I O S 150, 160; E D P S 150; H R F S 183; N R E S 101, N U T R 150; P S Y C 100, 150; T E A C 210; B V M S 101; M I l i t a r y Sciences. (T his restriction does not apply to cross-listed courses between military science, naval science, or aerospace studies and departments of the College of Arts & Sciences.)
- Any restrictions noted specifically by departments. Credit towards the degree may be earned in only one course, including honors sections, from each group of courses listed below:
  - B I O S 312 or A G R O 360
  - B I O S 315 or 314
  - C H E M 105, 119, 111, 113, 195
  - C H E M 116 or 221
  - C H E M 251 and more than 1 cr of C H E M 263
  - C H E M 471 or 481
  - C S C E 252D or C S C E 150
  - C S C E 252D or E N G M 112
  - C S C E 252D or E N G M 121
  - C S C E 340 or 480
  - E C O N 210 or 211 and 212
  - E C O N 215, E D P S 459 or S T A T 218 (was S T A T 180)
  - F R I N 201 and 202, or F R I N 210
  - G E O G 103 or 105
  - G E O L 100 or 101 or 101H
  - G E O L 103 or 105
  - G E R M 201 and 202, or G E R M 210
  - G E T 104 or 106
  - G E T 200 or 300
  - G E T 201 or 301
  - G E T 340 or E N G M 480
  - P H Y S 141 or 151
  - P H Y S 151 or M S Y M 109
  - S O C I 206 or C R I M 251
  - S O C I 209 or C R I M 355
  - S O C I 311 or 311P
  - S O C I 474 or C R I M 413
  - S P A N 201 and 202, or S P A N 210
- For transfer students, course exclusions and restrictions will be determined on the Evaluation of Transfer credits.

General Education Requirements, Majors, and Minors

In addition to the above requirements, students must complete general education requirements for a degree, the requirements for a major, and the requirements for a minor or minors if required by the major.

Restrictions on C - and D Grades

The College will accept no more than 15 semester hours of C - and D grades from other schools except for U N O and U N K. No transfer C - and D grades can be applied toward requirements in a major or a minor. No U N L C - and D grades can be applied toward requirements in a major. U N L C - and D grades can be applied toward requirements in a minor.

Residency Requirement and Correspondence Courses

Students must complete at least 30 of the 125 (or 130) total hours for their degree at U N L. Students must complete at least 1/2 of their major course work including 6 hours above 299 in their major, and 15 of the 30 hours required above 299 in residence. Credit earned during study abroad may be used toward the residency requirement if students register through U N L and participate in prior-approved study abroad programs (see "Study Abroad and Exchange Programs" on page 21). Correspondence and summer reading courses do not count toward residence. However, 30 semester hours earned through correspondence courses and summer reading courses at U N L may be applied toward a degree from the College.

Special Requests and Waivers

Special requests concerning degree programs, including inquiries about exceptions to degree requirements, waivers, and substitutions should be made to the Arts and Sciences Advising Center, 107 O ldfather H all.

Application for a Degree

Each student who expects to receive a diploma must file an application for candidacy for the diploma in the Office of Registration and Records, 107 C anfield Administration Building. Announcements about deadline dates are posted on bulletin boards and printed in the D aily N ebaskan.

Students are responsible for informing the Office of Registration and Records of their graduation plans, including their addresses; the manner in which they are completing their requirements such as by correspondence, by clearance of incompletes, by enrollment at another institution, by taking special examinations, etc.; and of any later revision of such plans. Failure to follow this procedure may cause postponement of graduation until a later semester.

Degree Programs and Areas of Study

Degrees in the College of Arts and Sciences

The College of Arts and Sciences offers curricula leading to the degrees of bachelor of arts and bachelor of science.

Two Degrees from Arts and Sciences

A graduate who holds the bachelor of arts degree may earn the bachelor of science degree by completing an additional year of work in residence taking at least 30 more semester hours of course work for a minimum of 155 hours. The student must complete all degree requirements for the second degree, including the scientific base. A graduate who holds the bachelor of science degree may earn the bachelor of arts degree by completing another year of work in residence taking at least 30 semester hours of additional course work for a minimum of 155 hours. The student must complete all degree requirements for the second degree.

Two Degrees from UNL

A graduate who holds a bachelor's degree from another college at U N L may earn the bachelor of science or bachelor of arts degree from the College of Arts and Sciences by completing an additional year of work in residence taking at least 30 more semester hours of...
course work beyond the first degree. The student must complete all degree requirements for the arts and sciences degree.

Intercollege Studies
A student in the College of Arts and Sciences pursuing a bachelor of arts degree with a major in arts and sciences may also complete a bache-
lor of arts major in the College of Fine and Performing Arts. In addition, a student in the College of Fine and Performing Arts may also complete a bachelor of arts major in the College of Arts and Sciences.

The student must complete all degree requirements and a major in the home college and a second bachelor of arts major in the visiting college.

Transfer Students with a Non-UNL Degree
A transfer student who has received a bache-
or's degree from another institution must com-
plete at least 30 hours of credit in residence at UNL in addition to transfer credit. Students must complete at least half of their major course work including 6 hours above 299 in their major, and 15 of the 30 hours required above 299 in residence. The student must complete all degree requirements for the arts and sciences degree.

Nature and Objectives of General Education

The faculty of the College of Arts and Sciences has adopted the following statements on the nature and objectives of General Education. These statements provide the rationale for the requirements that follow.

1. General Education requirements

are designed to further the purposes of general liberal education by encouraging study in several disciplines and providing some common undergraduate experience for all students. A liberal education, including the general education requirements, major requirements and electives, should:

a. equip students with modes of thought and methods of inquiry that will help them gain access to unfamiliar bodies of knowledge;

b. enable students to integrate knowledge from different disciplines and areas;

c. encourage students to consider the ethical and moral implications of knowledge they acquire;

d. help students discover, develop, and appreciate their own creative potential;

e. help students understand and appreciate their own cultural heritage;

f. cultivate in students a pluralistic outlook by helping them acquire a knowledge of national and ethnic cultures other than their own;

g. promote an appreciation of the nature, importance, and role of research in the creation of new and the reappraisal of old knowledge;

h. foster new interests, develop intellectual curiosity, and stimulate a love of learning; and

i. encourage students to engage in critical self-examination as well as thoughtful and active participation in society.

2. In seeking to accomplish the above, students should develop the following intellectual abilities:

a. to reason critically,

b. to analyze objectively,

c. to think creatively,

d. to perceive assumptions,

e. to make judgments on the basis of thoughtfully considered values,

f. to construct arguments and use evidence,

g. to write and speak effectively, and

h. to listen and observe perceptively.

3. Students should also obtain a breadth of view and depth of perspective through studies in the following fundamental areas of knowledge:

a. the aesthetic and intellectual experience of literature and the arts,

b. the development and diversity of human culture throughout history,

c. the behavior of human beings and the workings of their social, economic, and political institutions and
d. the nature of the physical and biological world.

General Education Requirements

The general education requirements for students in the College of Arts and Sciences consists of four components:

- Information Discovery and Retrieval,
- Essential Studies,
- Integrative Studies, and
- Co-curricular Experience.

For general information on these components, see “Comprehensive Education Program” on page 16. The College requirements are identical to the UNL Comprehensive Education Program requirements for Information Discovery and Retrieval, Integrative Studies, and Co-curricular Experience. For Essential Studies, the College requirements are somewhat more stringent than the UNL requirements in addition, they differ slightly for the BA and BS degrees. See below.

Cross-listed Course Policy

The College of Arts and Sciences recognizes cross-listed courses as equivalent for the purposes of degree requirements. Therefore, a course taken under one department which is cross-listed can be used in all the majors and minors affected by all the cross-listings of the course. NOTE: A course, regardless of cross-listing, may be used only once to meet an Essential Studies requirement. See the Essential Studies requirements for the exception for Area H.

Requirements for the Bachelor of Arts Degree

Students who wish to graduate with a bachelor of arts degree must complete the College graduation requirements, the UNL Comprehensive Education requirements for Information Discovery and Retrieval and Integrative Studies, the Essential Studies requirements for the BA degree, the requirements for a major, and the requirements for a minor or minors if required by the major.

Essential Studies Requirements for the Bachelor of Arts Degree

A. Communication (6 hrs)

B. Mathematics and Statistics (3 hrs)

C. Human Behavior, Culture and Social Organization (9 hrs)

D. Science and Technology (10 hrs)

E. Historical Studies (6 hrs)

F. Humanities (3 hrs)

G. Arts (3 hrs)

H. Ethnicity and Gender (3 hrs)

Individually chosen areas of study may be used toward the BA degree provided the area is not already counted toward the requirement for another degree. The student must have a major in the College of Arts and Sciences.

Students who choose the Bachelor of Arts Degree should consult with their advisor to ensure that their course selections meet the requirements for their degree.

Transfer students who have received a bachelor of arts degree from another institution must complete at least 30 hours of credit in residence at UNL in addition to transfer credit. Students must complete at least half of their major coursework including 6 hours above 299 in their major, and 15 of the 30 hours required above 299 in residence. The student must complete all degree requirements for the arts and sciences degree.

Any student who achieves a specified scaled score in the College Level Examination Program (CLEP) subject exam in French, German, and Spanish, level 1, and 2, will be exempt from the languages requirement and will also receive credit for the fourth semester course in the language. A student who has completed three years of one foreign language in high school may fulfill the language requirement by taking a fourth-semester-level course. A student who has completed the fourth-year level of one foreign language in high school is exempt from the language requirement.

Any student who chooses the Bachelor of Arts Degree should consult with their advisor to ensure that their course selections meet the requirements for their degree.

NOTE: Students not fulfilling the entrance requirement in languages (two units or the same language in high school) will need 130 hours for graduation, instead of 125 hours for graduation.

NOTE:
- Interim language courses for credit in the country of the language are also periodically available.
- A student who has completed three years of one foreign language study in high school may fulfill the language requirement by taking a fourth-semester-level course.
- A student who has completed the fourth-year level of one foreign language in high school is exempt from the language requirement.
- Any student who achieves a specified scaled score in the College Level Examination Program (CLEP) subject exam in French, German, and Spanish, level 1, and 2, will be exempt from the languages requirement and will also receive credit for the fourth semester course in the language.
- A transfer student with 11 or 12 semester hours of accepted credit has two choices: 1) to complete 6 hours in the same language at the 200 level; or 2) with permission of the chair of the department to enroll in a fourth semester course.
• A student from a foreign country who has demonstrated acceptable proficiency in his or her native language (other than English) is exempted from the language requirement without credit toward the degree. American students who present acceptable evidence that their second language is English are exempted from the language requirement without credit toward the degree, provided written documentation is submitted to the Arts and Sciences Advising Center, 107 Oldfather, for this exemption.

ES Area I Languages Exemption Policy

UNL will exempt or waive students who are graduates of UNL or who are graduates of any college with approval of the area chair of the Modern Languages department or her designate. Students must have two years of the same foreign language in high school.

English as a Second Language Document

Students whose native language is not English must show English as a Second Language study on their high school transcript. Two or more years of ESL at the high school level will be the basis for a waiver of two years of the same foreign language admission requirement.

Proficiency Examination at UNL

Students with a bachelor's degree from an approved Distance Education program must have the course work approved before he/she takes/completes the course as equivalent to 102 by the Vice Chair of the Modern Languages department or her designate. The student then completes the course and has the Distance Ed program send the transcript to the Admissions Office. The student then completes the course and has the Distance Ed program send the transcript to the Admissions Office.

4A. For the College of Arts and Sciences Area I Languages, the student can seek out a Distance Ed program and complete the equivalent of the 202-level course. The student must submit the request on the College Request for Substitution form and have the course work approved by the Vice Chair of the Department of Modern Languages and the Director of Advising. The student then completes the course and has the Distance Ed program send the transcript to the Admissions Office.

5. Third Language Option

UNL will offer options 3 and 4 if a student demonstrates knowledge of a second language at the 102 level, the College of Arts and Sciences may consider waiving two semesters of the four semester Area I Languages requirement. If this waiver was granted, the student would then be required to complete 101 and 102 in another (3rd language) at UNL.

Requirements for the Bachelor of Science Degree

The bachelor of science degree is characterized by a strong prescriptive major, an essential scientific base, and the inclusion of a general liberal education as an important aspect of the degree.

The Major

The major must include between 50-70 credit hours including required collateral courses in other departments. For students who wish to acquire two majors in two departments, the departments will be asked to make some accommodation for the students.

Scientific Base

In addition to the general education requirements, a student must complete 60 semester hours in mathematics and natural sciences, including at least one course from Area B and one from Area D and including at least 1 credit hour of laboratory work in Area D of the science and technology requirement of the BA degree, either as part of a course or separately. Any mathematics or statistics course listed in the bachelor of arts Area B or a mathematics or statistics course numbered 106 or above (except 200 and 201) count toward this base. Physical geography and the following geography techniques courses also apply: GEOG 317, 412, 414, 415, 417, 418, 419, 420, 422 and 425. Other courses that may be applied toward the 60 hour total include courses in actuarial science for which calculus or above is a prerequisite and up to 12 hours of scientific and technical courses offered by other colleges with approval of the academic advisor.
College of Arts and Sciences Approved Essential Studies Courses

The courses listed as fulfilling Essential Studies (ES) requirements have been reviewed by the faculty and have been selected because they contribute substantially to the objectives of a general liberal education. The courses are intended to take into account the background and needs of nonmajors; to be broad in perspective, rather than narrow and technical; to attempt to show the relationship of the subject matter to other areas of knowledge. Courses taken to meet college ES requirements must be selected from the lists that follow. The College continues to review and approve ES courses. Therefore, students may use the College ES list in the Bulletin which they are following or the College lists in any later Bulletin. Essential Studies courses that also meet Integrative Studies requirements are listed in bold.

Even though a course may appear on more than one Essential Studies list, a student may use a course in only ONE Essential Studies area. The ONLY exception is Area H: Ethnicity and Gender. Any course completed for Area H: Ethnicity and Gender may also count toward one other Essential Studies requirement, provided the course is on that list also, and provided that more than one course is completed in that area, for the BA or provided that one course is completed beyond the minimum required in that area for the BS.

Students in the College of Arts and Sciences must complete the communication requirement by the first semester of their junior year (65 credit hours must be completed). Transfer students and others who have not met the requirement and have 65 or more credit hours must choose ENGL 254 or 354 to complete this requirement. (In unusual cases, exceptions to this rule may be granted by the Chief Adviser, English Department.) In addition to the courses above, the College encourages students to take elective courses which will further enhance their oral communication. See your adviser to determine which course or courses may be best for you. The following courses are recommended: COMM 109, 209, 212, or 311.

B. Mathematics and Statistics

NOTE: Any course in the Department of Mathematics and Statistics for which MATH 208 is a prerequisite may be substituted for MATH 208 as meeting the ES requirement.

The mathematics and statistics requirement is intended to impart knowledge of essential mathematical concepts and of the nature of mathematical reasoning and language or, when appropriate, of methods of statistical analysis.

CSCE 235. Intro to Discrete Structures (3 cr)
MATH 104. Calculus for managerial & Social Sciences (3 cr)
MATH 206. Analytic Geometry & Calculus I (5 cr)
MATH 106B. Calculus I for Biology and Medicine (5 cr)
MATH 107. Analytic Geometry & Calculus II (5 cr)
MATH 107H. Honors Calculus II (5 cr)
MATH 108H. Honors Accelerated Calculus I (5 cr)
MATH 109H. Honors Calculus II (5-7 cr)
MATH 189H. University Honors Seminar (3 cr)
MATH 203. Contemporary Mathematics (3 cr)
MATH 206. Analytic Geometry & Calculus III (4 cr)
MATH 208H. Honors Analytic Geometry & Calculus III (4 cr)
MATH 221. Differential Equations (3 cr)
MATH 221H. Honors Differential Equations (3 cr)
MATH 238. Mathematical Methods for Biology & Medicine (5 cr)
MATH 394. Topics in Contemporary Mathematics (3 cr)

C. Human Behavior, Culture and Social Organization

The human behavior, culture and social organization requirement is intended to impart knowledge of individual and group behavior, the nature and origins of culture, the structure and governance of societies, the characteristics of economic practices and systems, and the interplay of human activity and the natural environment.

AECN 141. Intro to the Economics of Agriculture (3 cr)
AECN 276. Rural Sociology (SO CI 241) (3 cr)
AECN 346. World Food Economics (3 cr)
AECN 376. Rural Community Economics (3 cr)
AGRI 382. Intro to Global Agriculture & Natural Resources Issues (3 cr)
ANTH 107. Individual & Society (3 cr)

** BS candidates must complete a total of 21 hours in Areas C, E, F, and G.
*** BA candidates must complete 6 additional hours in Areas F and G.
JUDS 340. Women in the Biblical World (RELG 340) (3 cr)
JUDS 350. Literature of Judaism (3 cr)
LAMS 331. Latin American Civilization (SPAN 331) (3 cr)
M O D L 177. The Holocaust in Literature & Film (JUDS 177) (3 cr)
M O D L 232. The Jewish Idea in Modern Literature (EN GL 232) (3 cr)
MUNM 280. World Music (MUSC 280) (3 cr)
MUNM 370H. Honors: Women Making Music (MUSIC 370H) (3 cr)
MUSC 280. World Music (MUNM 280) (3 cr)
MUSC 370H. Honors: Women Making Music (MUSIC 370H) (3 cr)
NUTR 253. Cultural Aspects of Food & Nutrition (3 cr)
PHIL 218. Philosophy of Feminism (WMNS 218) (3 cr)
POL S 171. Intro to East Asian Civilization (HIST 181) (3 cr)
POL S 238. Blacks & the American Political System (ETHN 238) (3 cr)
POL S 272. Non-Western Politics (3 cr)
POL S 274. Developmental Politics in East Asia (3 cr)
POL S 277. Latin America Politics (3 cr)
POL S 281. Challenges to the State (WMNS 281) (3 cr)
POLS 338. Women & Politics (3 cr)
PSY C 310. Psychology of Immigration (ETHN 310) (3 cr)
PSY C 421. Psychology of Gender (3 cr)
RELG 181. Judaism, Christianity & Islam (3 cr)
RELG 182. Alpha Learning Community Freshman Seminar (3 cr)
RELG 183. Alpha Learning Community Freshman Seminar (3 cr)
RELG 209. Judaism & Christianity in Conflict & Coexistence (JUDS 209) (3 cr)
RELG 217. Israels. The Holy Land (HIST/JUDS 217) (3 cr)
RELG 219. Intro to Jewish History (HIST/JUDS 219) (3 cr)
RELG 332. Jews in the Middle Ages (HIST/JUDS 332) (3 cr)
RELG 334. Jews, Christians & the Bible (JUDS 334) (3 cr)
RELG 340. Women in the Biblical World (JUDS 340) (3 cr)
SOCI 182. Alpha Learning Community Freshman Seminar (3 cr)
SOCI 183. Alpha Learning Community Freshman Seminar (3 cr)
SOCI 189H. University Honors Seminar (3 cr)
SOCI 200. Women in Contemporary Society (3 cr)
SOCI 217. Nationality & Race Relations (ETHN 217) (3 cr)
SOCI 218. Chicanos in American Society (ETHN 218) (3 cr)
SOCI 448. Family Diversity (ETHN 448) (3 cr)
SOCI 460. Education & Society (3 cr)
SPAN 264. Spanish American Literature in Translation I (1-24 cr)
SPAN 265. Spanish American Literature in Translation II (1-24 cr)
SPAN 331. Latin American Civilization (LAMS 331) (3 cr)
TEAC 330. Multicultural Education (ETHN 330) (3 cr)
WMNS 101. Intro to Women's Studies (3 cr)
WMNS 189H. University Honors Seminar (3 cr)
WMNS 201. Intro to Lesbian, Gay, Bisexual, & Transgender Studies (3 cr)
WMNS 218. Philosophy of Feminism (PHIL 218) (3 cr)
WMNS 242. Native American Women (ETHN/HIST 242) (3 cr)
WMNS 281. Challenges to the State (POL S 281) (3 cr)
WMNS 329. Women in European History (HIST 329) (3 cr)
WMNS 385. Women, Gender & Science (3 cr)

I. Languages-Classical & Modern

The languages requirement serves to help students gain a working familiarity with a language and a culture other than their own.

ANTH 104A. Native Language I: Oma hia I (ETHN 104A) (5 cr)
ANTH 105A. Native Language II: Oma hia II (ETHN 105A) (5 cr)
ANTH 204A. Native Language III: Oma hia III (ETHN 204A) (3 cr)
ANTH 205A. Native Language IV: Oma hia IV (ETHN 205A) (3 cr)
CZEC 101. Beginning Czech I (5 cr)
CZEC 102. Beginning Czech II (5 cr)
CZEC 201. Second-Year Czech I (3 cr)
CZEC 202. Second-Year Czech II (3 cr)
ETHN 104A. Native Language I: Oma hia I (ANTH 104A) (5 cr)
ETHN 105A. Native Language II: Oma hia II (ANTH 105A) (5 cr)
ETHN 204A. Native Language III: Oma hia III (ANTH 204A) (3 cr)
ETHN 205A. Native Language IV: Oma hia IV (ANTH 205A) (3 cr)
FREN 101. Beginning French I (5 cr)
FREN 102. Beginning French II (5 cr)
FREN 201. Second-Year French I (3 cr)
FREN 202. Second-Year French II (3 cr)
FREN 203. Conversation & Composition (3 cr)
FREN 210. Accelerated Second-Year French (6 cr)
GER M 101. Beginning German I (5 cr)
GER M 102. Beginning German II (5 cr)
GER M 201. Second-Year German I (3 cr)
GER M 202. Second-Year German II (3 cr)
GER M 203. Group Composition & Conversation (3 cr)
GER M 210. Accelerated Second-Year German (6 cr)
GER EK 101. Elementary Greek I (5 cr)
GER EK 102. Elementary Greek II (5 cr)
GER EK 361. Homer (3 cr)
GER EK 371. Xenophon (3 cr)
GER EK 372. Plato (3 cr)
GER EK 373. New Testament Greek (3 cr)
HEBR 101. Elementary Biblical Hebrew I (5 cr)
HEBR 102. Elementary Biblical Hebrew II (5 cr)
HEBR 201. Biblical Hebrew Prose (3 cr)
HEBR 202. Biblical Hebrew Poetry (3 cr)
JAPN 101. Beginning Japanese I (5 cr)
JAPN 102. Beginning Japanese II (5 cr)
JAPN 201. Second-Year Japanese I (3 cr)
JAPN 202. Second-Year Japanese II (3 cr)
LATN 101. Elementary Latin (5 cr)
LATN 102. Elementary Latin (5 cr)
LATN 201. Accelerated Latin (3 cr)
LATN 202. Latin Poetry (3 cr)
RUSS 101. Beginning Russian I (5 cr)
RUSS 102. Beginning Russian II (5 cr)
RUSS 201. Second-Year Russian I (3 cr)
RUSS 202. Second-Year Russian II (3 cr)
SPAN 101. Beginning Spanish I (3 cr)
SPAN 102. Beginning Spanish II (3 cr)
SPAN 201. Second-Year Spanish I (3 cr)
SPAN 202. Second-Year Spanish II (3 cr)
SPAN 203. Conversation & Composition (3 cr)
SPAN 210. Accelerated Second-Year Spanish (6 cr)

Integrative Studies Courses

Each student will take ten courses which have been reviewed and designated as Integrative Studies (IS) courses. These are standard university courses which engage students intensively in those intellectual activities which are the hallmarks of the educated person—writing, speaking, critical thinking, and the consideration of human diversity. Integrative Studies courses can be taken from any university department (including the major), with a limit of three from one department. Of ten IS courses, at least one must be a 200-level course, one a 300-level course, and one a 400-level course. Always check with your college adviser about applying particular courses towards your Integrative Studies requirement. Many IS courses will also be ES (Essential Studies) courses, so that students will be able to fulfill both requirements simultaneously.

NOTE: For students in the College of Arts and Sciences no courses offered through correspondence, those with an (x) designation, may be applied to the Integrative Studies requirement. For a list of approved Integrative Studies courses, see "Integrative Studies Program List" on page 388.

Information Discovery and Retrieval

The University of Nebraska-Lincoln's Love Library faculty is making available to all incoming students a 1-credit-hour course which will teach not only how to use the library system on campus but also how to do research with emerging electronic databases. Students in arts and sciences are required to take this course in their first year.

110. Introduction to Library Research (1 cr) A seven-week independent learning course. Practical understanding of libraries, their organization, tools and services, and strategies for accessing information and performing library-based research.

For more information about this course or the University Libraries, see "University Libraries" on page 365.

Areas of Study for the Major and Minor

The Major

Students will usually begin by working on general education requirements. If a major field has not already been chosen, work on the general education requirements may help students to establish their interests and capabilities. Students are advised to choose a major before the end of the sophomore year to avoid extending the period of time necessary to complete the degree. By gaining a deeper knowledge of one field, the student will further his or her general liberal education, prepare for a career in his or her specialization, and possibly advance to graduate work or a professional program. It is sometimes possible, through careful planning, for students to complete more than one undergraduate major. Students should consult their advisers about this possibility. The student who majoring in more than one field will be assigned to an adviser in each field.
If a student receives a grade lower than C in a course in his or her chosen major, it will not count toward the major.

Students must complete at least 1/2 of the course work in their chosen major field in residence including 6 hours above 299, regardless of the number of hours transferred.

The Minor

The only minors available outside the College for arts and sciences students are listed in the following section “Areas of Study” under “Areas Offering Minors Only.” The requirement of minors is variable within the College and depends upon the student’s major department. Some departments require either one or two minors, and other departments require none. Two minor plans are available.

Plan A. Students must complete at least 6 hours of course work in a Plan A minor in residence regardless of the number of hours transferred.

Plan B. Two minors are completed with fewer hours in each subject than the number required for a single minor. Hour requirements are stated in the areas of study listings. In support of certain majors, minors outside the College of Arts and Sciences are permitted under this plan.

Areas of Study

The College of Arts and Sciences offers study toward the major and minor in many areas. In addition to the listed areas, the integrated studies option (see “Individualized Program of Studies (IPS)” on page 180) allows even more flexibility in the choice of a major study area. Specific requirements for each area of study are listed with the course descriptions in the alphabetical department and area listings in this bulletin. A summary of the major and minor areas of study for degrees offered by the College of Arts and Sciences includes:

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College of Arts and Sciences-Areas of Study

Information concerning each of the College’s areas of study is presented in this section in the following sequence:

1. Department or area name,
2. Department Chair and department address and teaching professors,
3. General information,
4. Pass/no pass regulations regarding major and minor work,
5. Requirements for a major in the area of study,
6. Requirements for a minor or minors in the area of study,
7. Detailed description of courses.

For complete and current information on chief advisors for majors and minors, and preprofessional areas, contact the Arts and Sciences Advising Center, 107 Oldfather Hall, 472-4190.

Actuarial Science

Director: Warren Luckner, 210 CBA
Professor: Ramsay
Associate Professor: M. Shayekhi
Lecturer: Vagts

The actuarial science program covers all of the mathematical topics on the Society of Actuaries preliminary education syllabus. All students majoring or minoring in actuarial science can take advantage of the benefits of being in the program such as summer internships, career guidance, job placement, and participation in the Actuarial Club. Most students select one of the following: 1) major in actuarial science in the College of Arts and Sciences or in the College of Business Administration; or 2) minor in actuarial science and major in mathematics, economics or integrated studies in the College of Arts and Sciences. See the College of Business Administration section of this bulletin for a description of the major in that college.

No course may be taken Pass/No Pass.

Requirements for the Major in Actuarial Science

The major must include a complete calculus sequence (MATH 106-107-208, or 108H-109H, or the equivalent); and the following statistics and probability sequence: STAT 380, 462, 463 and 22 semester hours of actuarial science. (See actuarial science adviser for specified courses in actuarial science.) Students must complete STAT 462 before taking any 400-level actuarial science course except ACT S 440; STAT 463 may be taken concurrently with ACT S 470.

Requirements for the Minor in Actuarial Science

Plan A. Requires 15 hrs of actuarial science plus prerequisite mathematics and statistics course.

Plan B. Requires 12 hrs of actuarial science plus prerequisite mathematics and statistics courses.
Courses of Instruction (ACTS)

399. Independent Study (1-3 cr) Prereq: Permission.

401. Problem Lab: Basic Actuarial Applications of Probability (1 cr) Lab 1, Prereq: MATH 208/209 and STAT 440/442, or parallel, and both with a grade of "Pass" or "C" or better. Calculus-based probability, both univariate and multivariate, with an emphasis on applications to related problems. Problems as posed in the Society of Actuaries (SOA) Exam P and/or Casualty Actuarial Society (CAS) Exam 4.

403. Problem Lab: Basic Actuarial Applications of Financial Mathematics (1 cr) Lab 1, Prereq: ACTS 440/442/840 or parallel. Application of basic mathematics of finance to problems involving valuation of financial transactions. Problems as posed in the Society of Actuaries (SOA) Exam FM and/or Casualty Actuarial Society (CAS) Exam 2. Determining equivalent interest rates; determining the rate of return on an investment; discounting or accumulating a sequence of payments with interest; determining yield rate; length of investment; amounts of investment contributions or amounts of investment returns for various types of financial transactions; and basic calculations involving yield curves, spot rates, forward rates, duration, convexity, immunization and short sales introduction; and determination of loss sharing parameters, deductibles, and maximum payments.


425. Actuarial Applications of Financial Mathematics (3 cr) Lec. Prereq: MATH 200 with a grade of "Pass" or "C" or better, or parallel. Application of financial mathematics to problems involving valuation of financial transactions equivalent measures of interest; determining interest rates; discounting or accumulating a sequence of payments with interest; and yield rates length of investment; amounts of investment contributions or amounts of investment returns for various types of financial transactions loans and bonds. Introduction to the mathematics of modern financial analysis. Calculations involving yield curves, spot rates forward rates, duration, convexity, immunization, and short sales introduction, and determination of loss sharing parameters, deductibles, and maximum payments.

427. Risk Theory (3 cr) Lec. Prereq: ACTS 462 and 462 with a grade of "Pass" or "C" or better. Applications of compound distributions in modeling of insurance loss size and of compound Poisson processes. Introduction to the mathematics of the Poisson distribution and its use in risk management; and introduction to the concept of no-actuarial control as a fundamental concept in financial mathematics.


470. Life Continuities (I) (3 cr) Prereq: ACTS 440/840 and 462, each with a grade of "Pass" or "C" or better. First course of a two-course sequence that includes ACTS 471. Actuarial models of life insurance and health insurance, including life contingencies.

471. Life Continuities (II) (3 cr) Prereq: ACTS 470/471 and ACTS 472/872 with a grade of "Pass" or "C" or better. Second course of a two-course sequence that includes ACTS 470. Life insurance reserve for models based on a single life. Life insurance reserve for models based on a collective life, multiple decrement models, and multiple decrement models.


475. Actuarial Applications in Practice (3 cr) Lec. Prereq: ACTS 440/840, FINA 307/307H or 338. Principles and practices of pricing and/or funding and valuation for life, health, property and liability insurance, and annuities and pension plans. Commercially available actuarial modeling software.

860. Loss Distribution (3 cr) Prereq: STAT 463.

899. Masters Thesis (6-10 cr) Refer to the Graduate Bulletin for 900-level courses.

Aerospace Studies

(Minor only)


Air Force ROTC

The preparation of future Air Force officers is provided through the Air Force ROTC program. Enrollment is open to any student attending the University on a full-time basis. The curriculum provides the individual with a firm understanding of the concepts of aerospace power and the Air Force mission, organization and operations.

Enrollment in the AFROTC is voluntary and accomplished through the fall and spring registration periods. Scholarships are available in many AFROTC courses. The curriculum covers the material in a competitive basis. Approximately seventy percent of the students hold scholarships. Approximately one-fourth of the cadet corps consists of women. Almost all Air Force career fields are open to women, including pilot positions.

General Program

Both the two- and four-year Air Force ROTC programs are offered. The program consists of the General Military Course (GMC) during the freshman and sophomore years and the Professional Officer Course (POC) for the remaining two years of college. Those students who elect not to participate in the GMC may substitute a six-week summer field training period for this requirement. Four-year cadets participate in a four-week training period during the summer between their sophomore and junior years.

Minor in Aerospace Studies

(Joint Military Studies)

The minor in Aerospace Studies is offered to any student completing the courses of study listed below. The minor not only prepares cadets for active duty service but provides any student the opportunity to study one of our country's major instruments of power, the United States Military. In addition to studying Air Force organizational missions and operations, the student will gain a broad perspective of the military in general by studying the history of all Department of Defense Services, thus emphasizing our country's focus on "Joint" military operations.

Course Requirements (18 cr)

1. AERO 331, 332, 441, 442 (total 12 cr)
2. 3 cr from the following: MNG 320, 360, 361, 428, 464, 465, or 466
3. 3 cr from the following: HIST 304, 305, GEOG 227; POLS 160, 260, 360, 363, 462

Active Duty Obligation

There is no active duty obligation for enrollment in any AFROTC courses, unless a student wishes to become an Active Duty Air Force Officer or accepts an Air Force Scholarship. Students who complete the Air Force ROTC program and receive an commission, incur a four-year active duty commitment. Flying officers serve additional commitments from the time they complete their training.

African American and African Studies

(Minor only)

Coordinator and Undergraduate Adviser for African American and African Studies

Oyekan Owoyemi

Faculty: Combs (political science), Curry (history), Dreher (English/ethnic studies), Eaton (English), Hinchman (architecture), Jones (history/ethnic studies), Norton (journalism), Oakey (English), Peterson (agricultural economics), R inkevich (classics), Rudege (English), Shaver (law)

African American and African Studies includes two minors African American and African American Studies.

The African American Studies minor affords students the opportunity of widening their academic horizons to include a part of the world that, because of its past and continuing relevance to the American continents, deserves study. The minor will contribute to the students' understanding of the diverse peoples and cultures of
Requirements for the Minor in African American Studies

The minor in African American Studies is designed to expose students to a program of study concerning African American culture, life, and history in the United States as well as the African experience on the continent and/or in the Diaspora.

Requirements for the Minor in African American Studies

- Core Course: ETHN 200 Intro to African American Studies (3 cr)
- At least 15 hours (from at least three departments) from the following courses (other courses may be used with the approval of the minor adviser):
  - ANTH 362. Peoples & Cultures of Africa (3 cr) (ETHN 362)
  - ETHN 244A. African Literature (EN GL 244A) (3 cr)
  - ETHN 244B. Black Women Authors (EN GL 244B) (3 cr)
  - ETHN 244D. African-Caribbean Literature (EN GL 244D) (3 cr)
  - ETHN 485. Africa Since 1800 (HIST 485) (3 cr)
  - ETHN 486. History of South Africa (HIST 486) (3 cr)
  - POLS 260. Problems in International Relations (3 cr)
  - POLS 474/874. African Politics (3 cr)

Requirements for the Major in Anthropology

- 30 hours of anthropology including ANTH 212, 232, 424, 424L, and at least 12 hours in courses numbered in the 300- and 400-series. ANTH 107, 110 may not be included in the 30 hours required for the major. Fieldwork is recommended. Only 6 credits total of 290 and 490 may count toward the major. Only 3 credits of 291 or 491 may count toward the major. A minor may be chosen from any minor offered by the College of Arts and Sciences.

Program Assessment. In order to assist the department in evaluating the effectiveness of its program, majors will be required in their senior year:
1. To complete an oral examination which focuses on the breadth of the field as well as on the student's field of specialization.
2. To complete a written exit survey, submitted anonymously.

The undergraduate adviser will inform students of the scheduling and format of assessment activities. Results of participation in these assessment activities will in no way affect a student's GPA or graduation.

Requirements for the Minor in Anthropology

- Requires 18 hours of anthropology including ANTH 212, at least one of the 200-level core courses in anthropology (ANTH 212 Introduction to Cultural Anthropology, 232 Introduction to Archaeology, or 242 Introduction to Physical Anthropology); and, at least one 300- or 400-level anthropology course up to 6 hours of field study (ANTH 290, 291, 490, 491) and 6 hours of advanced N orive language (ANTH 204, 205, 210) courses may apply. Excluded courses ANTH 104, 105, 107, 130.

Graduate Work. The Department of Anthropology offers graduate work leading to the master of arts degree. A description of the program appears in the Graduate Studies Bulletin.

Courses of Instruction (ANTH)

- 107. Individual and Society (3 cr)
- 110 [110c]. Introduction to Anthropology (3 cr)
- 130 [130c]. Anthropology of the Great Plains (3 cr)
- 212. Introduction to Cultural Anthropology (3 cr)
- 221 [221c]. Introduction to Ethnology (3 cr)
- 232 [232c]. Introduction to Prehistory (3 cr)

Introductory

- 100, 105, 107, 110, 130, 212, 221, 232.
434/834. Introduction to Great Plains Archaeology (3 cr) Lec 3, Prereq: ANTH 222. Introduction to the history of archaeological research, taxonomic issues, cultural sequences, and current research topics within the Great Plains area of North America.

435/835. Introduction to Heritage Management (Archaeology) (3 cr) Lec 3, Prereq: ANTH 232. Introduction to the nature and purpose of historic preservation as it pertains to resource management and archaeological research. Logical and philosophical issues. The basis for cultural resource management principles. Integration of state programs and archaeological contracts within the overall framework of land use planning.

436/836. The Ancient Maya (LAMS 436) (3 cr) Lec. Introduction to the prehistory of the M area and its periphery. Features of the ancient M cultural, political, economic, religious, gender, and material structure. M artifact, theoretical, and political debates in M studies. Interdisciplinary research and the types of methods used to create knowledge about M civilizations.

438/838. Topics in Old World Prehistory (CLAS 438/838) (3 cr) Prereq: 12 hrs anthropology. Offers advanced archaeology students in-depth exposure to selected topics drawn from the wide breadth of Old World prehistory. Through lectures, seminar discussions, and student presentations, the class explores diverse data relevant to selected theoretical or topical problems.


487/887. Analysis of Archaeological Materials (4 cr, max 16) Lec, lab. Prereq: ANTH 232. ANTH 487/887 may be repeated. Topics vary by semester. Survey of vocabulary, techniques, and ideas needed to research major materials found in archaeological sites.

A. Ceramics (4 cr)
B. Lithics (4 cr)
C. Archaeofauna (4 cr)
D. Historic Material Culture (4 cr)

*894. Internship in Professional Archaeology (1-6 cr, max 6) Prereq: 9 hrs ANTH. Refer to the Graduate Bulletin for 900-level courses.

Laboratory and Field Training

290. Fieldwork (1-6 cr, max 24) Lec, Prereq: Permission. Only 6 hrs of ANTH 290 are allowed toward the ANTH major. Participation in research projects to learn basic field techniques and the relationship between research design and execution.

291. Laboratory Work in Archaeology (1-6 cr, max 24) Lec, lab. Prereq: Permission. Only 3 hours of ANTH 291 are allowed toward the ANTH major. Practical experience in the preparation and manipulation of archaeological materials. Experience gained through participation in faculty-guided laboratory projects.

283/883. Advanced Field Methods (3 cr) Prereq: Permission. Preparation for fieldwork through study of the philosophical and practical problems of anthropological field research. W hen appropriate, small-scale fieldwork exercises are planned, executed, and analyzed.


490/890. Advanced Fieldwork (1-6 cr, max 24) Lec, lab. Prereq: permission. Only 6 hrs of ANTH 291 may count toward the major in ANTH. Only 6 cr hours of ANTH 290 are allowed toward the ANTH major. May be taken in one of the ANTH 290 courses. Further practical experience in field research.

491/891. Advanced Laboratory Work (1-6 cr, max 24) Lec, lab. Prereq: Permission. Only 3 credit hours of ANTH 491 for course description, see POLS 261.

396. Advanced Readings (1-6 cr, max 6) Prereq: 6 hrs of social science. Tutorial course in areas of special interest.

399H. Honors Course (1-4 cr) Prereq: Open to candidates for degrees with distinction, with high distinction, and with highest distinction in the College of Arts and Sciences. Good standing in the University Honors Program and permission.


479/879. Pro-seminar in International Relations (LAM 479, EC ON, POLS, SOCI 479/879) (3 cr, max 6) Prereq: Open to students with an interest in international relations. Topical seminar. For course description, see POLS 466/866.

482/882. Research Methods in Anthropology (3 cr) Prereq: Permission. For course description, see POLS 466/866.

[IS] 485/885. Pro-seminar in Anthropology (1-3 cr) Prereq: Permission. Recent controversial issues through the integration of biological, cultural, and archaeological branches of anthropology.

495/895. Internship in Anthropology (1-6 cr, max 6) Prereq: Sophomore standing. A structured professional experience outside the traditional academic setting designed to allow students to learn and use anthropological skills and knowledge and to develop professional networks.

496/896. Special Readings in Anthropology (1-6 cr)


499. Senior Research Thesis (1-6 cr, max 6) Ind. Prereq: Senior standing and permission.

899. Masters Thesis (6-10 cr)

Refer to the Graduate Bulletin for 900-level courses.

Archaeology

(Minor only)

Chair and Chief Adviser: Professor Michael Hoff, 308 N elle C ochrane Woods
Faculty: Anth anasopoulos, Bleed, Dieser, Sanchez, Scott, Wandisnier (anthropology and geology); Hoff (art and art history); Lynott, Hunt, Nobil (NPS-M WAC)

Modern archaeology studies the origins and growth of basic human institutions. It produces results of importance to researchers in many fields and involves the work of diverse academic areas. Recognizing these broad links, the archaeology minor gives students from diverse disciplinary backgrounds the opportunity to learn the approaches of modern archaeology. It allows students to develop academic strengths that will prepare them for advanced training and careers in the array of fields that make use of archaeological data and methods. Anthropology majors may declare an archaeology minor only if their major program includes at least 9 credits of 300 or 400 cultural or biological anthropology classes.

Requirements for the Minor in Archaeology

- 18 hours of course work with at least 6 hours each from Lists A, B, and C below and at least two of the departments participating in the minor.

List A
ANTH 323. Intro to Prehistory (3 cr)
ANTH 432. History & Theory of Archaeology (3 cr)
AHIS 211. Classical Art & Archaeology (3 cr)

List B
ANTH 290. Fieldwork (1-6 cr each)
ANTH 490. Advanced Fieldwork (1-6 cr each)

List C
ANTH 252. Archaeology of World Civilizations (CLAS 252) (3 cr)
ANTH 433. North American Archaeology (3 cr)
ANTH 434. Intro to Great Plains Archaeology (3 cr)
ANTH 435. Intro to Heritage Resource Management (3 cr)
ANTH 436. Ancient M aya (3 cr)
ANTH 438. Topics in Old World Prehistory (CLAS 438) (3 cr)

ANTH 487A, B, D, E. Analysis of Archaeological M ajor's Courses (4 cr each)
Art and Art History

(Minor Only)

Art Minor

Plan A: 19 hours - ART P 140A and 140B; ART P 141A and 141B; ART P 143; AHIS 101 or 102; and 6 hrs studio electives.

Plan B: 12 hours of studio art courses.

Art History Minor

Plan A: 18 hours of art history including AHIS 101 and 102. At least 3 hours must be in courses numbered above 299.

Plan B: 12 hours of art history including AHIS 101 and 102.

Asian Studies

(Minor only)

Director and Chief Adviser: Professor Andrew Wedeman, 520 O (after hours)
Faculties: Asato (modern languages), Banks (art history), Bleed (anthropology), Cible (history), Fues (economics), Guenter (architecture), Harpending (modern languages and literatures), Inuitake (modern languages and literatures), Nenemeth (educational psychology), N. E. W. (educational psychology), Rapkin (political science), Schmidt (health and human performance), Wedeman (political science)

A minor in Asian studies complements a liberal arts education by providing knowledge about the cultures and other aspects of a major part of the world. A minor also provides the basic background for additional studies of Asia in graduate school. Courses that may apply to the minor are offered by a variety of departments (see the following list), but several courses are not scheduled each semester.

Requirements for the Minor in Asian Studies

Plan A: A minimum of 18 hours selected from the courses listed below and representing a minimum of two departments.

Plan B: A minimum of 12 hours selected from the courses listed below and representing a minimum of two departments.

Program Approval. The designation of a specific minor must be approved and recorded by the chief adviser for the Asian Studies Committee. Courses designated with an asterisk (*), which include independent study and special topics, indicate ones that may apply to a minor provided they are approved by the chief adviser.

Courses that apply to the minor:

AHIS 398*. Special Topics in Art History
AHIS 490. Directed Individual Reading
ANTH 366. Peoples & Cultures of East Asia
ANTH 396*. Advanced Readings
ANTH 439*. Topics in Old World Prehistory
ANTH 496*. Special Readings in Anthropology
ARCH 450. Survey of Asian Architecture
ENGL 2438. Literature of India
ENGL 349*. National Cinemas
ENGL 497*. Independent Directed Reading
GEOG 375. Geography of Asia
GEOG 398*. Special Topics in Geography
GEOG 399*. Independent Study in Geography
GEOG 498*. Advanced Special Problems
HIST 181. Intro to East Asia Civilizations
HIST 282. Modern East Asia
HIST 286*. Special Topics in History
HIST 381. History of Premodern Japan
HIST 382. History of Modern Japan
HIST 383. History of Premodern China
HIST 396*. Special Problems
HIST 397*. Special Topics in History
HIST 480/880. The Social & Economic History of China Since the Late Ming Era
JAPN 101/102. Beginning Japanese
JAPN 201/202. Second-Year Japanese
MUSC 398*. Special Topics in Music
NUTR 205. Asian Art and Culture
POL S 274. Developmental Politics in East Asia
POL S 374. Japanese Politics
POL S 376. Chinese Politics
POL S 398*. Special Topics
POL S 399*. Individual Readings
POL S 464. Political Economy of the Asia-Pacific

Foreign Study. The University of N. E. B. Lincoln cooperates with N. Anan U. N. in N. agoya, Japan, in sponsoring an academic exchange program that allows U. N. students to pay N. N. U. N. Japan tuition, fees, and housing costs here and then earn resident credit while studying for a year in Japan. Interested students should contact the chair for the Asian Studies Committee for more information and application procedures.

Biological Chemistry

Interim Director: Raymond Chollet, N 202 Beadle Center
Associate Professors: Becker, Griep, Miner, Sarath
Assistant Professors: Bailey, Barycki, Brassett, Lee, Simpson, Somerville, Stone, Wilson, Zempleni
Senior Lecturer: M. adham

The Center for Biological Chemistry offers studies leading to a bachelor of science (BS) degree. The training offered is suitable for a professional career in biochemistry which may lead to employment in various industries involved in the manufacture or processing of chemicals, foods, feeds, toiletries, and pharmaceuticals or federal agencies such as the Food and Drug Administration, U. S. Department of Agriculture, U. S. Public Health Service, and Environmental Protection Agency. The program is also suitable as preparation for graduate studies leading to academic careers in biochemistry and professional careers in medicine, dentistry, veterinary medicine and health-related fields.

Pass/No Pass. Students majoring in biochemistry may take any of the courses required for the major in biochemistry Pass/No Pass except for courses involving independent study, research, and seminars.

Requirements for the Major in Biochemistry

The required program for a bachelor of science degree, Option I, with a major in biochemistry is:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO C 101, 431, 432, 433, 435</td>
<td>12 hours</td>
</tr>
<tr>
<td>BIO S 102, 206, 312, 314</td>
<td>12 hours</td>
</tr>
<tr>
<td>CH EM 113, 114, 116, (or 109, 110, 221), 251, 252, 253, 254, (or 261, 262, 263, 264), 471, (or 481)</td>
<td>21-24 hours</td>
</tr>
<tr>
<td>MATH 101 and 102 (or 103, or equivalent preparation), 106 or 106B, 107</td>
<td>10-15 hours</td>
</tr>
<tr>
<td>PHY S/ASTR 141, 142 (or 211, 212, 221, 222)</td>
<td>10-20 hours</td>
</tr>
<tr>
<td>HON R 101</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

Comprehensive Education Requirements (see college requirements) | 27-43 hours |

Students concerned about their preparation for college-level biology should take BIO S 101 and 101L prior to BIO S 102. Please consult your adviser if in doubt.

Within the same subject matter area, students may request a more advanced course be substituted for a required course.

Requirements for the Minor in Biochemistry

- Minimum of 18 credit hours of course work, to include the following courses: BIO C 431, 432; BIO S 206 (or AGRO 315), 312, 313 (or 314); CH EM 252 (or 262) and 254 (or 264).

Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required in their senior year to participate in an exit interview. The interview will be conducted in the context of the BIOC 435 course.

Results of participation in this assessment activity will in no way affect a student's GPA or graduation.

Laboratory Fee and Deposit. Students who enroll in laboratory courses in the Center for Biological Chemistry may be required to pay a small nonrefundable cash fee to defray the cost of materials consumed in the course and a deposit to cover the cost of replacing or repairing equipment the student may damage in the laboratory.

Graduate Work. Advanced degrees of master of science and doctor of philosophy are available. For details, consult the Graduate Studies Bulletin.

Courses of Instruction (BIOC)

101. Career Opportunities in Biochemistry (1 credit)

102. Introduction to the field of biochemistry and faculty research interests in the Center for Biochemistry: Exploration of careers in biochemistry.
Elements of Biochemistry (3 cr) Lec. 3. Prereq: CHEM 101 & 103L, or 104H. BIOC 311 will not count towards a biology major. Structure and function of proteins, carbohydrates, lipids and nucleic acids; enzymes; principal metabolic pathways; and biochemical expression of genetic information.

Laboratory for Elements of Biochemistry (1 cr) Prereq: Parallel BIOC 321.

Biochemistry and Metabolism (CHEM, BIOS 431/831) (4 cr I, II) Lec. 4. Prereq: CHEM 252 or 262. BIOS 102 recommended. F, 3 hrs. of a course of a 2-course, comprehensive biochemistry course sequence.

Structure and function of proteins, nucleic acids, carbohydrates and lipids; nature of enzymes; major metabolic pathways; and biochemical energy production.


Biochemistry Laboratory (BIOC, CHEM 433/833) (2 cr I, II) Lec 1 lab. Prereq: BIOS 431/831 or concurrent enrollment.

Introduction to techniques used in biochemical and biotechnology research, including measurement of pH, spectroscopy, analysis of enzymes, chromatography, fractionation of macromolecules, electrophoresis, and centrifugation.


Advanced Topics in Biochemistry (2 cr I, II) Lec 3. Prereq: BIOS 431/831. BIOS 432. BIOS 435 is open to BIOS 431 majors only. Literature research. Application of general biochemistry knowledge to current topics in the life sciences.

Biophysical Chemistry (CHEM, BIOS 436/836) (3 cr I, II) Lec. 3. Prereq: BIOS 321. Introduction to X-ray diffraction and protein structure. Absorption spectroscopy of biomolecules; linear and circular dichroism; spectroscopy of proteins and nucleic acids; Fluorescence probes, membrane dynamics, NMR, EPR, and resonance Raman spectroscopy applied to biological systems. Energetics, enzyme kinetics, relaxation kinetics, allosteric systems, and hybridization techniques.

Advanced Topics in Biophysical Chemistry (CHEM, BIOS 437/837) (4 cr I, II) Lec. 1. Prereq: CHEM 116 or 221 and BIOS/CHM 433/833, or permission. BIOS 437/837 is for advanced undergraduate and beginning graduate students who plan a career in laboratory work within the life sciences. Practical applications of biochemical methodology to studies in the life sciences. Practical experience with quantitation by computer.

Advanced Topics in Biophysical Chemistry (CHEM, BIOS 486/886) (3 cr I, II) Lec. 3. Prereq: CHEM 471/871 or 481/881. Applications of thermodynamics to biochemical phenomena, optical properties of proteins and polynucleotides, and kinetics of rapid reactions.


Honors Thesis (1-6 cr I, II, III) Lec. Prereq: Good standing in the University Honors Program or by invitation; and permission. AGRI 450 or 451 recommended. Conduct a scholarly research project and write a University Honors Program or undergraduate thesis.

Plant Molecular Biology (AGRO, BIOS, SHORT 481) (3 cr I, II) Lec. Prereq: AGRO 315 or BIOS 206. BIOS 431 or permission.

Agricultural Biochemistry (AGRO 818) (2 cr) Prereq: Undergraduate degree with a major related to the life sciences and a course in biochemistry.

Molecular Biology Laboratory (BIOS, SVEMS 838) (5 cr I, II) Lec. 6 lab. Prereq: BIOS 432/832, BIOS 312 and 313, an advanced course in genetics and permission.

Graduate Survey of Biochemistry (CHEM, BIOS 489) (3 cr) Prereq: Graduation standing in biochemistry, chemistry, or biological sciences or permission.

Redox Biochemistry (CHEM 848) (3 cr) Prereq: 3 hrs. BIOS 430.

Chemistry for Secondary School Classrooms (CHEM, TEAC 869; BIOS 883) (1 cr, max. 12) This course cannot be taken for graduate credit in chemistry or biochemistry.

Research in Biochemistry (BIOS 889) (3-4 cr I, II, III) Prereq: BIOS 433/833 and permission.

Masters Thesis (BIOS 899) (6-10 cr I, II, III) Refer to the Graduate Bulletin for 900-level courses.

Biological Sciences

Director: Alan C. Kamili, 348 M anter Hall
Vice Director: John C. Osterman, 348 M anter Hall


Associate Professors: Alfano, Atkin, Avramova, Bachman, Ceruttii, Chia, Christensen, Elthon, French, Giedler, Harris, Handman, Knops, Martin, M itra, O, Osterman, Pelov, Veomett, Wagner.

Assistant Professors: Angellei, Brasil, Funnell, H ebets, M oriya, Rudo, Storz, T enhurst, Ziang

Senior Lecturers: Glider, Woodman

The School of Biological Sciences offers educational opportunities in various areas of biology leading toward either the bachelor of arts or the bachelor of science degree. Study in the biological sciences prepares students for a variety of careers requiring knowledge of biological processes, such as teaching; environmental resource management and assessment; production and sales of biological materials; research in governmental, industrial, and academic laboratories, as well as preparation for careers in medicine, dentistry, and health-related professions.

Graduate Work. The advanced degrees of master of science, and doctor of philosophy are offered. For details, see the Graduate Studies Bulletin.

Requirements for the Major in Biological Sciences

18 hours in the five core courses:
BIOC 102. Cell Structure & Function
BIOC 103. Organic Biology
BIOC 205. Genetics Molecular & Cellular Biology Lab
BIOC 206. General Genetics
BIOC 207. Ecology & Evolution

An additional 18 hours of elective courses in biological sciences, at least 10 of which must be at the 300 level or above, with at least 3 hours at the 400 level. Students interested about their preparation for college-level biology should consult their adviser.

No more than 8 hours may be from courses whose home department is other than biological sciences (see cross listed courses).

No Pass No Pass. No biological science course, except BIOC 310, used to fulfill the 36 hours for the major (and 18 hours for the minor) may be taken Pass No Pass.

The following courses will NOT count toward the biological sciences major: BIOC 140, 150, 160, 203, 220, 222, 230, AGR 400. Internship is offered Pass No Pass only and therefore may not be used in the major.

No minor is required, but biological sciences majors must complete the following ancillary courses in addition to the 36 hours in the major: BIOC 321 or BIOC 431, CHM 109 & 110 or CHM 113 & 114, CHM 251 & 253 or CHM 261 & 263 and one of the following: MATH 105, an approved statistics course (choose from STAT 218, EDPS 459, PSYC 350, ECON 215, STAT 380) or CSC 155.

PHYS 141 & 142 or PHYS 211 & 212.

Additionally, biological sciences majors are strongly urged to attend the Cedar Point Biological Station for at least one summer session. Majors are also encouraged to do a research project with a faculty member.

Program Assessment. To assist the department in evaluating the effectiveness of its program, all majors will be required in their senior year to register for BIOC 399 and complete selected assessment activities. Results of participation in these assessment activities will in no way affect a student's GPA or graduation.

Requirements for the Minor in Biological Sciences

18 hours, comprising the five course core: BIOC 102, 103, 205, 206, and 207.

Courses of Instruction (BIOS)

Assessment of the Major (0 cr) Prereq: Senior standing. Required for graduation. Pass No Pass only.

Completion of a standardized cumulative examination, an exit interview and other assessment activities.

General Biology (BIOC 101) Lec. 3. Prereq: High school chemistry or equivalent strongly recommended. Parallel BIOS 101L. Analysis of the structure, functions, and interactions of organisms at the molecular, cellular, and individual levels of organization.

General Biology Laboratory (1 cr) Lab. 3. Prereq: Parallel registration in BIOS 101L. Laboratory exercises and experiments that complement material covered in BIOS 101.

Cell Structure and Function (4 cr) Lec. 3. Prereq: High school chemistry, or CHM 109 or parallel CHM 110 recommended. General introduction to the chemistry of life, cellular organelles, metabolism and reproduction, the structure and expression of DNA and an introduction to patterns of inheritance.

Honors Cell Structure and Function (4 cr) Lec. 3. Prereq: Good standing in the University Honors Program or permission; high school chemistry, or CHM 109 or parallel CHM 110 recommended. General introduction to the chemistry of life, cellular organelles, metabolism and reproduction, the structure and expression of DNA and an introduction to patterns of inheritance.

Organismic Biology (4 cr) Lec. 3. Prereq: 18 hours of biology electives. BIOS 103 is intended for those with a personal or professional interest in the life sciences (broadly defined).
Survey of living organisms; their morphology, life histories, taxonomy, molecular biology, and biogeography. The nature of biological diversity, how that diversity is studied, and the economic importance of various groups of organisms.

[ES] 104H. Honors Introduction to Biology (4 cr) Lec 3, Lab 3; Prereq: A division to the University Honors Program. High school chemistry recommended.

In-depth survey of biological principles as applied to cells, individuals, and communities.

[ES][S] 109. General Botany (4 cr) Lec 3, Lab 3; Prereq: BIOS 101 and 101L or equivalent. Field work is required.

Introduction to the plant kingdom and to plants as biological organisms; structure and function of cells, tissues, and organs with emphasis on seed plants; the important processes and concepts: classification, inheritance, evolution, and ecology.

[ES] 111. The Biology of Microorganisms (4 cr) Lec 3, Lab 3; Prereq: BIOS 101 and 101L, or equivalent; Open to freshmen and sophomores; Juniors and seniors by permission only.

Comparative study of microorganisms principles and applications.

[ES] 112. Introduction to Zoology (3 cr) Lec 3; Prereq: BIOS 101 and 101L, or equivalent. Parallel registration in BIOS 112L required.

Survey of invertebrates, and the evolution, behavior and ecology of major animal groups.

[ES] 112L. Introduction to Zoology Lab (1 cr) Lab. 3; Prereq: BIOS 101 and 101L, or equivalent. Parallel registration in BIOS 112L required.

Laboratory activities evolve experiments that complement material covered in BIOS 112.

[ES] 140. Natural History of Western Nebraska (4 cr III) Lec, Lab 0, Field studies only at Custer Point Biological Station. Intended primarily for non-science majors and anyone interested in learning more about the natural world. Field trips to sites in western Nebraska.

Introductions the animals and/or plants of western Nebraska. Animals and/or plants in their natural environments.

150. Introduction to Dental Hygiene (4 cr) Lec 1, Lab 1; Prereq: 150 will not count toward a major in biological sciences.

Interest in dentistry, dental hygiene, or other health professions as a career. Career ends, ethics, anatomy, dental specialities and clinical experience.

160. Introduction to Clinical Laboratory Science (4 cr) Lec 1; Prereq: Freshman standing and permission of the director. The pre-clinical laboratory scientist/medical technologist to the profession of clinical laboratory science introduces the pre-clinical laboratory scientist/medical technologist to the profession of clinical laboratory science.

Survey of the pre-clinical laboratory scientist/medical technologist to the profession of clinical laboratory science.

170. Introduction to Dentistry and Dental Hygiene (1 cr) Lec 1; Prereq: 170 will not count toward a major in biological sciences.

Interest in dentistry, dental hygiene, or other health professions as a career.

Topics in Biology (1-3 cr) Prereq: Permission. Students need not be majors in biological sciences nor necessarily have had extensive biological training.

205. Genetics, Molecular and Cellular Biology Laboratory (4 cr) Lec 1 Lab 3; Prereq: BIOS 102, BIOS 206 or parallel.

Series of lab exercises to introduce principles of genetics, molecular and cellular biology. Experiments done using model systems to identify, map and clone genes; analyze gene products and expression; and fractionate cell components.

206. General Genetics (4 cr) Lec 3, rec 1, Lec Prereq: BIOS 101 and 101L, or 102.

Inheritance of variations in genes in animals, plants and bacteria and model genetic organisms. Genes examined from a classical, molecular and population viewpoint.

207. Ecology and Evolution (4 cr) Lec 3, Lab 3; Prereq: BIOS 206, BIOS 103 recommended. Introduction to the principles and processes of ecology and evolution. Structure and dynamics of populations and communities biotic and abiotic interactions mechanisms of evolutionary change; natural selection; adaptation; and speciation.

213. Human Physiology (3 cr) Lec 3; Prereq: BIOS 101 and 101L, or BIOS 102 or equivalent; parallel BIOS 213L.

Elementary survey of the basic functional systems of the human body: the muscular, nervous, respiratory, digestive, excretory, endocrine, and reproductive systems.

214. Human Anatomy (5 cr) Lec 2, Lab 6; Prereq: Sophomore standing. Cadey positions are studied in the lab. Introductory study of the major organ systems of the human body including skeletal, major muscle, nervous, digestive, circulatory, excretory, and reproductive systems. Anatomical structures as they relate to clinical anatomy.

216. Plant Breeding Principles and Practice (AGRO 216) (2 cr) Lec 2; Prereq: High school biology and chemistry. BIOS 101 and 101L, or 102 or equivalent recommended. For course description, see AGRO 216.

220Bc. Introductory Ecology (3 cr) Lec 3; Prereq: 8 hrs. biological sciences. 0 filed by independent study only. There is no numerical in-residence parallel. BIOS 220x will not count toward a major in biological sciences.

Basic concepts in ecology, including comparison of major world ecosystems. The Great Plains, the interplay of ecological principles and human activities.

230. The Pre-Health Experience for Biological Sciences Majors (1 cr) Lec 1; Prereq: Sophomore standing. BIOS major: BIOS 213 or 213L. Pass/Fail. BIOS 280 will not count toward a major in BIOS.

Exposure for pre-medical and other pre-health sciences students to careers in health sciences. Shadow a professional and research medically-based careers.

295. Topics in Biology (1-3 cr) Prereq: Permission. Students need not be majors in biological sciences nor necessarily have had extensive biological training.

T39. Independent Study in Biology (1-3 cr, max 3) Lab 1-3, rec 1-3; Prereq: 12 hrs BIOS including BIOS 101 or 102. 6 hrs BIOS; comparative anatomy recommended.

The design, execution, and evaluation of scientific experiments that significantly advance our knowledge of cell and molecular biology.

306. Survey in Cell and Molecular Biology Research (4 cr) Prereq: 12 hrs of biological sciences and permission.

Intensive practical research experience for students interested in determining light blepharophimosis. Team-taught by faculty who conduct research in cell and molecular biology and is designed to expose students to the methodologies that scientists use in investigating and solve research questions.

310. School of Biological Sciences Seminar (3 hr per sem) Prereq: 12 hrs BIOS including BIOS 101 and 206; one semester organic chemistry recommended. C rotation. BIOS 112.

The discussion and analysis of research topics of interest to students.

311. Molecular Microbiology Laboratory (2 cr) Lab 6; Prereq: BIOS 310 or equivalent. O year each of biological and general chemistry; one semester organic chemistry or biochemistry; BIOS 312 or parallel. One semester organic chemistry and one semester biochemistry recommended. BIOS 312 parallel recommended. C- credit towards the degree may be earned in both BIOS 313 and 314.

Molecular microbiology techniques which include recombinant DNA methods used in industry, medicine and research.

312. Microbiology Laboratory (1 cr) Lab 3; Prereq: O year each of biological sciences and general chemistry; one semester organic chemistry or biochemistry; 312L or parallel. One semester of organic chemistry and one semester biochemistry recommended. BIOS 312 parallel recommended. C- credit towards the degree may be earned in both BIOS 313 and 314.

Traditional microbiology techniques without recombinant DNA methods.

315. Vertebrate Embryology (4 cr) Lec 3, Lab 3; Prereq: 12 hrs ANTH 201 or equivalent. Gametogenesis, fertilization, cleavage, early development of a number of vertebrates, and the development of specific organ systems in human and non-human vertebrates. Morphological and ecological aspects of development are illustrated on slides and in which some modern techniques used in experimental mammalian development are introduced.

326. Biology of Viruses (3 cr) Lec 3; Prereq: BIOS 102; one year general chemistry and one year organic chemistry. Recommended parallel: BIOS 206 or BIOS 313.

Fundamental concepts in virology including basic features of structure, function, diseases, replication cycles and virus-host interactions.

374. Economic Botany (4 cr) Lec 3, Lab 3; Prereq: 12 hrs BIOS, including BIOS 103 or 109.

Major groups of economically important plants including crop crops, woodland plants, and ornaments. Evolution, cultivation, processing and uses of the plant.

381. Invertebrate Zoology (4 cr) Lec 1, Lab 3; Prereq: BIOS 102; 8 hrs biological sciences. Emphasis on parasitic diseases of humans. Impact of parasitism on human society, the evolution of parasites and their relationships with their human hosts.

385. Parasitology (4 cr) Lec 1; Lab 3; Prereq: 8 hrs biological sciences. Emphasis on parasitic diseases of humans. Impact of parasitism on human society, the evolution of parasites and their relationships with their human hosts.

399H. Honors Research (1 cr per sem) Prereq: Enrollment in the biological sciences honors program. Special topics in biology.

399H. Honors Seminar (1 cr per sem) Prereq: Enrollment in the biological sciences honors program. Special topics in biology.
Molecular basis of genetics. Gene structure and regulation, 418/818. Advanced Genetics
hours BIOS.

tigation including systematics, biogeography, conservation
principles of phylogenetic inference and emphasis on the
sciences, bioinformatics, computational biology, and genomics.
Perl Programming for Biological Applications
428/828. Perl Programming for Biological Applica-
tions analyses and protein structure analyses.
425/825. Plant Biotechnology
3 cr) Lec 3. Prereq: BIOS 205 and 206.
A research project designed to give practical experience with a
variety of molecular biology techniques.
A series of labs designed to acquaint students with modern tech-
niques used in cell biology labs including plant and animal
issues, two-dimensional protein gels immunoblotting, protein
purification techniques, and the use of computers to
analyze data.
454/854. Ecological Interactions (N RES 454/854) (4 cr) Lec 3. Prereq: BIOS 205 or equivalent. May also be offered at Cedar Point Biological Station.
Nature and characteristics of populations and communities
interactions within and between populations in ecosystems
structure and dynamics. Direct and indirect interactions and
ecological processes, competition, predation, parasitism,
herbivory, and pollination. Structure, function, and diver-
sion of natural communities, foodweb dynamics, succession,
and biodiversity.
455/855. Great Plains Flora (4 cr) Lab and field 9. Prereq: 12 hrs biological sciences or permission. May also be offered at Cedar Point Biological Station.
Plant identification. Field study of the flora in various habitats
Field trips include grassland and woodland vegetation of this
region.
Biological systems, from molecules to ecosystems, are analyzed
using mathematical techniques. Strengths and weaknesses of
mathematical approaches to biological questions. Brief review
of classical models, introduction to modeling, oscillating
systems in biology; randomness in biology; review of histori-
cally important and currently popular models in biology.
Processes controlling the cycling of energy and elements in
ecosystems and how both plant and animal species influence
them. Human-influenced changes that alter these cycles and
ecosystem functioning.
Introduction to animal behavior stressing the ethological
approach. Anatomical and physiological bases of behavior,
ontogenetic and phylogenetic observations, and the relations
of animal behavior studies to genetics, ecology, taxonomy,
and evolution. A signed reading.
Animal behavior stressing an experimental approach. Proxi-
mate and ultimate bases of behavior and the relations of
behavior to genetics, ecology, and evolution investigated using
classical methods and state-of-the-art techniques.
[15] 468/888. Field Animal Behavior (4 cr) Prereq: 12 hrs biological sciences or permission. Offered in the summer at Cedar Point Biological Station. Requires extensive field work and independent research project.
Behavior of animals. Emphasis on research methods for testing evolutionary hypotheses under field conditions with emphasis on foraging
behavior, animal communication, and animal social systems.
470/870. Prairie Ecology (4 cr) Prereq: BIOS 207 or equivalent. Extensive field work is required.
Structure, function, and distribution of communities Interac-
tion of different species with their biotic and abiotic environ-
ments.
Principles of plant classification, with emphasis on taxonomic
procedures, nomenclatural rules, and plant identification. Lab
work on taxonomic analysis and plant identification.
The principles and processes of micro- and macroevolution.
Mechanisms behind evolutionary change and examples of
these processes in a wide variety of organisms.
473/873. Freshwater Algae (4 cr) Lec 3, lab 4. Prereq: 12 hrs biological sciences. May also be offered at Cedar Point Biological Station.
Classification, identification, and life histories of algae from freshwater, soil, and air.
[15] 475/875. Ornithology (3 cr) Lec 1, lab 3. Prereq: 12 hrs BIOS 010 in lab (BIOS 475L/875L) by arrangement. May also be offered at Cedar Point Biological Station.
Review of avian biology, functional morphology, evolution-
ary relationships and breeding biology.
475L/875L. Ornithology Lab (1 cr) Lab 3. Prereq: Parallel BIOS 475 and permission.
477/877. Bioinformatics and Molecular Evolution (3 cr) Prereq: BIOS 101 and 101L, or 102; BIOS 206 or parallel or CHEM 251 or equivalent. Basic statistics recommended. Pathways and multiple alignment, sequence similarity and domain search, distance estimation, phylogenetic methods, gene mining, protein classification and structure Algorithms used in bioinformatics as well as fundamental concepts of
molecular evolution that underlie various bioinformatics
methods.
Developmental structure, and function of tissues and organs of
the higher plants Relationships of structure to physiology and biology of plants.
481/881. Helminthology (4 cr) Lec 2, lab 6. Prereq: 12 hrs biological sciences including BIOS 205 and permission. May also be offered at Cedar Point Biological Station.
Classification, morphology of helminth parasites, chiefly of animals other than man. Includes collection, prepa-
ration of specimens and techniques.
A natural host-parasite relationships, epizootiology, ecology, host distribution, classification, and life cycle stages of animal parasitology.
489/889. Natural History of the Invertebrates (4 cr) Prereq: 12 hrs biological sciences. Offered summers only at Cedar Point Biological Station.
Field course in invertebrate community relations stressing on-
site observation of community components, natural history,
and interactions.
489/889. Ichthyology (N RES 489/889) (4 cr) Lec 3, lab 4. Prereq: 12 hrs biological sciences. May also be offered at Cedar Point Biological Station.
Fishes, their taxonomy, physiology, behavior, and ecology.
Dynamics of fish stocks and factors regulating their production.
497/897. Special Topics in Biological Sciences (1-4 cr, max 24) Prereq: 12 hrs biological sciences and permission. Topics vary by term.
498/898. Independent Research in Biological Sciences (1-8 cr, max 24) Prereq: 12 hrs BIOS and permission. Four credit hours may be counted toward the undergraduate B.S. major. Before registering, arrangements must be made with a faculty member in BIOS to reach an agreement on the scope and to determine the amount of credit for the project. Independent study and laboratory or field investigation of a specific problem.
803. Evolutionary Principles (3 cr)
809. Professionalism (1 cr) Pass / No Pass only.
824. Fundamentals of Ecological and Evolutionary
Physiology (1 cr) Lec. 1. Prereq: Permission.
899. Masters Thesis (6-10 cr)
Cross Listed Courses (taught by other departments)


ES 116. Insect Identification (ENTO 116) (1 cr; I, II) For course description, see PT 116.

ES 220. Principles of Ecology (NRES 220) (3 cr) Lec 3. Pre-req: 4 hrs BIOS; MATH 101 or 103. NRES 220 is not open to students who have completed BIOS 207. NRES 220 will not count toward a major in biological sciences. Prereq for course description, see NRES 220.

ES 222. Ecology Laboratory (NRES 222) (1 cr) Lab 4. Pre-req: NRES 220 or parallel. May also be offered at Cedar Point Biological Station. Field trips to local ecosystems are required. For course description, see NRES 222.

300. Tools in the Environment (ENTO, NRES 300) (2 cr; I, II) Lec 2. Pre-req: One semester BIOS and one semester CHEM. Offered spring semester of even-numbered calendar years. For course description, see ENT 300.

ES [S] 369. Introductory Plant Pathology (PLPT 369) (3 cr) Lec 1 and 2. Pre-reqs: BIOS 101 and 101L, or 109. For course description, see PLPT 369.

ES 373. Biophysics (PSYC 373) (3 cr) Pre-req: PSYC 181 and BIOS 101 or 101L or their equivalents. For course description, see PSYC 373.

394. Seminar in Behavioral Biology (PSYC 394) (1 cr I, max 24) Pre-reqs: PSYC/BIOS 337. MAY be repeated for credit under different topics. For course description, see PSYC 394.


408 [S] 808. Functional Histology (VBMS 408/808) (4 cr I) Lec 1. Pre-reqs: BIOS 101 and 101L, or 102 or 112, BIOS 213 or ACSC 240, BIOS 315 recommended. For course description, see VBMS 408/808.

419. Behavioral Neuroscience (PSYC 419) (3 cr I, II) Pre-req: 12 hrs psychology or 12 hrs biological sciences, including PSYC/BIOS 315. MAY be repeated for credit under different topics. For course description, see PSYC 419.

431. BIOMolecules and Metabolism (BIOC, CHEM 431/831) (4 cr I, II) Lec 4. Pre-req: CHEM 252 or 262. BIOS 102 recommended. First course of a two-semester comprehensive biochemistry course sequence.

432. Gene Expression and Replication (BIOC, CHEM 432/832) (2 cr I, II) Lec 3. Pre-req: BIOC/CHEM 431/831. For course description, see BIOC 432/832.

433. Biochemistry Laboratory (BIOC 433/833) (2 cr; I, II) Lab 7. Pre-req: BIOC/CHEM 431/831 or concurrent enrollment. For course description, see BIOC 433/833.

434. Plant Biochemistry (AGRO, BIOC, CHEM 434/834) (4 cr I, II) Lec 3. Pre-req: BIOC/CHEM 431/831. MAY be repeated for credit under different topics. For course description, see BIOC 434/834.

436. Aquatic Ecology and Climatology (GEOL 436/836) (3 cr) Lec 3. Pre-req: 12 hrs geology or biological sciences. For course description, see GEOL 436/836.

437. Research Techniques in Biochemistry (BIOC 437/837) (4 cr I, II) Lec 1, Lab 9. Pre-req: CHEM 116 or 221 and BIOC/CHEM 433/833 or permission. For course description, see BIOC 437/837.

438. Biochemical Cycles (GEOL 438/838) (3 cr; I, II) Lec 3. Pre-req: CHEM 109 or 111, 12 hrs geology or biological sciences. For course description, see GEOL 438/838.

441. Pathogenic Microbiology (VBMS 441/841) (3 cr I, II) Lec 3. Pre-req: BIOS 312 and either 313 or 314, or permission. For course description, see VBMS 441/841.

[E] 442. Endocrinology (ASCI 442/842, VBMS 842) (3 cr) Lec 3. Pre-req: A course in vertebrate physiology and/or biochemistry. For course description, see ASCI 442/842.


446/846. Food Microbiology Laboratory (FDST 446/846) (2 cr I, II) Lab 6. Pre-req: Parallel registration in BIOS 445/845, BIOS 314 and permission. For course description, see FDST 446/846.

481. Molecular Biology (AGRO, BIOC, CHEM 481/881) (3 cr; I, II) Lec 3. Pre-req: BIOS 312 or 206 or BIOS 831 or permission. For course description, see AGRO, BIOC, CHEM 481/881.

851. Animal Biochemistry (BIOC *851) (3 cr; I, II) Lec 3. Pre-req: BIOC/BUS 481 or permission. For course description, see BIOC *851.


854. Principles of Plant Pathology (3 cr; I, II) Lec/2. Prereq: PLPT 369 or equivalent and introduction to Biochemistry or permission.

856B. Principles of Plant Pathology (I; 3 cr; I, II) Lec 3. Pre-req: BIOS/BUS 369 or equivalent and introduction to Biochemistry or permission.

857. Plant Pathogenic Bacteria (PLPT 867) (2 cr I, II) Lec 2. Pre-req: BIOS 312, BIOS 460/860, CHEM 432 or 433 or 436 or 866 or permission.

858. Molecular Biology Laboratory (BIOC, VBMS 868) (3 cr I, II) Lec 1 and 2. Pre-req: BIOS 432/832, BIOS 312 and 313, an advanced course in genetics and permission. Offered fall semesters only.

859. Gradute Study of Biochemistry (BIOC, CHEM 859) (3 cr I) Lec 4. Pre-req: Graduate standing in biological chemistry, chemistry or biological sciences or permission.

865. Woody Plant Growth and Development (NRES, HORT 865) (3 cr I, II) Lec 3. Pre-req: BIOS 313 or permission. Offered fall semester of even-numbered calendar year.

866. Advanced Limnology (NRES 866) (3 cr) Lec 3. Pre-req: NRES 459/859 or equivalent.

864A. Principles of Plant Pathology (3 cr I, II) Lec/dem 2. Prereq: PLPT 369 or equivalent and introduction to Biochemistry or permission.

864B. Principles of Plant Pathology (I; 3 cr I, II) Lec 3. Pre-req: BIOS/BUS 369 or equivalent and introduction to Biochemistry or permission.

865. Insect Transmission of Plant Diseases (ENTO, PLPT 865) (3 cr I, II) Lec 2. Pre-req: 8 hrs biological sciences including BIOS/BUS 461/861 preceding or parallel and 6 hrs entomology or biological sciences (zoology). Offered even-numbered calendar year.

866. Phytopathogenic Nemathelminthes (3 cr) Lec 2. Pre-req: BIOS/BUS 464/864 or permission.


868. Phytopathogenic Fungi (PLPT 868) (3 cr I, II) Lec 1. Pre-req: BIOS 312, 805, and 864A, or equivalent permission. Offered even-numbered calendar year.


Refer to the Graduate Bulletin for 900-level courses.

Business (Minor only)

Chief Adviser: Anne Kopera, 107 Oldfather Hall

Minor for General Business (Plan A only)

The College of Business Administration has joined with the College of Arts and Sciences, the College of Engineering, and the Hixson-Lied College of Fine and Performing Arts to offer a minor in general business to provide students a general business background. Students who minor in general business and are accepted into a majors program offered through the College of Business Administration will find they are well prepared to enter the majors program.

Pass/No Pass. Not allowed for foundation courses or business core courses.
Chemistry

Chair: Patrick H. Dussault, 551 Hamliton Hall
Vice Chair: Adrian George

Professors: Berkowitz, Carr, Dussault, Eckhardt, George, Hage, Harbison, Langel, Li, Parkhurst, R. J., Racz, Stezowski, Takacs, Zeng

Associate Professors: Belelo, D. Z., agno, Du, Grieb, Goldberg, Redpage

Assistant Professors: Cheung, C. H., Lo, Powers

Professor of Practice: Katz, M. alina

Often described as the “central science”, chemistry involves the study of the structure, properties, and synthesis of matter ranging in size from single atoms to DNA. A degree in chemistry prepares students for many career opportunities (research, analysis, production), teaching, graduate studies, or professional schools. The bachelor of science (BS) is recommended for students planning graduate studies or professional careers in chemistry and is also an excellent choice for pre-medicine. The bachelor of arts (BA) program is primarily designed for students needing undergraduate training in chemistry as preparation for professional careers outside of chemistry and fits easily into pre-medical, pre-pharmacy, pre-health, and pre-law degree programs. A degree with a chemistry emphasis is available to students enrolled in the Environmental Studies program (see “Environmental Studies” on page 163).

Requirements for the Major in Chemistry

Bachelor of Science. The required program for the bachelor of science degree, option II, with a major in chemistry is:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tr>
<td>CHEM 113, 114, 116, (or 109, 110, 221), 261, 262, 263 (for 2 cr), 264 (for 2 cr), 431, 433, 438, 482, 484, (for 3 cr), 471 (for at least one of the following courses)</td>
<td>43-46</td>
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Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required in their senior year:

1. To take a standardized chemistry exam during their final year in the program. It will be administered during the middle of the spring semester at a time that is mutually agreed upon by all graduating seniors.
2. To participate in an exit interview with a designated faculty member.
3. To submit a copy of the report written for CHEM 399 to the departmental office for evaluation.

The Vice-Chair will inform students of the scheduling and format of assessment activities. Results of participation in these assessment activities will in no way affect a student’s GPA or graduation.

Requirements for the Minor in Chemistry

Plan A. Requires a freshman chemistry sequence (CHEM 109 and 110 or CHEM 113 and 114) plus CHEM 221 or 226 respectively plus an additional 12 hours of chemistry excluding CHEM 131, 195, 396, and 399.

Plan B. Requires a freshman chemistry sequence (CHEM 109 and 110 or CHEM 113 and 114) plus CHEM 221 or 226 respectively plus an additional 8 hours of chemistry excluding CHEM 131, 195, 396, and 399.

Laboratory Fee and Deposit. Students who enroll in laboratory courses in the Department of Chemistry may be required to pay a small nonrefundable cash fee to defray the cost of materials and equipment used in the course. The cost of replacing or repairing equipment that the student may damage in the laboratory will be paid by the student N-C card.
193H. Honors Chemistry Laboratory I (1 cr) Seminar. Prereq: consent of professor. Seminar in which special topics in chemistry are taught at a level appropriate for the student population.

194H. Honors Chemistry Laboratory II (2 cr) Lab. Prereq: CHEM 252 or 262. Seminar in which special topics in chemistry are taught at a level appropriate for the student population.

195. Today's Chemistry in Education (3 cr) Lec, lab 1-4. This course cannot be used to satisfy the requirements for a minor in chemistry. Credit for the degree may be earned in only one: CHEM 111, 110, 111, 113, or 115.

Interactive, practical approach to learning chemistry and its relationship to today's world. Intended for elementary and middle-level education majors. Uses the Operation Chemistry model to help students learn the essential chemistry content and teaching practices for elementary-level classrooms.

[ES] 211. Elementary Quantitative Analysis (4 cr) Lec 3, lab 4. Prereq: CHEM 110. Credit may not be earned in both CHEM 211 and CHEM 221. Introduction to principles of quantitative analytical chemistry, including ionic equilibria and solution stoichiometry. Lab instruction in gravimetric, volumetric, and complexometric separations, and use of pH meter and spectrophotometer.

[ES] 251. Organic Chemistry I (3 cr) Lec 3, quiz 1, Prereq: CHEM 110 or 114, with a minimum grade of C. CHEM 251 or parallel. CHEM 211 or 221 recommended. CHEM 251 shares a quiz section with CHEM 252 and normally accompanies it.

CHEM 251 or 254. Organic Chemistry I Laboratory (2 cr) Lec 3, Lab 4. CHEM 251 or 254. Lab designed to accompany CHEM 251. Applications of analytical chemical principles to organic compounds found in nature.


[ES] 254. Organic Chemistry II Laboratory (1 cr) Lab 3. Prereq: CHEM 251 or 252. Continuation of CHEM 251 or 252. Laboratory experiments on organic compounds.

[ES] 261. Organic Chemistry (3 cr) Lec 3. Prereq: CHEM 110 or 114 with a grade of C, CHEM 251. CHEM 211 or 221 recommended. CHEM 251 shares a quiz section with CHEM 252 and normally accompanies it.

CHEM 251 or 254. Organic Chemistry I Laboratory (2 cr) Lec 3, Lab 4. CHEM 251 or 254. Lab designed to accompany CHEM 251. Applications of analytical chemical principles to organic compounds found in nature.

[ES] 262. Organic Chemistry (3 cr) Lec 3. Prereq: CHEM 251. CHEM 211 or 221 recommended. CHEM 251 shares a quiz section with CHEM 252 and normally accompanies it.

CHEM 251 or 254. Organic Chemistry I Laboratory (2 cr) Lec 3, Lab 4. CHEM 251 or 254. Lab designed to accompany CHEM 251. Applications of analytical chemical principles to organic compounds found in nature.

[IS] 264A, Organic Chemistry Laboratory (1 cr) Lab 3. Prereq: CHEM 251 or 252 or 262. Lab work in qualitative organic analysis.


[IS] 264E, Organic Chemistry Laboratory (1 cr) Lab 3. Students following the professional curriculum in chemistry should elect this course.

[ES] 264F, Organic Chemistry Laboratory (2 cr) Lab 6. Prereq: CHEM 251 or 252 or 262. Lab work in qualitative organic analysis.

[IS] 264G, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 261.

[IS] 264H, Organic Chemistry Laboratory (2 cr) Lab 6. Prereq: CHEM 251 or 252 or 262. Lab work in qualitative organic analysis.

[ES] 264I, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.


[IS] 264K, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.


[IS] 264M, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.

[IS] 264N, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.

[ES] 264O, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.

[IS] 264P, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.

[IS] 264Q, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.

[IS] 264R, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.

[IS] 264S, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.

[IS] 264T, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.

[IS] 264U, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.

[IS] 264V, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.

[IS] 264W, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.

[IS] 264X, Organic Chemistry Laboratory (1 cr) Lab 3. Students having credit in CHEM 251 or 252 or 262 may receive only 1 hour of credit in CHEM 251.
broadly conceived. It is an interdisciplinary major with two areas of emphasis: one in Classics and one in Religious Studies. Depending on your chosen emphasis, this major is designed to provide you with an excellent background to pursue graduate work in classical languages and literature, classical archaeology, ancient history, religious studies, literary scholarship, and other humane disciplines. In addition, the broad and humane education offered by the major serves as excellent preparation for careers in law, medicine, journalism, religion, business and education.

The Major in Classical Languages
This major is intended primarily for those interested in graduate study of the Greco-Roman world. As competency in both Greek and Latin is requisite for graduate study, students must take courses in both languages to complete the major. This major is also appropriate for students who wish to undertake advanced study in related fields such as linguistics, or to teach high school Latin.

Study Abroad. Advanced undergraduates are encouraged to further their studies abroad. Students may choose from among several established programs that cover a full academic year, semester, or summer. Most ancient studies programs offer a variety of courses in classics, ancient and modern languages, and history. In addition, students are introduced to the archaeology and art of the culture by frequent trips to sites and museums. These programs include, but are not limited to the American School of Classical Studies at Athens, College Year in Athens, the Intercollegiate Center for Classical Studies in Rome, and the Hebrew University in Jerusalem. Also, U N L faculty frequently offer archaeological study tours to Greece, Italy, Turkey and Egypt during the summers.

The courses and majors in the Department of Classics and Religious Studies have been designed to meet the needs of three categories of students:
1. Those who wish to pursue the subjects for general educational purposes;
2. Those who plan to major and do graduate work in classics or religious studies;
3. Those who want to become high school Latin teachers.

Any student who studies classics and religious studies will acquire the basic elements of a liberal education and a beneficial background for study in professional schools.

Pass/No Pass. Departmental permission to take minor or major courses for Pass/No Pass credit must be obtained. Request forms are available in the Arts and Sciences Advising Center, 107 Oldfather Hall.

Core Courses:
- CLAS 180. Classical Mythology (3 cr)
- CLAS 283. Epic Tales (3 cr)
- CLAS 286. Literature of the Ancient Near East (3 cr)
- CLAS 305. Ancient Greek Religions (REL 305) (3 cr)
- CLAS 307. Early Christianity (HIST/R ELG 307) (3 cr)
- CLAS 310. Pagans & Christians in the Roman Empire (3 cr)
- CLAS 331. Ancient Israel (HIST/JUD/S/REL 331) (3 cr)
- RELG 181. Judaism, Christianity, and Islam (3 cr)

Requirements for the Emphasis in Classics
Students may divide their courses among the following areas, provided 6 hours are taken in each area. Core courses may also count toward the area requirements.

Area A. Arts and Archaeology
- ARHS 211. Classical Art & Archaeology
- ARHS 311. Greek Art & Archaeology
- ARHS 313. Roman Art & Archaeology

Area B. Classical Language
- RELG 205. Intro to the Hebrew Bible/Old Testament (JUD/DS 205)
- RELG 212W. Life & Letters of Paul
- RELG 217. Israel: The Holy Land

Area C. Historical Studies
- RELG 225. Science & Religion
- RELG 220. Reason & Religion
- RELG 206. Ways of Western Religion

Area D. The Nature of Religion
- RELG 125W. Religion, Peace & Social Justice
- RELG 150. Explaining Religion
- RELG 206. Ways of Western Religion
- RELG 220. Reason & Religion
- RELG 225. Science & Religion
- RELG 310. Great Ideas in Religious Thought: From God to Nothingness

Area E. Biblical Studies
- RELG 205. Intro to the Hebrew Bible/Old Testament (JUD/DS 205)
- RELG 212W. Life & Letters of Paul
- RELG 217. Israel: The Holy Land
Requirements for the Major in Classical Languages

• 21 hours of courses in Latin or Greek numbered 300 or above. At least two courses must be taken in each language. Normally, no more than 6 hours of 399 credit may count towards major requirements. A minor is required and may be any Plan A minor offered by the College with the consent of the adviser.

Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required:
1. To assemble and maintain a portfolio to include syllabus and a copy of all written exams and assignments for each course taken for the major above 299.
2. In their senior year, to complete a translation/essay exam.
3. In their senior year, to complete a written exit survey.

The undergraduate adviser will inform students of the scheduling and format of assessment activities.

Results of participation in these assessment activities will in no way affect a student's GPA or graduation.

Requirements for the Minor in Greek and the Minor in Latin

• 12 hours in Greek or Latin numbered above 299.

Courses of Instruction

Classics (CLAS)

The courses in this category do not require knowledge of Greek or Latin.

116. [Junior], Scientific Greek and Latin (2 cr)

Scientific and technical terminology derived from Greek and Latin, with primary emphasis on medical language and terminology.


Introduction to ancient Rome. Mass spectacles such as drama, gladiatorial combat, and public executions.

[ES][IS] 180. Classical Mythology (3 cr)

Literary sources of Greek and Roman myths and their influence.

[ES][IS] 182. Alpha Learning Community Freshman Seminar (3 cr) Requires enrollment in the Alpha Learning Community Program. CLAS 183 is normally taken in the next term. Topic varies.

[ES][IS] 183. Heroes, Harlots and Helots (3 cr)

Introduction to the society of the ancient Greeks and Romans through study of the family and domestic institutions.

[ES][IS] 189H. University Honors Seminar (3 cr) Prereq: Good standing in the University Honors Program or by invitation. Uiversity Honors Seminar 189H is required of all students in the University Honors Program. Topic varies.


Interplay of knowledge, technology, and culture. Sources are the Egyptian, Hellenic, and Hellenistic wall-paintings, vase paintings, the artifacts, and surviving writings of, e.g., Homer, Aristotle, and Herodotus. They permit us to see the technical advances of the practitioners and to watch the slave-owning philosophers and engineers of the ancient eastern Mediterranean struggling to provide systematic explanations of these advances and of the natural world they see around them.

147. Classics and Religious Studies

College of Arts and Sciences

[ES] 245. War in the Classical World (3 cr)

A critical historical analysis of war as practiced from Classical Greece to Imperial Rome. Weapons, tactics, strategies, leadership and rationale.

[ES] 252. Archaeology of World Civilizations (ANTH 252) (3 cr)

For course description, see ANTH 252.

[ES][IS] 281. The World of Classical Greece (ENGL 280A) (3 cr)

English translations of the great works of Greek literature, which familiarize the student with the uniquely rich and influential world of Classical Greece.

[ES][IS] 282. The World of Classical Rome (ENGL 280B) (3 cr)

English translations of the great works of Latin literature, which familiarize the student with the uniquely rich and influential world of Classical Rome.


Survey of epic and their meaning, ranging from ancient epics to the M edieval and Renaissance epic literature including selected epics with their criticism and influence.


Selections from the literary texts and records of the ancient orient, including Aryan, Babylonian, Egyptian, and Sumerian.

[ES] 288. Egyptian (3 cr)

Egyptian hieroglyphics and language, grammar, syntax, and vocabulary for reading a work, such as the Papyrus and the M edievel.

[ES] 300. Ancient Egyptian Religions (CLAS 300) (3 cr)

Introduction to the religious practices of ancient Egypt from the predynastic through the classical period. Myth and ritual and the evidence from art history and archaeology.


Life, literature, thought, and institutions of the Christian movement from Jesus to Constantine. A critical historical approach to the sources in English translation and how they reflect the interaction of Christian, Jew, and pagan in late antiquity includes the historical Jesus vs. the God of the New Testament, the impact of Paul’s thought, the formation of Christian dogma, methods of interpreting canonical and extra-canonical Christian literature, the problem of heresy and orthodoxy.

[ES] 310. Pagans and Christians in the Roman Empire (3 cr)

The social, political and intellectual dimensions of the conflict between the old and new religions of the empire.

[IS] 315. Medieval World: Byzantium (HIST 315) (3 cr)

Exploration of the key dimensions of Byzantium’s social, economic and cultural developments; the role of Byzantium in world history; and the nature of the Byzantine legacy in contemporary Eastern Europe, Russia and the Balkans.

[IS] 320. The Classical World: Archaeology and Texts (3 cr)

Introduction to the religious practices of ancient Greece from the predynastic through the classical period. Myth and ritual and the evidence from art history and archaeology.

[ES][IS] 320. Pagans and Christians in the Roman Empire (3 cr)

The social, political and intellectual dimensions of the conflict between the old and new religions of the empire.

[IS] 315. Medieval World: Byzantium (HIST 315) (3 cr)

Exploration of the key dimensions of Byzantium’s social, economic and cultural developments; the role of Byzantium in world history; and the nature of the Byzantine legacy in contemporary Eastern Europe, Russia and the Balkans.

[IS] 320. The Classical World: Archaeology and Texts (3 cr)

Relation between archaeology and textual sources in classical antiquity as used to understand aspects of daily life (e.g., economy and trade, gender, ethnic identity, religion, political organization, etc.).
399H. Honors Course (1-4 cr) Prereq: Candidate for degree with distinction or with high distinction or with highest distinction in the College of Arts and Sciences.

408/408. Dead Sea Scrolls (JUD S R, ELG 408) (3 cr) Prereq: JUD S R, ELG 205 or 306. Dead Sea Scrolls, including the history and thought of the Qumran inhabitants, the archaeology of Qumran, and the corpus of the Scrolls. Concentration on the reading of selected primary texts from the Dead Sea Scrolls.

[ES][IS] 409/409. Religion of Late Western Antiquity (HIST 409/409, ELG 409) (2-3 cr) Examinations of the religious institutions, philosophies, and lifeways of the Hellenistic Age from Alexander to Constantine. Includes civic religion of Greece and Rome, popular religion, mystery cults, Gnosticism, Christianity, and Jewish popular and school philosophies (Platonism, Aristotelianism, Epicureanism, Cynicism, Stoicism, Gnosticism, Hellenistic interrelationships, emerging world view of these movements.

430/810. Gnosticism (R ELG 410) (3 cr) Examination of the nature, history, literature, ritual, and impact of the classical Gnostic religions. 100 BCE to 400 CE. Extensive reading of original Gnostic treatises in English translation, with particular attention to their appropriation and transformation of earlier Jewish, Christian, and pagan religious and philosophical traditions. The principal Gnostic schools to be treated are Simonians, Sethians, Valentinians, Hermetics, and Marcionists.

438/838. Topics in Old World Prehistory (ANTH 438/838) (3 cr) Prereq: 12 hrs. anthropology. For course description, see ANTH 438/838.


Refer to the Graduate Bulletin for 900-level courses.

Greek (GREK)

101. Elementary Greek I (5 cr) Fundamentals of grammar; reading and writing of simple Greek.

102. Elementary Greek II (5 cr) Continuation of GRK 101, reading of Attic prose.

361. Homer (3 cr) Prereq: GRK EK 371 or 372.

371. Xenophon (3 cr) Prereq: GRK EK 102. Selected reading from the Anaebias, Hellenica, Memorabilia.


399. Independent Study in Greek (3-24 cr) Prereq: Permission.

399H. Honors Course (1-4 cr) Prereq: For use of candidates for degrees with distinction or with highest distinction, and with highest distinction in the College of Arts and Sciences.

[IS] 492/892. Topics in Greek Prose (3 cr, max 24 cr) Repeatable. Readings from Greek prose masterpieces. Topics vary.

[IS] 492/892. Topics in Greek Poetry (3 cr, max 24 cr) Repeatable. Readings from Greek verse masterpieces. Topics vary.

896. Reading and Research (1-24 cr) Prereq: Permission.

899. Masters' Thesis (6-10 cr) Refer to the Graduate Bulletin for 900-level courses.

Hebrew (HEBR)


102. Elementary Biblical Hebrew II (5 cr) Prereq: HEBR 101 or permission. Continuation of HEBR 101; reinforcement of grammar and vocabulary, reading of selected biblical passages.


299. Independent Study in Biblical Hebrew (1-3 cr) Prereq: Permission.

896. Reading and Research (1-24 cr) Prereq: Permission.

Latin (LAT N)

The department advises students who come to the University with one or two semesters of Latin in high school to take LAT N 101; three or four semesters of Latin in high school to take LAT N 201; and five or six semesters of Latin in high school to take LAT N 302.

Persons expecting to teach Latin should consult with the chief adviser when they enter the University.

101. Elementary Latin (5 cr) This course and the following cover the amount of work usually done in two years of high school Latin.


103. Advanced Latin (3 cr) Caesars toward the degree may be earned in only one of LAT N 102 and 201. Rapid and condensed introduction to Latin grammar.

301. Latin Prose I (3 cr) Prereq: LAT N 102. Selections from Latin prose.

302. Latin Poetry I (3 cr) Prereq: LAT N 201 or 301. Readings from Latin poetry and study of Latin poetic technique.

303. Latin Prose II (3 cr) Prereq: LAT N 102. Selections from Latin prose.

304. Latin Poetry II (3 cr) Prereq: LAT N 201; LAT N 301 or 303. Readings from Latin poetry and study of Latin poetic technique.

375. The Vulgate: The Latin Bible (3 cr) Prereq: LAT N 301 or 302. Selected readings on grammar and vocabulary.


399H. Honors Course (1-4 cr) Prereq: For use of candidates for degrees with distinction, with high distinction, and with highest distinction in the College of Arts and Sciences.


896. Reading and Research (1-24 cr) Prereq: Permission.

899. Masters' Thesis (6-10 cr) Refer to the Graduate Bulletin for 900-level courses.

Religious Studies (RELG)

Courses listed with *AW* in the last position of the course number are taught at Nebra ska Wesleyan University (N W U).

[ES] 120W. World Religions (3 cr) History, beliefs and practices of the great religions of the world. Major attention to Hinduism, Buddhism, and Chinese religion, especially Taoism and Confucianism, Judaism, Christianity, and Islam. Other traditions as they intersect and inform the major faiths. Primal religions, American religions and other traditions. Comparison with the Christian tradition is central concern. Graphic material utilized to convey the culture and structures of each tradition.

[ES] 125W. Religion, Peace and Social Justice (3 cr) Explores religiously particular Christian responses to social justice issues such as peace, poverty, oppression, discrimination, the environment, the death penalty and abortion.

[ES] 130W. Women and Religion (3 cr) Readings and documents from church history dealing with attitudes toward women in Western religious thought. How this thinking has influenced theological concepts confronting women today and the role of theology in leading toward the emancipation of women in contemporary society.


Introduction to the religious traditions in the U.S. through thematic, historical, denominational and cultural considerations. Emphasizes the variety and diversity of religious experiences in the U.S., including Native American, Protestant, Catholic, African-American, Judaism, Islamic, Hindu and Buddhist traditions.

[ES][IS] 350. Explaining Religion (3 cr) Introduction to religion as an academic subject. Examines religious in terms of four interconnected elements: myth, transformative experience, and ethics. Representative materials drawn from different religions and cultures, including both western and non-western traditions.

[ES] 181. Judaism, Christianity and Islam (3 cr) A comparative study of the three great monotheistic faiths, from their historic beginnings to their present-day manifestations.

[ES][IS] 382. Alpha Learning Community Freshman Seminar (3 cr) Prereq: enrollment in the Alpha Learning Community Program. RELG 183 is normally taken in the first year. Topic varies.


[IS] 189H. University Honors Seminar (3 cr) Lec 3. Prereq: Good standing in the University Honors Program or by invitation. University Honors Seminar 189H is required of all students in the University Honors Program. Cannot be taken Past or Pass. Topic varies.


[IS] 386. Ways of Western Religion (3 cr) Introduction to the nature and range of religious traditions in western culture from the Bronze Age to the present. Readings through selected primary religious texts. Nature of religion and religious tradition, how these function to shape our view of self and society, and how religious functions to render human experience interpretable and significant.


[ES] 311W. Life and Letters of Paul (3 cr) Pauline literature, Paul's interpretation of Jesus, and his work as missionary to the Gentiles. Acts and the Pauline Epistles are primary sources. Contemporary analyses of Pauline thought and its importance for the contemporary situation.

[ES] 316. Israel: The Holy Land (HIST, JUDS 217) (3 cr) For course description, see HIST 217.

[ES] 319. Introduction to Jewish History (HIST, JUDS 219) (3 cr) Lec 3. For course description, see HIST 219.

[ES] 320. Reason and Religion (3 cr) Issues arising from the attempt to understand the human encounter with the divine. Introduces the study of philosophical theology. Significant figures from the past and contemporary approaches.
Communication Studies

Chair: William Seiler, 433 Oldfather
Director of Forensics: Aaron Duncan
Profsessors: Brathwaite, Krone, R. Lee, Seiler
Associate Professor: Japp
Assistant Professors: Kells, Lucas, Soliz
Senior Lecturer: K. Lee

Communication studies is a humanistic and scientific field of study, research, and application. Its focus is upon how, why, and with what effects people communicate through verbal and nonverbal messages. Just as political scientists are concerned with political behavior and economists with economic behavior, the student of communication studies is concerned with communicative behavior.

Communication studies calls for dynamic personal involvement. Students create and test their ideas, develop individual abilities, and gain competence in various communicative settings. They acquire knowledge and methods that apply to nearly every aspect of their private and public lives—in the classroom and as well outside.

Students declaring a major in communication studies should obtain a copy of the Guide to Undergraduate Studies in Communication Studies from the department and consult with the undergraduate adviser in communication studies immediately upon declaring the major.

The bachelor of arts degree in communication studies is offered in the College of Arts and Sciences. Dual registration in the College of Arts and Sciences and in the College of Education and Human Sciences leading to a major in communication studies, speech and dramatic art, or language arts with teacher certification is also possible. For information on programs leading to degrees with teacher certification see the College of Education and Human Sciences section of this bulletin.

University Debate and Forensics

The University of Nebraska-Lincoln offers a nationally recognized debate and forensics program of participation in campus and intercollegiate debate, public speaking, and interpretation events. The program gives students the opportunity to compete at the local, state, regional, and national level. No previous debate or speech experience is required. All students who are in good standing may take part in intercollegiate debate and forensics.

Pass/No Pass Availability of Pass/No Pass credit in communication studies courses is at the discretion of the course director and/or instructor of the course. Although the department discourages Pass/No Pass credit for majors, up to 6 hours of Pass/No Pass credit may be applied to the major requirements. Do not use VPA/ND credit toward the 34-credit-hour requirement in the major. Please refer to items 3 and 4 above.

Requirements for the Minor in Communication Studies

Plan A. This minor consists of a minimum of 12 hours in communication studies courses with at least 9 hours at or above the 300 level. The 18-hour requirement must include the following:

1. M ajors must complete both C O M M 200 and 201.
2. M ajors must complete both C O M M 320 and 321.
3. A minimum of 12 hours must be taken in communication studies courses at or above the 300 level excluding C O M M 311, 390 and 490.
4. O f the 19 hours at least 7 must be at the 400 level. C O M M 200 and 201 must be completed before a student can enroll in any 400-level course. C O M M 490 cannot be used to meet this requirement.

5. O f the 19 hours at least 7 must be at the 400 level. C O M M 200 and 201 must be completed before a student can enroll in any 400-level course. C O M M 490 cannot be used to meet this requirement.

Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required to complete a program portfolio. The undergraduate adviser will provide each major with an instruction sheet outlining the required contents of the portfolio, deadlines, and procedures.

Results of participation in this assessment activity will in no way affect a student’s GPA, but could prevent or delay graduation if the portfolio program is not completed as required.

Requirements for the Minor in Communication Studies

Plan A. This minor consists of a minimum of 18 hours in communication studies courses with at least 9 hours at or above the 300 level. The 18-hour requirement must include the following:

1. M ajors must complete both C O M M 200 and 201.
2. M ajors must complete both C O M M 320 and 321.
3. A minimum of 9 hours must be taken in communication studies courses at or above the 300 level excluding C O M M 311, 390 and 490.
4. O f the 9 hours at least 3 must be at the 400 level. C O M M 200 and 201 must be completed before a student can enroll in any 400-level course. C O M M 490 cannot be used to meet this requirement.

Pass/No Pass. Availability of Pass/No Pass credit in communication studies courses is at the discretion of the course director and/or instructor of the course. Although the department discourages Pass/No Pass credit for majors, up to 6 hours of Pass/No Pass credit may be applied to the major requirements. Up to 6 hours Pass/No Pass credit is permitted toward the minor subject to the approval of the department granting the major. Request forms are available in the Arts and Sciences Advising Center, 107 Oldfather Hall.

Requirements for the Major in Communication Studies

All prospective majors must consult and register with a departmental chief adviser. M ajors are expected to meet regularly with their adviser. An approved program of study must be filed at the time students declare the major or within the first 12 hours of course work in the major. In order to graduate with a communication studies major, students must have an approved program of study with the minimum number of hours for a major in communication studies is 34. The 34-hour requirement must include the following:

1. M ajors must complete one of the following: C O M M 109, 209, 212 or 311.
2. M ajors must complete both C O M M 200 and 201. These courses should be completed within the first two semesters of communication studies of a student’s program.
3. M ajors must complete C O M M 488.
4. A minimum of 19 hours must be taken in communication studies courses at or above the 300 level, excluding C O M M 311, 390 and 490.
5. O f the 19 hours at least 7 must be at the 400 level. C O M M 200 and 201 must be completed before a student can enroll in any 400-level course. C O M M 490 cannot be used to meet this requirement.

Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required to complete a program portfolio. The undergraduate adviser will provide each major with an instruction sheet outlining the required contents of the portfolio, deadlines, and procedures.

Results of participation in this assessment activity will in no way affect a student’s GPA, but could prevent or delay graduation if the portfolio program is not completed as required.

Pass/No Pass. Availability of Pass/No Pass credit in communication studies courses is at the discretion of the course director and/or instructor of the course. Although the department discourages Pass/No Pass credit for majors, up to 6 hours of Pass/No Pass credit may be applied to the major requirements. Up to 6 hours Pass/No Pass credit is permitted toward the minor subject to the approval of the department granting the major. Request forms are available in the Arts and Sciences Advising Center, 107 Oldfather Hall.

Requirements for the Minor in Communication Studies

Plan A. This minor consists of a minimum of 18 hours in communication studies courses with at least 9 hours at or above the 300 level. The 18-hour requirement must include the following:

1. M ajors must complete both C O M M 200 and 201.
2. M ajors must complete both C O M M 320 and 321.
3. A minimum of 9 hours must be taken in communication studies courses at or above the 300 level excluding C O M M 311, 390 and 490.
4. O f the 9 hours at least 3 must be at the 400 level. C O M M 200 and 201 must be completed before a student can enroll in any 400-level course. C O M M 490 cannot be used to meet this requirement.

Pass/No Pass. Availability of Pass/No Pass credit in communication studies courses is at the discretion of the course director and/or instructor of the course. Although the department discourages Pass/No Pass credit for majors, up to 6 hours of Pass/No Pass credit may be applied to the major requirements. Up to 6 hours Pass/No Pass credit is permitted toward the minor subject to the approval of the department granting the major. Request forms are available in the Arts and Sciences Advising Center, 107 Oldfather Hall.

Requirements for the Major in Communication Studies

All prospective majors must consult and register with a departmental chief adviser. M ajors are expected to meet regularly with their adviser. An approved program of study must be filed at the time students declare the major or within the first 12 hours of course work in the major. In order to graduate with a communication studies major, students must have an approved program of study with the minimum number of hours for a major in communication studies is 34. The 34-hour requirement must include the following:

1. M ajors must complete one of the following: C O M M 109, 209, 212 or 311.
2. M ajors must complete both C O M M 200 and 201. These courses should be completed within the first two semesters of communication studies of a student’s program.
3. M ajors must complete C O M M 488.
4. A minimum of 19 hours must be taken in communication studies courses at or above the 300 level, excluding C O M M 311, 390 and 490.
5. O f the 19 hours at least 7 must be at the 400 level. C O M M 200 and 201 must be completed before a student can enroll in any 400-level course. C O M M 490 cannot be used to meet this requirement.
5. The department encourages qualified students to engage in internship and independent study in order to supplement classroom experiences. However, neither an internship nor an independent study is a substitute for classroom experiences. No more than 3 hours of internship or independent study may count toward the 18-credit-hour minor requirement.

Plan B. 12 hours of communication studies courses with at least 9 hours at or above the 200 level, excluding 390 or 490. A maximum of 3 hours of internship or independent study may apply to the 12-hour requirement.

Public Relations. An emphasis program with the cooperation of the College of Journalism and Mass Communications. Students may apply to receive an emphasis in public relations by completing specific requirements. Communication students must also minor in marketing. There is an application process and admittance to the emphasis is limited. See Communications Studies Adviser for details.

Independent Study. Before registering for an independent study, students must consult with and gain the approval of a faculty member with whom they wish to work.

Internships. We encourage students to do internships that apply to the major. There are very specific requirements that must be met before an internship can be approved. Students must meet with a communication studies adviser to determine if they meet the internship requirements.

Graduate Work. Graduate programs leading to the master of arts and doctor of philosophy degrees are offered in the department. A master of arts specialization in marketing communication studies and advertising is also offered by the department. A detailed description of these programs appears in the Graduate Studies Bulletin.

Courses of Instruction (COMM)

[ES][IS] 109H. Honors Fundamentals of Human Communication (3 cr) Prereq: Good standing in the University Honors Program or by invitation. Theory and practice in communication, including discussions and practical experiences in communication process, language, self-concept, perception, interviewing, group communication, audience analysis, public speaking, feedback, and listening. Students conduct evaluative critiques, engage in mock interviews, and maintain progress journals.

[ES][IS] 201H. University Honors Seminar (3 cr) Prereq: Admission to the University Honors Program or by invitation. University Honors Seminar 201H is required of all students in the University Honors Program. Topic varies.

[ES][IS] 109. Fundamentals of Human Communication (3 cr) Prereq: Freshman-sophomore level; juniors and seniors by permission only. Theory and practice in communication, including discussions and practical experiences in communication process, language, self-concept, perception, interviewing, group communication, audience analysis, public speaking, feedback, and listening. Students conduct evaluative critiques, engage in mock interviews and maintain progress journals.

[IS] 200. Introduction to Communication Studies (3 cr) Prereq: Freshman-sophomore level; juniors and seniors by permission only. Theory and practice in communication, including discussions and practical experiences in communication process, language, self-concept, perception, interviewing, group communication, audience analysis, public speaking, feedback, and listening. Students conduct evaluative critiques, engage in mock interviews and maintain progress journals.

[IS] 201. Introduction to Research Methods in Communication Studies (3 cr) Prereq: Freshman-sophomore level; juniors and seniors by permission only. Theory and practice in communication, including discussions and practical experiences in communication process, language, self-concept, perception, interviewing, group communication, audience analysis, public speaking, feedback, and listening. Students conduct evaluative critiques, engage in mock interviews and maintain progress journals.

[IS] 202. Introduction to Broadcasting (3 cr) Prereq: Sophomore standing or 2.0 GPA; or freshman standing, COMM 200 and 201, or permission. Theory and practice of broadcasting. Leading to effective extemporaneous speaking. Critical analysis of contemporary speeches on key issues.

[IS] 204. Political Communication (3 cr) Prereq: Sophomore standing or 2.0 GPA; or freshman standing, COMM 200 and 201, or permission. Theory and practice of broadcasting. Leading to effective extemporaneous speaking. Critical analysis of contemporary speeches on key issues.

[IS] 205. Performance of Literature (3 cr) Prereq: Sophomore standing or 2.0 GPA; or freshman standing, COMM 200 and 201, or permission. Theory and practice of broadcasting. Leading to effective extemporaneous speaking. Critical analysis of contemporary speeches on key issues.

[IS] 206. Performance of Literature (3 cr) Prereq: Sophomore standing or 2.0 GPA; or freshman standing, COMM 200 and 201, or permission. Theory and practice of broadcasting. Leading to effective extemporaneous speaking. Critical analysis of contemporary speeches on key issues.

[IS] 207. Performance of Literature (3 cr) Prereq: Sophomore standing or 2.0 GPA; or freshman standing, COMM 200 and 201, or permission. Theory and practice of broadcasting. Leading to effective extemporaneous speaking. Critical analysis of contemporary speeches on key issues.

[IS] 208. Performance of Literature (3 cr) Prereq: Sophomore standing or 2.0 GPA; or freshman standing, COMM 200 and 201, or permission. Theory and practice of broadcasting. Leading to effective extemporaneous speaking. Critical analysis of contemporary speeches on key issues.

[IS] 209. Public Speaking (3 cr) Prereq: Sophomore standing or 2.0 GPA; or freshman standing, COMM 200 and 201, or permission. Theory and practice of broadcasting. Leading to effective extemporaneous speaking. Critical analysis of contemporary speeches on key issues.

[IS] 210. Small Group Problem Solving (3 cr) Prereq: Sophomore standing or 2.0 GPA; or freshman standing, COMM 200 and 201, or permission. Theory and practice of broadcasting. Leading to effective extemporaneous speaking. Critical analysis of contemporary speeches on key issues.

[IS] 211. Intercultural Communication (ETHN 211) (3 cr) Exploration of culture as a dimension of all communicative activity. Communication between cultural groups in a variety of contexts, including the economy, religion, groups, organizations, politics, and international relations.


[IS] 220. Introduction to Public Discourse (3 cr) Prereq: Sophomore standing or permission. Introduction to the historical and critical examination of significant persuasive efforts in American history. Emphasis on speakers and writers who engaged in advocacy of sociopolitical importance, including representatives of important social movements, demagogues, elected officials, and others who defined our rhetorical legacy.

[IS] 226. Introduction to Broadcasting (BR DC 226) (3 cr) Prereq: Sophomore standing and 2.0 GPA; or freshman standing, broadcasting major, and 3.0 GPA; or permission. Required of broadcasting majors. Development of the American system of broadcasting and the telecommunications industry.

[IS] 280. Communication and Popular Culture (3 cr) Prereq: Sophomore standing or permission. Introduction to communication and popular culture, e.g., television, music, film, popular literature, "self-help" literature, etc., using rhetorical and critical methods of analysis to understand the communicative dimension of these cultural forms to explore the complexities of the principles, values, images, mediated communication, and cultural values.


[IS] 309H. Honors Fundamentals of Human Communication (3 cr) Prereq: Freshman-sophomore level; juniors and seniors by permission only. Theory and practice in communication, including discussions and practical experiences in communication process, language, self-concept, perception, interviewing, group communication, audience analysis, public speaking, feedback, and listening. Students conduct evaluative critiques, engage in mock interviews and maintain progress journals.


[IS] 313. University Honors Seminar (1-6 cr, max 6) Prereq: Permission. Structured professional experience for training instructor assistants to tutor, evaluate communication activities, and do other instructional assistance for communication studies coursework.


Community and Regional Planning

(Minor Only)

Coordinator: Anne Kopeka, 107 Oldfather Hall

Community and regional planning is an interdisciplinary field that influences a broad range of future-oriented decision making. A minor in community and regional planning will be useful for students who wish to pursue careers related to planning or who wish to pursue graduate study in community and regional planning.

Majors in the College of Arts and Sciences that are related to planning include anthropology, economics, environmental studies, ethnic studies, geography, geology, Great Plains studies, political science, and sociology, among others. Many professional positions in public, private, and nonprofit organizations involve knowledge and skills in community and regional planning. UNL offers the mater of community and regional planning (MCRP) degree program, which prepares students for professional planning practice. The MCRP degree program is described in the Graduate Bulletin and the College of Architecture section of the Undergraduate Bulletin. Completion of CR PL 400 in the minor fulfills the course content requirement of CR PL 800 for the MCRP degree; however, 48 credit hours still must be completed at the graduate level for the MCRP degree.

Pass/No Pass. Not allowed for the required planning course (CR PL 400).

Requirements for the Minor in Community and Regional Planning

The minor in community and regional planning requires 18 credit hours. Two foundation courses, one each from Group A and Group B, are required. These courses fulfill two of the three course prerequisites for the MCRP degree program. The remaining 12 credit hours of the minor, including one required course (CR PL 400), are completed in community and regional planning.

Foundation Courses (6 cr required)

At least three credit hours from Group A and at least three credit hours from Group B are required for the minor.

Group A

Economics
ECON 243. Introduction to Economics (5 cr)
ECON 211. Principles of Microeconomics (3 cr)
ECON 312. Principles of Macroeconomics (3 cr)
ECON 311. Intermediate Microeconomics (3 cr)
ECON 312. Intermediate Macroeconomics (3 cr)
ECON 340. Introduction to Urban Regional Economics (3 cr)
ECON 450. Regional Development (3 cr)

Agricultural Economics
AECN 141. Introduction to the Economics of Agriculture (3 cr)

Group B

Agricultural Economics
AECN 276. Rural Sociology (SO CL 241) (3 cr)

Anthropology
ANTH 130. Anthropology of the Great Plains (3 cr)
ANTH 212. Intro to Cultural Anthropology (ETHN 212) (3 cr)
ANTH 412. Social Structure (3 cr)
ANTH 416. Topics in Cultural Anthropology (3 cr) (topic(s) as appropriate)

GEOG 473. Ecological Anthropology (3 cr)

Planning
GEOG 140. Introductory Human Geography (3 cr)
GEOG 361. Urban Geography (3 cr)
GEOG 406. Spatial and Environmental Influences in Social Systems (3 cr)

Great Plains Studies
GPSP 170. Intro to Great Plains Studies (ANTH GEO G NR ES SO CL 170) (3 cr)

Sociology
SOC 101. Intro to Sociology (3 cr)
SOC 201. Social Problems (3 cr)
SOC 205. Intro to Social Research I (3 cr)
SOC 217. Naturalism & Race Relations (ETHN 217) (3 cr)
SOC 241. Rural Sociology (AECN 276) (3 cr)
SOC 242. Urban Sociology (3 cr)
SOC 415. Social Change (3 cr)
SOC 441. Social Psychology (3 cr)
SOC 444. Social Demography (3 cr)
SOC 446. Environmental Sociology (3 cr)
SOC 450. Social Institutions (3 cr)
SOC 480. Social Inequality: Stratification & Life Chances (3 cr)
SOC 481. Minorities Groups (ETHN 481) (3 cr)
SOC 491. Political Sociology (3 cr)

Planning Courses (12 cr min required)

Required Course (3 cr)
CR PL 400. Intro to Planning (3 cr)

Supporting Courses (6 cr min)
CR PL 405. The Community & the Future (3 cr)
CR PL 420. Grant Writing & Fundraising (3 cr)
CR PL 431. Computer Graphics & Applications in Physical & Environmental Planning (3 cr)
CR PL 450. Social Planning & Policy (3 cr)
CR PL 460. Planning & Design in the Built Environment (3 cr)
CR PL 470. Environmental Planning & Policy (3 cr)
CR PL 475. Water Quality Strategy (AGRO C IV GEOL SYM POLS 475) (3 cr)
CR PL 477. Recreation & Park Planning (3 cr)
CR PL 480. Economic Development Planning (3 cr)
CR PL 481. Planning in Developing Countries (3 cr)
CR PL 495. Selected Topics in Community & Regional Planning (3 cr)
CR PL 496. Special Problems in Community & Regional Planning (3 cr)
Computer Science and Engineering

Chair: Richard F. Sincovec, 256 Avery Hall
Chief Undergraduate Adviser: Charles R. Jodrasel
Professors: Degen, Dwyer, Jiang, R. Kchenbach, Reeves, Rothermel, Seth, Sincovec, Surkan
Associate Professors: Choueiry, Elbaum, Goddard, Henniger, A. Manamunr, Samal, Scott
Assistant Professors: Cohen, H. Chistain, L., Soh, Srisa-An, Veniam, X. U
Research Assistant Professor: Swanson
Senior Lecturer: R. Jodrasel
Lecturer: Costello
Phone: (402) 472-2401
FAX: (402) 472-7767
http://cs.unl.edu
email: info@cs.unl.edu

The University of Nebraska, Lincoln (UNL) Computer Science and Engineering (CSE) Department offers Nebraska's only comprehensive program of higher education, research, and service outreach in computer science and computer engineering.

The CSE Department offers a challenging baccalaureate degree program in computer science that prepares graduates for professional practice as computer scientists. The program provides the basis for advanced studies in the field, and establishes a foundation for lifelong learning and achievement.

Graduates are proficient scientists able to solve computer science problems. The program develops:

- current knowledge with breadth and depth including algorithms, data structures, software design, programming language concepts, and computer organization and architecture;
- foundational understanding of the mathematics and sciences for computer science; and
- theoretical foundations, analytical abilities, and design skills for solving computer science problems.

Graduates are broadly educated professionals able to contribute productively in organizational and societal contexts. The program develops:

- knowledge of human behaviors, organizations, histories, and cultures including the arts and humanities;
- abilities to integrate broad knowledge in the intellectual pursuits that are the hallmarks of an educated person—writing, speaking, and critical thinking; and
- understanding of ethical, organizational, and societal demands of the computer science professional and abilities to meet these demands over a professional lifetime.

The CSE Department also offers a degree of bachelor of science in computer engineering through the College of Engineering. (See "Department of Computer Science and Engineering" on page 299.) All students majoring in the CSE Department should see their advisers during their first semester to make sure they understand the differences in the requirements of the two programs. Majors must consult with their advisers each semester for registration advising.

Graduate Programs. The CSE Department offers several graduate degree programs master of science in computer science, master of science with computer engineering specialization, master of science in computer science with biocomputational specialization, doctor of philosophy in computer science, doctor of philosophy in engineering with computer engineering specialization, doctor of philosophy in computer science with biocomputational specialization, and a doctor of philosophy in information technology. See the Graduate Studies Bulletin for details.

Pass/No Pass. Departmental permission to take major or minor courses for Pass/No Pass credit must be obtained. Request forms are available in the Arts and Sciences Advising Center, 107 Oldfather Hall.

Requirements for the Major in Computer Science

The computer science program requires 44 hours of computer science, 16 hours of mathematics, 12 hours of science, and a Plan A minor required for the degree. See your adviser for more information.

Students who wish to take a cohesive block of courses that crosses departmental or even college lines should consider the Individualized Program of Studies minor offered by the College of Business Administration.

The 44 hours (at least 13 of which must be at the 400 level for students not in the J. D. Edwards Program) of computer science include Core Courses, Depth Courses, Technical Electives, and a Senior Design experience as detailed below:

Computer Science Core (22-25 hours)

- Regular Core Courses Block: CSCE 155, 156, 230, 230L, 235, 251, 310, 322, and 361, or

Depth Courses (6 hours)

- CSCE 351 or CSCE 451, and
- CSCE 423 or CSCE 428

Technical Electives (9-12 hours)

- Any CSCE/JDEP 300- or 400-level course except the following:
  - CSCE 390 or 490, and
  - JDEP courses lacking CSCE equivalents (JDEP 301H, 302H, 384H, 401H, and 402H are acceptable as technical electives)
- U to 3 hours of CSCE 491 can be used for technical electives, and an additional 3 hours can be used toward the 125 hours required for the degree.
- At most one of MATH 428, 432, 433, 439, 450, 452

Senior Design Experience (4 hours)

- CSCE 486 and 487 taken in consecutive semesters, or
- JDEP 381H and/or 382H and 402H

The 16 hours of mathematics are MATH 106, 107, 314, and STAT 380. Joint mathematics and computer science majors who take any two 400-level MATH courses that are listed in the Technical Electives for Computer Science may apply one of those courses toward both majors.

The 12 hours of science must be in courses intended for science/engineering majors and must include at least two laboratories in a single science discipline. The CSE Department has identified the following five disciplines with their acceptable courses.

- Chemistry: CHEM 109, 110, 221 (or 113, 114, 116)
- Physics and Astronomy: PHYS 211, 221, 212, 222, 213, 223, AST 204, 224
- Biological Sciences: BIO 102, 103, 109, 111, 112, 121, 205, 206, 207
- Geological Sciences: GEO 101, 103H, 210, 212, 213, M ETH 200, 255, 351
- Anthropology: ANTH 242, 242L

NOTE: Bold face type indicates a lab course or that a lab is included with the course.

Students may petition for substitutions. Substitution forms are available at the department office.

Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required in their senior year:

1. To complete a one-hour knowledge-based multiple choice test.
2. To complete a written exit survey.

The undergraduate adviser will inform students of the scheduling and format of assessment activities. Results of participation in these assessment activities will in no way affect a student's GPA or graduation.

Focus

A computer science major has the option of declaring a Focus in one of the areas listed below. Students who, in addition to meeting all computer science requirements listed above, receive a grade of C or better in each of three courses from one area below will receive a notice from the Department of Computer Science and Engineering stating that they received the degree of bachelor of science in computer science with a Focus in their chosen area. The Focus areas are as follows:

- Informatics: CSCE 410, 413, 464, 470, 471, 472, 473, 474
- Artificial Intelligence: CSCE 475, 476, 478, 479
- Computer and Networking Systems: CSCE 430, 432, 434, 435, 455, 456, 462
- Foundations: CSCE 340, 421, 423, 424, 428, 477

In addition, up to 3 hours of CSCE 498 Computer Problems (undergraduate research) can be used in any focus area. Some offerings of CSCE 496 Special Topics may be substituted in an appropriate area. See your adviser for more details.

A Focus is in addition to all major requirements. Thus no course used by a student to fulfill a major requirement can be applied to a Focus.

Customized Focus Areas are also possible. The department chair, in consultation with relevant faculty members and the undergraduate adviser, may approve a customized Focus Area proposed by a student. See your adviser for more information.

To declare a Focus, see your adviser.
Requirements for the Minor in Computer Science

- 18 hours of computer science courses and either MATH 104 or 106. The computer science courses must include CSCE 155, 156, or a combination of CSCE 230D or JDEP 184H, 184L, and 284H (12 hours). The remaining 6 or 7 hours must include at least 3 hours from JDEP 283H or any 300- or 400-level CSCE or JDEP course except CSCE 390, CSCE 490, and JDEP courses lacking CSCE equivalency (JDEP 301H, 302H, 384H, 401H and 402H apply to this requirement).

Courses of Instruction (CSCE)

CSCE 155 is the first course for students majoring or minoring in computer science or computer engineering and for students in other fields who plan to take additional CSCE courses. Students majoring in other science or engineering disciplines who do not plan to take additional CSCE courses. CSCE 105 is for students seeking a general introductory course and/or preparation for CSCE 155. CSCE 156 is for advanced students with experience in object-oriented design and programming, CSCE 101 and 102, and for students seeking a broad introduction to computing which meets the General Education requirement for a laboratory course in Science and Technology) with only brief instruction in computer programming.

Computer Science Placement Policy. The required Computer Science and Engineering Placement Exam (CSEPE) is used to assess students' background in problem solving, computer programming, and relevant mathematics. Results of the CSEPE recommend placement in CSCE 105, CSCE 155, or CSCE 156. Students who have not taken a recognized UNL or transfer prerequisite course with a grade of C or better must take the CSEPE.

(ES) 101 Basics of Computing (3 cr) Lec 3. Intended for non-CSCE majors who desire a deeper understanding of computers and the work of computer scientists. CSCE 101 is suitable for non-CSCE majors and prospective CSCE majors.

(ES) 106 Fundamentals of Computing Laboratory (1 cr) Lab 3. Prereq: CSCE 101 or parallel I. It is not correct towards the requirements for a major in minor in computer science and computer engineering.

A variety of computer oriented exercises using many software tools is presented which supplement and are coordinated with the topics taught in CSCE 101. Students are exposed to programming, operating systems, simulation software, spreadsheets, database software, the Internet, etc. Applications software introduced in the context of tools to explore the computer science topics and as alternatives to traditional programming languages. Emphasis on learning by experiment, with a goal of developing problem solving skills.

(ES) 105 Introduction to Problem Solving with Computers (3 cr) Lec 3. Prereq: 4 years high school mathematics. CSCE 105 is intended to develop skills in programming and problem solving to prepare for CSCE 155.

Problem solving with a computer and programming fundamentals include: a high-level language, mathematics, logic, and algorithms. Logic and functions that apply to computer science, elementary programming constructs, type, and algorithmic techniques.

(ES) 150 Introduction to Computer Programming for Scientists and Engineers (3 cr) Lec 3. Prereq: High school mathematics. CS 150 teaches the fundamentals of computer programming (HTML, JavaScript, Python, etc). The course provides an introduction to computer science, basic programming concepts, and problem-solving techniques.

(ES) 152C, 152D, 152E Honors Computer Organization (3 cr) Lec 3. Prereq: CSCE 150 or 154. CSCE 152 covers the fundamentals of computer organization and machine architecture. CSCE 152E covers the same topics as CSCE 152, but in greater depth.

For course description, see CSCE 230.

(ES) 230L Organization Laboratory (1 cr) Lab 3. Prereq: Grade of "C" or better or 152L. CSCE 230L is a problem-oriented laboratory course. The course introduces the student to computer-aided tools to practice and reinforce of concepts and techniques learned in CSCE 230 or 230H.

Algorithms and arithmetic for digital logic design.

(ES) 251 Unix Programming Environment (1 cr) Lec 1, 1. Prereq: Familiarity with at least one high-level programming language.

Introduction to the Unix operating system. Unix file system. Unix tools and utilities Shell programming.

(ES) 252D FORTRAN Programming II (1 cr) Lab 1. Prereq: Familiarity with one high-level programming language. C, C++, or Fortran can be used.

Advanced data structures and algorithms that solve common problems and related applications, solving new problems. Analysis and comparison of algorithms, asymptotic notation and proofs of correctness. Discrete mathematics as foundation for analysis.

(ES) 255H Honors Foundations of Computer Science (JDEP 283H) (3 cr) Lec 3, 3. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program.

Introduction to fundamental organization and structure of computer systems. Read and write logic, data representation, processor organization, input/output, memory organization, system support software and communication.

(ES) 290 Special Topics in Computer Science (1-3 cr, max 6) Prereq: Permission. CSCE 290 will not count towards a major or minor in computer science and computer engineering.

Apects of computers and computing for non-computer science and computer engineering majors and/or minors. Topics vary.

(ES) 295H Honors Foundations of Computer Systems (JDEP 284H) (4 cr) Lec 4, 4. Prereq: Grade of "C" or better in CSCE 150 or 154.

Introduction to fundamental organization and structure of computer systems. Read and write logic, data representation, processor organization, input/output, memory organization, system support software and communication.

(ES) 295H Honors Foundations of Computer Systems (JDEP 284H) (4 cr) Lec 4, 4. Prereq: Grade of "C" or better in CSCE 150 or 154.

Introduction to fundamental organization and structure of computer systems. Read and write logic, data representation, processor organization, input/output, memory organization, system support software and communication.

(ES) 295H Honors Foundations of Computer Systems (JDEP 284H) (4 cr) Lec 4, 4. Prereq: Grade of "C" or better in CSCE 150 or 154.

Introduction to fundamental organization and structure of computer systems. Read and write logic, data representation, processor organization, input/output, memory organization, system support software and communication.

(ES) 295H Honors Foundations of Computer Systems (JDEP 284H) (4 cr) Lec 4, 4. Prereq: Grade of "C" or better in CSCE 150 or 154.

Introduction to fundamental organization and structure of computer systems. Read and write logic, data representation, processor organization, input/output, memory organization, system support software and communication.

(ES) 295H Honors Foundations of Computer Systems (JDEP 284H) (4 cr) Lec 4, 4. Prereq: Grade of "C" or better in CSCE 150 or 154.

Introduction to fundamental organization and structure of computer systems. Read and write logic, data representation, processor organization, input/output, memory organization, system support software and communication.
310. Data Structures and Algorithms (3 cr) Lec 3, Prereq: Grade of "B" or better in CSCE 150/150H or 156/156H and 235. Theoretical concepts with programming assignments. Algorithm analysis, asymptotic notation, and solving recurrence relations. Data structures with applications to algorithms, and algorithmic techniques, randomization, divide and conquer, greedy algorithms, dynamic programming, and distributed algorithms. Introduction to computability and NP-completeness.

322. Programming Language Concepts (3 cr) Lec 3, Prereq: Grade of "P" or better in CSCE 150 or 155/155H, MATH 208/208H, and ELEC 121 or CSCE 230. List processing, string processing, and other types of high-level programming languages. Fundamental concepts of data types, control structures, operations, and programming environments of languages. Abstract syntax, formal specification, and comparison of language extensions. Effects of finite precision.


361. Software Engineering (3 cr) Lec 3, Prereq: Grade of "P" or better in CSCE 310. CSCE 361 requires participation in a group design and implementation of a software project. Techniques used in the disciplined development of large-scale software projects. Software requirements analysis and specifications, program design, coding and testing, inspection, and software maintenance. Software estimation techniques, design tools, and complexity metrics.

375. Human-Computer Interaction (3 cr) Lec 3. CSCE 350. This introductory course is designed for computer science and computer engineering majors and others interested in the principles of human-computer interaction. The course covers the cognitive and social aspects of human-computer interaction, including user-centered design, usability evaluation, and the role of technology in society.

401H. Honors JDEP Design Studio III (3 cr) LEC, JDEP 300H. Prereq: Grade of "B" or better in the University Honors Program or by invitation. The J. D. Edwards Program is a professional practice experience in the field of software engineering. Students work on a project that includes all aspects of software engineering, from requirements analysis to system testing and deployment.

402H. Honors JDEP Design Studio IV (3 cr) LEC, JDEP 300H. Prereq: Grade of "B" or better in the University Honors Program or by invitation. The J. D. Edwards Program is a professional practice experience in the field of software engineering. Students work on a project that includes all aspects of software engineering, from requirements analysis to system testing and deployment.


413. Database Systems (3 cr) Lec 3. Prereq: CSCE 310, 313, or permission. The introduction to database systems. The database design, implementation, and management concepts. The organization and structure of database systems. The database administration, cluster programming, and grid computing.


441/442, 841/842. System Administration (3 cr) Lec 3. Prereq: CSCE 435/835. The system administration. The system administration.


456. Parallel Programming (3 cr) Lec 3. Prereq: CSCE 350 or 451/851. The introduction to the fundamentals of parallel computation and applied algorithm design. The introduction to the fundamentals of parallel computation and applied algorithm design.

457. System Administration (3 cr) Lec 3. Prereq: A programming language, MATH 221 and 314. The system administration. The system administration.


High performance computing at the processor level. The high performance computing at the processor level. The high performance computing at the processor level.

465/865. Introduction to Mathematical Logic I (MAT 465/865) (3 cr). For course description, see MAT 465/865.


470/870. Computer Graphics (3 cr) Lec 3. Prereq: CSCE 310 and MAT 430. Display and rendering devices; incremental plotter systems; vector, and character generation; grey scale displays, digitizers and scanners, digital images, interactive and passive 3-D graphics; pattern recognition; data structures and graphics software; the mathematics of three dimensions, homogeneous coordinates, projections and the hidden-line problem.

473/873. Introduction to Bioinformatics (3 cr) Lec 3. Prereq: CSCE 310, STAT/MATH 380 or 580. Fundamentals and trends in bioinformatics. Scoring matrices and pairwise sequence alignments via dynamic programming, BLAST, and other heuristics. Multiple sequence alignments. Applications of machine learning methods such as hidden Markov models and support vector machines to biological problems including family modeling and phylogeny.

472/872. Digital Image Processing (3 cr) Lec 3. Prereq: CSCE 156 or permission. Digital imaging systems, digital image processing, and low-level computer vision. Data structures, algorithms, and system analysis and modeling of digital image formation and presentation, image statistics and descriptions, operations and transforms, and system simulation. Applications include system design, restoration and enhancement, reconstruction and geometric manipulation, compression, and low-level processing for computer vision.

474/874. Introduction to Data Mining (3 cr) Lec 3. Prereq: CSCE 310, STAT/MATH 380 or 580, STAT 380. 474/874 require the completion of a project involving the application of data mining techniques to real world problems. Data mining and knowledge discovery methods and their application to real-world problems. Algorithmic and systems issues. Statistical foundations, association discovery, classification, prediction, clustering, spatial data mining and advanced techniques.

475/875. Multiagent Systems (3 cr) Lec 3. Prereq: CSCE 310. Distributed problem solving and planning, search algorithms for agents, distributed rational decision making, learning multiagent systems, computational organization theory, formal methods in Distributed Artificial Intelligence, multiagent negotiations, emergent behaviors (such as ants and worms), and Robocup technologies and real-time coalition formation.

476/876. Introduction to Artificial Intelligence (3 cr) Lec 3. Prereq: CSCE 310. Introduction to basic principles, techniques, and tools now being used in the area of machine intelligence. Languages for AI programming introduced with emphasis on LISP. Lecture topics include problem solving, search, game playing, knowledge representation, expert systems, and applications.

477/877. Cryptography and Computer Security (3 cr) Lec 3. Prereq: CSCE 310, MAT 314, 318 or 314. or equivalent. Introduction to the principles of cryptography and computer security. Topics include cryptographic principles, substitution ciphers, Hill cipher, and one-time pad; block ciphers and stream ciphers; symmetric and public-key cryptosystems; digital signatures; key exchange; management and identification protocols. 477/877. Cryptography and Computer Security (3 cr) Lec 3. Prereq: CSCE 310, MAT 314, 318 or 314. or equivalent. Introduction to the principles of cryptography and computer security. Topics include cryptographic principles, substitution ciphers, Hill cipher, and one-time pad; block ciphers and stream ciphers; symmetric and public-key cryptosystems; digital signatures; key exchange; management and identification protocols.


479/879. Introduction to Neural Networks (3 cr) Lec 3. Prereq: CSCE 310. Introduction to the concepts, design and application of connectionist computing. Choice between artificial neural networks, focusing on competing alternative network architectures, including sparse distributed memories, Hopfield networks, and the multilayered feed-forward systems. Construction and improvement of algorithms used for training of neural networks addressed to reduce training time and improve generalization. Algorithms for training and synthesizing effective network implemented in high level languages. Running on conventional computers. Emphasis on methods for synthesizing and simplifying network architectures for improved generalization. Applications are given: pattern recognition, computer vision, robotics, medical diagnosis, weather and economic forecasting.

486. Computer Science Professional Development (1 cr) Lec 3. Prereq: CSCE 486. This course must be taken each semester before CSCE 487. Preparation for the senior design project. Professional practice through presentations, discussions, and workshops on computer science, project management, professional development, professional standards, practices and ethics, and the oral and written report styles used specifically in the field of computer science.

15. Computer Science Senior Design (Project) (3 cr) Lec 3. Prereq: Senior standing; CSCE 380 or CSCE 486. CSCE 487 uses the team approach to undertake a substantial, broadly-defined project requiring aggregation of the technical and analytical skills learned in other CSCE courses.

488. Computer Engineering Professional Development (2 cr) Lec 2. Prereq: CSCE 480, CSCE 362 and 476, or parallel: CSCE 362 and parallel: CSCE 480. CSCE 480 and 488 are a sequence of courses that are to be taken in sequential terms. Professional practice in team project development, current tools, resources, and technologies, professional standards, practices, and ethics, and oral and written report styles used in the computer engineering field.

489. Computer Engineering Senior Design Project (2 cr) Lec 3. Prereq: Senior standing; CSCE 380, or parallel: CSCE 480 and 488. Admission to the College of Engineering. CSCE 488 must be taken first and in the term prior to registering for CSCE 489. Permission must be obtained to take CSCE 488 and 489. Also, one of the following courses must be taken first and in the term prior to registering for CSCE 489. Admission to the College of Engineering. CSCE 488, CSCE 489, or CSCE 488 and 489 are a sequence of courses that are to be taken in sequential terms. Professional practice in team project development, current tools, resources, and technologies, professional standards, practices, and ethics, and oral and written report styles used in the computer engineering field.

490. Special Topics in Computer Science (1-3 cr, max 6) Prereq: Permission. CSCE 490 will not count towards a major or minor in computer science or computer engineering. A course in topics with significant emphasis on a particular field or current research. May be taken once for credit in a topic not already offered in other CSCE courses.

491. Internship in Computing Practice (1-3 cr, max 6) Prereq: CSCE 310 and permission. CSCE 491 requires a detailed project proposal and final report. Experiential learning in conjunction with an approved industry or government entity under the joint supervision of an outside sponsor and a faculty advisor.

496/896. Special Topics in Computer Science (1-3 cr, max 6) per sem, max 24) Prereq: Senior or graduate standing. A course in topics with significant emphasis on a particular field or current research. May be taken once for credit in a topic not already offered in other CSCE courses.

498. Honors Special Topics in Computer Science (1-3 cr, max 6) Prereq: Senior or Graduate standing. A course in topics with significant emphasis on a particular field or current research. May be taken once for credit in a topic not already offered in other CSCE courses.


Refrer to the Graduate Bulletin for 900-level courses.

Conflict and Conflict Resolution Studies

(Minor only)

Chair and Chief Adviser: TBA
Faculty: Avery (political science), Cahan (philosophy), Dement (anthropology and geography), Leger (psychology), M. Ames (anthropology), M. Miller (political science), Potter (philosophy)

This program is concerned with violent conflict between social groups—vanng on the biological, ecological, economic, social, and political basis of such conflict and its relationship to religion, philosophy, and the arts. It examines the history of efforts to resolve or prevent violent conflicts through such means as armaments, negotiations, diplomacy, international law, and nonviolent resistance to violence.

Requirements for the Minor in Conflict and Conflict Resolution Studies

The core course in conflict and conflict reso-

lution (cross-listed as ANTH, POLS, PSY C and SO CI 261) is required. In addition, students

must take one course from six of the following

seven groups.

I. Evolution, Human Biology and Warfare

ANTH 353. Anthropology of War
BIO 303. Bioethics
BIO 304. Psychopathology

II. The Social Unit, Aggression and Violence

COMM 371. Communication in Negotiation & Conflict Resolution
HIST 303/803. United States Military History 1607-1917
HIST 304/804. United States Military History Since 1917
PSY C 401. Psychology & Law
SOC 301. Social Problems
SOC 415/815. Social Change
SOC 491/891. Political Sociology

III. International Society

HIST 347. History of United States Foreign Relations since 1899
HIST 348. History of United States Foreign Relations since 1899
POLS 160. International Relations
POLS 468/868. Organizations World Order
POLS 469/869. International Law

IV. History of Warfare and its Impact on States and Within States

AERO 441-442. National Security Forces in Contemporary American Society
HIST 338/538. War & Peace in Europe 1914 to Present
NAV 321. Evolution of Warfare
SOC 217. Nationality & Race Relations
V. Science and Technology: Arms and Arms Control
N A VS 321. Evolution of Warfare
P O LS 398. Arms Racing & Arms Control

VI. Economics and Resource Economics and the Origins of Modern Aggression
AECN 346. World Food Economics
E C O N 423/823. Economics of the Less Developed Countries
G E O G 242. Geographical Background to World Affairs
P O LS 459/459. International Political Economy

VII. Human Cultural Responses to War and its Alternatives
E N G L 210. Themes in Literature
P H I L 220. Elements of Ethics

Substitutions in this program may be made if such substitution can be justified on vocational or intellectual grounds.

A senior seminar will complete the program of 24 hours. Courses that are part of a student's major may be used to satisfy the requirements for a conflict resolution minor.

Dance

(Minor Only)

Coordinator: Lisa Fusillo, 219 Mabel Lee Hall

Any student intending to have a minor in dance must audition and will progress through the technique classes (levels I, II, III, and IV) just like the dance majors. That is, most students begin in level I and are advanced as their skills and repertoire enable them to. Students will repeat levels as necessary.

- 18 hours:
  - DANC 159 Intro to Dance .................................. 3
  - Modern Dance Technique ................................... 6
  - Ballet Technique ............................................. 5
  - must begin with DANC 312
  - DANCE minors must reach level III (DANC 312) in modern dance technique and level II (DANC 211) in ballet technique.

Diversified Agricultural Studies

(Minor only)
Coordinator: Anne Kopera, 107 Oldfather Hall

Requirements for a Minor in Diversified Agricultural Studies (formerly General Agriculture)

- A minimum of 18 hours in courses offered by the College of Agricultural Sciences and Natural Resources including at least one 2- or more-credit-hour course selected from each of three of the following general areas:
  - Agricultural Economics
  - Agricultural Leadership, Education and Communication 102, 202, 494 and 496;
  - food science and technology, mechanized systems management, or soil science.

Animal Sciences (animal science, forestry, fisheries and wildlife or veterinary and biomedical sciences)
Crop and Commodity Protection (entomology; weed science; AGR 1 200; F D S T 403, 405, 406; N R E S 348; M S Y M 342, 364; plant pathology; or V B S 303, 304)
Plant Sciences (agronomy, horticulture, or forestry, fisheries and wildlife)

At least 9 hours of the agricultural courses must be at the 200 level and 6 hours at the 300 level or above. The specific minor program must be prepared in consultation with the Dean's Office of the College of Agricultural Sciences and Natural Resources, Agricultural Hall, and must be approved by the deans of both colleges on a College of Arts and Sciences substitution form available in the Arts and Sciences Advising Center, 107 Oldfather Hall.

Economics

Chair: Scott M. Fuees, Jr., 340 College of Business Administration Building


Associate Professors: Allgood, Cushing, Kim, May, M. A. G. Ave, Thompson, van den Berg

Assistant Professor: Butter

NOTE FOR ECONOMICS MAJORS:
Completion of ECON 311 and 312 is recommended before taking other 300- and 400-level courses. You are required to consult your economics faculty adviser on your courses of 300- and 400-level courses.

Economic analysis is useful in many decisions made by individuals, businesses, nonprofit organizations, and governments. In addition opportunities in teaching, economists are employed in many branches of government and on the staffs of corporations in manufacturing, insurance, banking, brokerage and other financial services. Economists often serve as consultants either individually or in consulting firms. Today's economists deal with problems ranging from monetary and fiscal policy, monopoly and competition, environmental improvement, regional development, urban reconstruction, labor relations, economic development and international business and finance. Economics is also a popular major for students planning to enter professional and graduate programs, particularly in law, foreign service, labor relations, or business administration.

The Department of Economics offers the opportunity for intensive study in 11 specialized economic areas: industrial economics, comparative economic and regional development, economics, economic education, economic history, industrial organization and regulation, international trade and finance, institutional economics, labor economics, monetary economics, and public finance. The course offerings in these areas are described on the following pages.

Some career objectives, study in related areas is advisable. For example, a student planning a career in the foreign service would benefit most from courses in international economics. A prospective corporate lawyer might take courses in industrial organization or public finance. Someone planning to get an MBA should take intermediate microeconomics and macroeconomics. A future urban planner would benefit from a course in regional development. In planning a program of study, students should consult a faculty advisor or talk to any member of the economics faculty who would be glad to make suggestions about complementary courses.

Order of Studies. Students who plan to take only one year of economics are advised to take ECON 211 and 212 or ECON 210 and a 300-level course in economics. These courses would satisfy the 6 hr. Essential Studies requirement. Either ECON 211 and 212 or ECON 210 are prerequisite to most of the courses in the department. Students who major in economics will find it advantageous to take ECON 211 and 212 in their sophomore year.

Graduate Work. The advanced degree of master of arts and doctor of philosophy are offered. For details of these programs see the Graduate Studies Bulletin.

Prerequisites. For all courses in the 300 series, junior standing and ECON 210 or 211 are required with the exception of ECON 375, which has no prerequisite. ECON 211 and 212 are required for 311, 312, 340, 364, 388, and 389. For all courses in the 400 series, except 446 and 447, junior standing and 12 hours in the social sciences including ECON 211 and 212 are required as prerequisites. ECON 210 may be substituted for ECON 211 and 212. Additional prerequisites may be in effect for some courses. See individual course listings.

Pass/No Pass. Departmental permission must be obtained to take major or minor courses for Pass/No Pass credit. Request forms are available in the Arts and Sciences Advising Center, 107 Oldfather Hall.

Requirements for the Major in Economics

An economics major must complete 30 credit hours of economics. These 30 hours must include:

- 18 hours
- 12 hours

ECON 211 Principles of Macroeconomics ........................................... 3
ECON 212 Principles of Macroeconomics ........................................... 3
ECON 215 Statistics ................................................................. 3
ECON 311 Intermediate Macroeconomics ........................................... 3
ECON 312 Intermediate Microeconomics .......................................... 3
ECON 300-400-level courses ....................................................... 6
Economics 400-level courses ....................................................... 9

Total 30

NOTE for economics majors:
* ECON 215 if STAT 218 was completed before declaring economics as a major; otherwise student must take ECON 215.

Completion of ECON 311 and 312 is recommended before taking other 300- and 400-level courses. You are required to consult and obtain approval from your faculty adviser on your choices of 300- and 400-level courses for the major.

Requirements for the Minor in Economics

Plan A: 18 hours
Plan B: 12 hours
Courses of Instruction (ECON)

General Economics and Theory

[ES] 210. Introduction to Economics (5 cr) Prereq: Sophomore standing and above. Recommended for students outside the College of Arts and Sciences. Not for economics majors in the College of Arts and Sciences. Students taking ECON 210 cannot earn credit for ECON 211 and 212. Principles which govern the organization and behavior of modern economic systems include the nature of economics and economic systems; national income, inflation and unemployment; business cycles; money, monetary and fiscal policy; economic growth; the allocation of economic resources; the behavior of consumers and producers in markets; the distribution of income; and the international economy.

[ES] 211 [211x]. Principles of Macroeconomics (3 cr) Prereq: Sophomore standing or above. Required for students in the College of Business Administration and for economics majors in the College of Arts and Sciences, or permission. Students taking ECON 211 and/or 212 may not earn credit for ECON 210. Introduction to the nature and methods of economics. Includes measurement and analysis of aggregate variables, such as national income, consumption, saving, investment, international payments, employment, price indexes, and interrelated supply and interest rates. Fiscal, monetary, and other policies for macroeconomic stabilization and growth evaluated.

[ES] 212 [212x]. Principles of Microeconomics (3 cr) Prereq: Sophomore standing. Required for College of Business Administration major and for Arts and Sciences economics major. Credit toward degree cannot be earned in both ECON 210 and in ECON 211 and/or 212.

Continuation of introduction to economic methods with emphasis on analysis and evaluation of markets. Includes demand and supply, price rationing, cost, consumption utility, monopoly, competition, monopolistic competition, oligopoly, allocative and technical efficiency, and income distribution. Analysis of taxes, unions, antitrust laws, agriculture, international trade, and to other economic problems and policies.

311. Intermediate Macroeconomics (3 cr) Prereq: ECON 211 and 212; ECON 215 or equivalent; MATH 104 or equivalent. Extensions and elaboration of theories of aggregate production, consumption, savings, and investment, and international trade and finance. Detailed analysis of aggregate demand and supply and applications to inflation and unemployment. Various models of a market economy's performance, and analyses of money and fiscal policies for macroeconomic stabilization and growth.

312. Intermediate Microeconomics (3 cr) Prereq: ECON 211 and 212; ECON 215 or equivalent; MATH 104 or equivalent. Extensions and elaboration of the economic theories of the behavior of producers, consumers, and markets. Applications include analyses of taxation, rationing and other government policies, price discrimination, cartels, unions, and international trade.

389. Current Economic Issues (3 cr) Prereq: ECON 210 or both 211 and 212; for juniors only. Critical analysis of economic issues based upon readings of current and historical importance. (Possible topics: pollution, discrimination, poverty, energy, agriculture, health, demographics, ideology, and crime.)

413. 813. Social Insurance (3 cr) Prereq: Sophomore standing. Analysis of public policies such as Social Security, unemployment insurance, workers' compensation, and public assistance.

433. History of Economic Thought (3 cr) Prereq: Sophomore standing. Examination of selected influential economists' writings; relation between economic theory and historical idea; and the antecedents of contemporary economic controversies.

873. Microeconomic Models and Applications (AECN 873) (3 cr) Prereq: ECON 211, 212, and 215. This course is intended for M.A. and Ph.D. students and others who do not plan to proceed to Ph.D. studies.

874. Microeconomic Models and Applications (3 cr) Prereq: ECON 210, 211, and 212; ECON 215 or equivalent. Designed to give undergraduate and master's level economics students an introduction to basic econometric methods including economic model estimation and analysis of economic data. Hypothesis formulation and testing, economic prediction and problems in analyzing economic cross-section and time series data considered.

Refer to the Graduate Bulletin for 900-level courses.

Also see courses in quantitative Economics.

Economic Education

450-850. Economics for Teachers (2-6 cr) Prereq: Sophomore standing. Structure and function of the economic system and problems in achieving goals of efficient allocation of resources, full employment, stable prices, economic growth, and security. Emphasis on teaching economics at the pre-college level.


852. Teaching College Economics and Business (3 cr)

583. Economics of Education (3 cr)

854. Economic Education Research (3 cr)

Econometrics

417/817. Introductory Econometrics (3 cr) Prereq: ECON 210, 211, and 212; ECON 215 or equivalent. Refer to the Graduate Bulletin for 900-level courses.

Also see courses in Quantitative Economics.

Econometric Analysis

457/857. 19th Century United States Economic History (HIST 457/857) (3 cr) Prereq: ECON 211 and 212, or ECON 210. Transformation of the United States economy from an agrarian to an industrial society and the impact of that transformation on people's lives and livelihoods. The economics of slavery; the impact of the railroads, immigration, and the collective response of business and labor to industrialization.

458/858. 20th Century United States Economic History (HIST 458/858) (3 cr) Lec 3. Prereq: ECON 211 and 212, or ECON 210. Transformation of the United States economy in the twentieth century. Attention to the continued consolidation of the business enterprise, business cycle episodes including the Great Depression of the 1930s, organized labor, and the role of government in managing and coping with this transformation in economic life.

Refer to the Graduate Bulletin for 900-level courses.

Industrial Organization and Regulation


435/835. Market Competition (3 cr) Prereq: ECON 212.

Examination of differing schools of thought about how well a market economy performs. Includes economic analysis and extensive reviews of rivals among corporations in various sectors of the US economy.

Refer to the Graduate Bulletin for 900-level courses.

Also see the following economics courses

ECON 457/857 U.S. Economic History
ECON 458/858 U.S. Economic History
ECON 472/872 Efficiency in Government
ECON 481/881 Economics in Transition
ECON 900. Seminar in Economic Theory & Policy
Institutional Economics

475/875. Theory and Analysis of Institutional Economics (3 cr)
Survey of the basic ideas of Veblen, Polanyi, Commons, Ayres, Garbraith, and M. P. y. Applications of institutional analysis to major economic problems and policies. Examination of the economic system as part of the holistic human culture, a complex of many evolving institutions.

International Trade and Finance

321. Introduction to International Economics (3 cr)
Prereq: ECON 210 or both 211 and 212.
Intermediate survey of international trade and factor movements; balance of payments; commercial policy; economic integration; international monetary and institutions exchange rates and open economy macroeconomics.

421/821. International Trade (3 cr) Prereq: ECON 210 or both 211 and 212.
Determinants of the volume, prices, and commodity composition of trade; effects of trade; international resource movements; trade restrictions on resource allocation, income distribution, and social welfare.

422/822. International Finance (3 cr) Prereq: ECON 210 or both 211 and 212.
Determinants of exchange rates, international payments, inflation, unemployment, national income, and interest rates in an open economy. International monetary system and capital and financial markets; and the mechanisms by which a national economy and the rest of the world adjust to external disturbances.

For additional international courses, see Comparative International and Regional Development.

Labor Economics

381. Introduction to Labor Economics (3 cr) Prereq: ECON 210 or 211.
History and development of the American labor movement; trends and issues in collective bargaining; economic implications of labor unions.

481/881. Economics of the Labor Market (3 cr) Prereq: ECON 210 or 211 and 212.
Microeconomic analysis of wages and employment; determination of labor demand and supply; marginal productivity; bargaining theories of wage determination; mobility and allocation among employers and the impact of unions; government policy; investment in human capital; and discrimination in labor markets.

482/882. Labor in the National Economy (3 cr) Prereq: ECON 210 or 211 and 212.
Macroeconomics aspects of labor economics; how the labor sector of the economy and the economy's overall performance are interrelated; analysis of the general level of wages, employment, unemployment, business cycles, and inflation.

485/885. Government and Labor (M GT 466/866) (3 cr) Prereq: MGT 361 or ECON 381.
For course description, see MGT 466/866.

Refer to the Graduate Bulletin for 900-level courses.

Monetary Economics

303. An Introduction to Money and Banking (3 cr) Prereq: ECON 210 both 211 and 212.
Understanding of the nature of money, the commercial and central banking system, and the role of money and monetary policy as determinants of the aggregate levels of national spending and income, output, employment, and prices.

365. Financial Institutions and Markets (FIN A 365) (3 cr) Prereq: ECON 210 or 211.
Various institutions which collectively constitute the U.S. financial system and a discussion of their origin and development. Analysis of the supply and demand for funds and characteristics of the main financial markets. Emphasis placed on the determination of the price of credit and the term structure of interest rates.

403/803. Money and the Financial System (3 cr) Prereq: ECON 210, or 211 and 212.
Basic policy implications of monetary economics with special reference to the role of the central bank in the determination of income, employment, and prices. Includes demand for and supply of money, commercial and central banking system, monetary policy-making, and financial system, and other issues in monetary economics.

404/804. Current Issues in Monetary Economics (3 cr) Prereq: ECON 210, or 211 and 212.
Money only as developed by classical and modern economists. Emphasis on origins of money, interest rates, inflation, unemployment, business cycles, rational expectations, fiscal policy, international aspects of monetary policy, and other related topics in monetary economics.

Refer to the Graduate Bulletin for 900-level courses.

Public Finance

371. Elements of Public Finance (3 cr) Prereq: ECON 210 or 211. For non-majors.
Economic analysis of current issues in public finance including government policy regarding both expenditure programs and taxation. Federal, state, and local government issues covered. Emphasizing tax policy. Stress applications of basic economic theory which provide insight on policy issues.

471/871. Public Finance (3 cr) Prereq: ECON 210 or 211 and 212.
Microeconomic analysis of policy issues in public finance. Emphasizing taxation. Includes public goods and externalities, analysis of tax incidence; efficiency, equity, and (c) fiscal federalism.

472/872. Efficiency in Government (3 cr) Prereq: ECON 210 or 211 and 212.
Prepares students to conduct social and economic planning, program evaluation, and budgeting. Analysis of the delivery of government goods and services with regard to the objectives identified as governmental; includes philosophy of government, budgetary theory, social indicators, social fabric matrix, cost-effective analysis, technology assessment, evaluation of the natural environment, and time value.

Refer to the Graduate Bulletin for 900-level courses.

Quantitative Economics

381/881. Statistics (3 cr) Prereq: Sophomore standing; MAT 104/104 or MAT 105/105; BSAD 250, 2.5 GPA. Credit toward the degree in the College of Business Administration cannot be earned in both ECON 215 and STAT 218 or EDPS 459 or CRN 300, or in both ECON 215 and SOC 216.
Credit toward the degree in the College of Arts and Sciences cannot be earned in both ECON 215 and STAT 218, or in both EDPS 450 and STAT 218.
Introduction to the collection, analysis, and interpretation of statistical data used in economics and business. Probability analysis, sampling, hypothesis testing, analysis of trends and seasonality, correlation, and simple regressions.

419/819. Topics in Applied Research (3 cr) Prereq: ECON 419 or ECON 421, or ECON 212.
Selected topics involving the use of quantitative methods in applied research.

189. Freshman Seminar (3 cr) Prereq: Permission. Topics vary each term.

399. Independent Study (1-3 cr) Prereq: Prior arrangement with and permission of individual faculty member and completion of proposed plan to departmental office. Special research project or reading program under the direction of a staff member in the department.

399H. Honors Independent Study (3-6 cr) Prereq: Admission to the University Honors Program or by invitation, and permission. Special research project or reading program.

499H. Honors Thesis (3-6 cr) Prereq: Admission to the University Honors Program or by invitation, and permission. Conducts a scholarly research project and writes a University Honors Program thesis.

Refer to the Graduate Bulletin for 900-level courses.

Education

(Minor only)

Coordinator: Anne Kopera, 107 Oldfather

This minor allows students to explore the field of education. It would also be useful for students who would like a basic set of education courses as background for a career that involved instruction, but did not require certification to teach in public schools.

Requirements for the Minor in Education

- 19 hours from the following courses. Students should complete the basic core first.

I. Basic Core–13 hours minimum:

1. EDUC 131 Foundations of Modern Education or TEAC 331 Cultural Foundation of American Education or TEAC 431 History of Education in the United States (3 cr) and

2. Either both EDPS 250 Fundamentals of Child Development for Education and TEAC 297A Professional Practicum Experiences or both EDPS 251 Fundamentals of Adolescent Development for Education and EDPS 257 Professional Practicum Experiences (3 cr) and

3. EDPS 362 Learning in the Classroom (3 cr) and

4. TEAC 330 Multicultural Education (3 cr) or TEAC 430 Intro to Philosophy of Education (3 cr).

II. Choose 6 hours from:

- Any EDPS course (except EDPS 150)
- Any 300-level course
- Any 400-level course
Pass/No Pass. A student may apply up to 6 hours of Pass/No Pass credit toward a minor in education.

English

Chair: Joy Ritchie, 204A Andrews Hall

Chief Adviser: Fran Kaye

The Department of English seeks to provide for the diverse needs of its students by offering them the opportunity to read widely, to understand and enjoy what they read, and to express themselves both orally and in writing with ease, force and clarity. Through the practice of writing and the study of language, literature and film, the department strives to stimulate humanistic learning and the capacity to respond rationally and imaginatively to literature and the life it reflects.

The undergraduate major in English is designed for three groups: 1) those who seek a general education; 2) those who plan to teach in the elementary and secondary schools; and 3) those who plan to pursue graduate study in the field. The major is also frequently chosen as preparation for professional study in law, medicine, and business, and for careers in other fields. Students who major in English also often major in a career-oriented subject.

Requirements for the Major in English

- 36 hours distributed at the following levels
  - 200 level or above........................................15
  - 300 level or above........................................15
  - 400 level...................................................... 6

  The major also requires a minimum number of these 36 hours in different areas or courses

  Hours
  - A. English 200.................................................. 3
  - B. Linguistics, writing, and/or rhetoric (254, 322A, 322B, 322A, 325, or 376).................................3
  - C. Literary or rhetorical theory (270, 275, 373, 418, 477, 475A, or 478)........................................3
  - D. Historical Literature Core
    - British Literature (230A*, 305A, 330A*, 382, 363, 364, or 365).................................................. 3
    - American Literature (361A or 361B).......................................................... 3
  - E. Literature in the Context of Culture, Ethnicity, and/or Gender (212, 215B, 215, 239B, 244, 244B, 244F, 245B, 245D, 249J, 315A, 315B).............................. 3
  - F. Capstone Course (487).................................. 3
  - G. Concentration............................................. 12

Concentrations. There are four suggested Concentrations available in English: Literary and Cultural Studies; Creative Writing; Film Studies; Rhetoric and Culture. In addition, students have the option of developing a special field concentration in consultation with the Chief Adviser and appropriate faculty.

Literary and Cultural Studies focuses on the analysis of texts, including works of fiction, drama, and poetry, as well as the various media of popular culture. There are no required "core" courses for this concentration; instead, students select four literary and/or literary-critical courses (at least two above the 299 level) that create a focused strand of interest organized around a controlling theme or topic. Students should file their identified strand of interest with the English Undergraduate Advising Office (123 Andrews) early in their program.

Creative Writing is intended for students who wish to explore their abilities in imaginative writing, principally in the areas of poetry, prose fiction, and non-fiction prose. Students in this Concentration also study published literary work in the various literary genres. Typically, students complete one or more introductory 200-level courses in Creative Writing (which do not count toward the Concentration) and then proceed to the more advanced courses listed below.

- 6 hours of Advanced Courses in Creative Writing: ENGL 352, 353, 452, 452A, 453, 453
  - 3 hours of an Advanced Film Course: ENGL 413, 413A, 413B

Movie Studies includes analysis of moving images that begins with the dawn of motion picture history in the late nineteenth century and extends to films from contemporary cinema. Films are the primary texts, but they are supplemented by written materials that provide historical context, analysis, and examples of film criticism.

- 3 hours of the Introductory Level Course: ENGL 213E
  - 6 hours of M Id-Level Advanced Courses: ENGL 239, 239B, 239H, 239I, 295, 395, 395A, 405, 418
  - 3 hours of an Advanced Film Course: ENGL 413, 413B, 413C

Writing, Rhetoric, and Culture focuses on extended practice in writing for many purposes and audiences, including academic, professional, personal, and community contexts. The Concentration helps students explore the way individuals use writing and rhetoric to act in the world and attend to relationships between language, literacy, power, identity, and culture.

- 6-12 hours of Core Courses: ENGL 254, 258E, 354, 357, 376, 377, 454, 457A, 475, 482
  - 0-6 hours of Elective/Supplemental Courses: ENGL 210I, 211, 220, 220, 293, 315A, 322A, 373, 427, 459, 478

Requirements for the Minor in English

- Consult the College of Education and Human Sciences section of this bulletin.

Requirements for the Minor in English

- Plan A: 18 hours of English above the 100 level; 9 hrs must be above 299; of these 9 hrs, 3 hrs must be above 399.
- Plan B: 12 hours of English beyond the 100 level; 6 hrs above 299.

No more than 3 hours of Pass/No Pass may count for a minor in English.

Graduate Work. The advanced degrees of master of arts and doctor of philosophy are offered. For details see the Graduate Studies Bulletin.

Special Programs. The Department of English houses the major in Film Studies and participates in the major in Women’s and Gender Studies in the minors in African American Studies, Chicano Studies, Ethnic Studies, and the major in American Studies, Judaic Studies, Medieval and Renaissance Studies, and Religious Studies, and in the University Studies Program.

Pass/No Pass. A student may apply up to 6 hours of Pass/No Pass credit toward a major in English without securing permission; and a student may apply up to 6 hours of Pass/No Pass credit toward a minor in English.
credit toward a minor in English, subject to the approval of the department granting the major. To secure the necessary approval, students may obtain request forms from the Arts and Sciences Advising Center, 107 Oldfather Hall.

**International Students**

International students who are not native speakers of English must take an English placement examination. For details see the coordinator of the English as a Second Language program in the Department of English.

### The Curriculum

#### Course Offerings

English courses are regularly offered in drama, poetry, and fiction; the English language periods and authors in British and American literature; world literature in English; women's literature and minority literatures creative and expository writing; literary and rhetorical theory and criticism; and film. For the precise courses offered or to be offered in any particular semester, see the Schedule of Classes for that semester. A course description booklet is also available in the departmental office and online before each early registration period.

#### Credit Hours

Undergraduate English courses will usually yield 3 semester hours of credit. Graduate-level seminars are usually offered for variable credit (normally 3 or 4 credit hours). The letter suffix "H" indicates an honors course.

#### Independent Study

This is a provision for students wishing to study areas of literature and language not covered or insufficiently covered in regularly scheduled classes. Students must secure permission from a professor and staff member willing to direct their study and must file an Independent Directed Reading Contract (available in the Advising Center, 123 Andrews Hall) with the Undergraduate Adviser.

**NOTE:**

*ENGL 497 (Independent Study) and/or 497 may count toward the 300-level requirement for the major. Graduate-level seminars are usually offered for variable credit (normally 3 or 4 credit hours). The letter suffix "H" indicates an honors course.

#### Prerequisites

The first course in English is ordinarily chosen from courses numbered 100-151. However, international students who are not native speakers of English normally take 186 or 187-188.

### Course Levels

#### 100-Level

Introductory courses open only to freshman and sophomore students. Transfer students and others who have not met the communication requirement and have 65 or more credit hours must choose ENGL 254 or 354 to complete this requirement. In unusual cases, exceptions to this rule may be granted by the Dean of Graduate Studies. Writing is emphasized in courses numbered 100-199, and all such courses except 180, 189H, and 186, 187, are designed to fulfill the first-year English (composition) requirement (Group A). New admittance students who are not native speakers of English must take an English placement examination to determine their appropriate course requirement.

**200 Level**

Courses designed for the intermediate student who has completed one or two courses in English.

**300 Level**

Courses designed for the intermediate student who ordinarily will have had two courses at the 200 level. These students should normally take the remainder of their courses at the 300 level or 400 level. English majors and minors should advance to the 300 level as soon as possible.

**400 Level**

Courses designed for the advanced student or the student with a special interest. English majors must take at least 6 credit hours at the 400 level.

**800/900 Level**

Graduate courses. Graduate standing and at least 18 hours of undergraduate course work in English are prerequisite to courses at the 800- and 900-level. Advanced undergraduates may register in 800- and 900-level courses with the permission of the Dean of Graduate Studies. Provided that these hours do not count towards their baccalaureate requirements.

### Courses of Instruction (ENGL)

#### Frequency of Offerings

An asterisk (*) following the course title indicates a course not necessarily offered every year. (Group A) indicates courses offered annually. The Department of English may offer other special or new courses not listed here. For specific listings for any particular semester, consult the Schedule of Classes and the Department of English course description booklet for that semester.

**NOTE:**

Transfer students and others who have not met the communication requirement and have 65 or more credit hours must choose ENGL 254 or 354 to complete this requirement. In unusual cases, exceptions to this rule may be granted by the Undergraduate Adviser, English Department.

#### Prerequisites

The first course in English is ordinarily chosen from courses numbered 100-151. However, international students who are not native speakers of English normally take 186 or 187-188.

### Course Levels

#### 100-Level

Introductory courses open only to freshman and sophomore students. Transfer students and others who have not met the communication requirement and have 65 or more credit hours must choose ENGL 254 or 354 to complete this requirement. In unusual cases, exceptions to this rule may be granted by the Dean of Graduate Studies. Writing is emphasized in courses numbered 100-199, and all such courses except 180, 189H, and 186, 187, are designed to fulfill the first-year English (composition) requirement (Group A). New admittance students who are not native speakers of English must take an English placement examination to determine their appropriate course requirement.

**200 Level**

Courses designed for the intermediate student who has completed one or two courses in English.

**300 Level**

Courses designed for the intermediate student who ordinarily will have had two courses at the 200 level. These students should normally take the remainder of their courses at the 300 level or 400 level. English majors and minors should advance to the 300 level as soon as possible.

**400 Level**

Courses designed for the advanced student or the student with a special interest. English majors must take at least 6 credit hours at the 400 level.

**800/900 Level**

Graduate courses. Graduate standing and at least 18 hours of undergraduate course work in English are prerequisite to courses at the 800- and 900-level. Advanced undergraduates may register in 800- and 900-level courses with the permission of the Dean of Graduate Studies. Provided that these hours do not count towards their baccalaureate requirements.

### Courses of Instruction (ENGL)

#### Frequency of Offerings

An asterisk (*) following the course title indicates a course not necessarily offered every year. (Group A) indicates courses offered annually. The Department of English may offer other special or new courses not listed here. For specific listings for any particular semester, consult the Schedule of Classes and the Department of English course description booklet for that semester.

**NOTE:**

Transfer students and others who have not met the communication requirement and have 65 or more credit hours must choose ENGL 254 or 354 to complete this requirement. In unusual cases, exceptions to this rule may be granted by the Undergraduate Adviser, English Department.

#### Prerequisites

The first course in English is ordinarily chosen from courses numbered 100-151. However, international students who are not native speakers of English normally take 186 or 187-188.

### Course Levels

#### 100-Level

Introductory courses open only to freshman and sophomore students. Transfer students and others who have not met the communication requirement and have 65 or more credit hours must choose ENGL 254 or 354 to complete this requirement. In unusual cases, exceptions to this rule may be granted by the Dean of Graduate Studies. Writing is emphasized in courses numbered 100-199, and all such courses except 180, 189H, and 186, 187, are designed to fulfill the first-year English (composition) requirement (Group A). New admittance students who are not native speakers of English must take an English placement examination to determine their appropriate course requirement.

**200 Level**

Courses designed for the intermediate student who has completed one or two courses in English.

**300 Level**

Courses designed for the intermediate student who ordinarily will have had two courses at the 200 level. These students should normally take the remainder of their courses at the 300 level or 400 level. English majors and minors should advance to the 300 level as soon as possible.

**400 Level**

Courses designed for the advanced student or the student with a special interest. English majors must take at least 6 credit hours at the 400 level.

**800/900 Level**

Graduate courses. Graduate standing and at least 18 hours of undergraduate course work in English are prerequisite to courses at the 800- and 900-level. Advanced undergraduates may register in 800- and 900-level courses with the permission of the Dean of Graduate Studies. Provided that these hours do not count towards their baccalaureate requirements.

### Courses of Instruction (ENGL)

#### Frequency of Offerings

An asterisk (*) following the course title indicates a course not necessarily offered every year. (Group A) indicates courses offered annually. The Department of English may offer other special or new courses not listed here. For specific listings for any particular semester, consult the Schedule of Classes and the Department of English course description booklet for that semester.

**NOTE:**

Transfer students and others who have not met the communication requirement and have 65 or more credit hours must choose ENGL 254 or 354 to complete this requirement. In unusual cases, exceptions to this rule may be granted by the Undergraduate Adviser, English Department.

#### Prerequisites

The first course in English is ordinarily chosen from courses numbered 100-151. However, international students who are not native speakers of English normally take 186 or 187-188.

### Course Levels

#### 100-Level

Introductory courses open only to freshman and sophomore students. Transfer students and others who have not met the communication requirement and have 65 or more credit hours must choose ENGL 254 or 354 to complete this requirement. In unusual cases, exceptions to this rule may be granted by the Dean of Graduate Studies. Writing is emphasized in courses numbered 100-199, and all such courses except 180, 189H, and 186, 187, are designed to fulfill the first-year English (composition) requirement (Group A). New admittance students who are not native speakers of English must take an English placement examination to determine their appropriate course requirement.

**200 Level**

Courses designed for the intermediate student who has completed one or two courses in English.

**300 Level**

Courses designed for the intermediate student who ordinarily will have had two courses at the 200 level. These students should normally take the remainder of their courses at the 300 level or 400 level. English majors and minors should advance to the 300 level as soon as possible.

**400 Level**

Courses designed for the advanced student or the student with a special interest. English majors must take at least 6 credit hours at the 400 level.

**800/900 Level**

Graduate courses. Graduate standing and at least 18 hours of undergraduate course work in English are prerequisite to courses at the 800- and 900-level. Advanced undergraduates may register in 800- and 900-level courses with the permission of the Dean of Graduate Studies. Provided that these hours do not count towards their baccalaureate requirements.

### Courses of Instruction (ENGL)

#### Frequency of Offerings

An asterisk (*) following the course title indicates a course not necessarily offered every year. (Group A) indicates courses offered annually. The Department of English may offer other special or new courses not listed here. For specific listings for any particular semester, consult the Schedule of Classes and the Department of English course description booklet for that semester.

**NOTE:**

Transfer students and others who have not met the communication requirement and have 65 or more credit hours must choose ENGL 254 or 354 to complete this requirement. In unusual cases, exceptions to this rule may be granted by the Undergraduate Adviser, English Department.

#### Prerequisites

The first course in English is ordinarily chosen from courses numbered 100-151. However, international students who are not native speakers of English normally take 186 or 187-188.
213E. Introduction to Film History (3 cr) Historical development of the motion picture industry as a business, dealing with the major directors, films, genres, and critical theories which have shaped films in the twentieth century. Weekly film screenings.

215E. Introduction to Women's Literature (3 cr) Representative works in various forms by women from the Middle Ages to the present, in order to identify significant cultural, social, and historical issues and themes.

216A. Children's Literature (3 cr) Selected works of literature originally addressed primarily to children which have attracted adult attention to their artistry and themes.

218. Film Genre (3 cr) Various film genres, such as Gothic, the Western, and film noir, from their inception in the early 1900s to the present. Variations (such as 219A, Film Noir) may concentrate on a particular genre. Weekly film screenings.

220. Introduction to Linguistic Principles (3 cr) Language as a system of arbitrary symbols for human communication. Pragmatics, semantics, syntax, morphology, phonology, language variation, first and second language acquisition, written language, language processing and the neurology of language. Recommended for nonmajors interested in literature and its historical and cultural context.

230. English Authors to 1800 (3 cr) Recommended for nonmajors interested in literature and its historical and cultural context. Major British writers from Beowulf to the end of the eighteenth century. Attention given to historical background.

230A. Shakespeare (3 cr) Introductory study of a representative sample of Shakespeare's works. Some films of dramatic performances may be shown.

231. English Authors after 1800 (3 cr) Recommended for nonmajors interested in literature and its historical and cultural context. Major works by British authors of the Romantic and Victorian periods and of the twentieth century.

232. The Jewish Idea in Modern Literature (M O D L 232) (3 cr) For course description, see MODL 232.

234. Major Themes in World Literature (M O D L 234) (3 cr) For course description, see MODL 234D.

239. Film Directors (3 cr) Films of a director or a small group of directors. Weekly film screenings.

240B. Autobiographical Writing (3 cr) Study and practice of composition.

240C. Women in Popular Culture (3 cr) Introduction to the interdisciplinary study of both thematic and formal/technical relationships between works of literature and music, visual arts, theatre, and the plastic and spatial arts.

245. Introduction to Asian Literature and Culture (ETH N 245A) (3 cr) Introduction to twentieth-century Asian American literature and relevant historical and cultural background.

245B. Native American Literature (ETH N 245B) (3 cr) Introduction to literature by and about the American Indian covering early and recent periods.

245D. Chicana and/or Chicano Literature (ETH N 245D) (3 cr) Lec. 3. Introduction to literature by and about Mexican-Americans in its cultural and historical context.

245G. Jewish-American Fiction (IU DS 245G) (3 cr) Twentieth-century novels and short stories by major Jewish-American authors.

245K. Canadian Literature (3 cr) Canadian literature from the pre-confederation period to the present.

245N. Native American Women Writers (3 cr) Representative works of Native American women studies in their social and historical contexts.

247. Literature and Arts on the Plains (3 cr) Plains literature in the context of other arts and art history, focusing on mainstream Euro-American and traditional native American arts. Literature written for painting, sculpture, music, theater, and folk arts.

252. Writing of Fiction (3 cr) Introduction to the writing of fiction. Emphasis on student writing within a context of theory and criticism.

252A. Introduction to Writing Fiction (3 cr) Introduction to the writing of fiction. Student writing, reading, and analysis of fiction writers, and issues that concern multicultural writers.

253. Writing of Poetry (3 cr) Introduction to the writing of poetry. Emphasis on student writing within a context of theory and criticism.

253A. Writing of Poetry: Women's Poetry (3 cr) Introduction to the writing of poetry. Emphasis on student writing with special focus on reading women poets and on issues that concern women writers.

254. Writing and Communities (3 cr) Lec. 3. Extended writing and its uses in and by various communities.

258B. Autobiographical Writing (3 cr) Reading and analysis of published autobiographical writing and practice in recalling, researching, and writing autobiographical material.

259B, Special Topics in Writing (2 cr) Prereq: 6 hrs freshman English. Independent study course for intermediate students in the study and practice of composition.

259A. Writing for Films and TV* (3 cr) Introduction to the basics of screenplay writing from the conception of an idea through its realization in a screenplay written in the major scene format.

269. Film Period* (3 cr) Intensive examination of artistic movements and major directors in an important historic period of film. Examples: Russian film of the 1920s, the French New Wave, Hollywood in the 30s-40s.

270. Literary Critical Theory (3 cr) Nature and function of literary critical theory in the study of literary texts. Selected approaches and is not intended as a general survey.

275. Introduction to Rhetorical Theory* (3 cr) Nature and function of rhetorical theory as applied to English Studies. Selected important ancient and modern rhetorical theories and is not intended as a general historical survey.

278. Introduction to Humanities Computing (3 cr) Lec. 3. ENG L 278 requires contributing to an ongoing Web-based project.

282. Literature and the Other Arts* (3 cr) Introduction to the interdisciplinary study of both thematic and formal/technical relationships between works of literature and music, visual arts, theatre, and the plastic and spatial arts.

283. Contemporary Culture (3 cr) Contemporary cultural texts (e.g., television, sports, music, literature, art). Relation between these texts and their significance within contemporary society.

285. Introduction to Comparative Literature* (MOD L 285) (3 cr) Prereq: Sophomore standing and at least 3 cr in literature in English or modern languages. Introduction to the methods and materials of comparative literature. Selected approaches. Comparison of literatures of different languages, cultures, historical periods, and genres.

289. Special Topics (1-3 cr, max. 3)

299. Independent Directed Reading (1-6 cr) Prereq: Permission.

303A. Poetry since 1960* (3 cr) Major trends and authors of British and American poetry since 1960.

303B. Short Story (3 cr) Introduction to the historical context, criticism, and interpretation of short stories.

305A. The Novel 1700-1900 (3 cr) Readings in the British novel from its beginning to 1900. Examples works by Defoe, Fielding, Austen, Dickens, Eliot, Hardy.

313D. Literature of Socialism* (3 cr) Lec. Imaginative literature and philosophical and social writing of diverse revolutionary social movements. Marxian, Anarchist, Feminist, Third World authors and thinkers, and the history of American radicalism.


313B. The Film Industry* (3 cr) C. units for credit toward the film minor, but does not count for credit toward the English major or minor. Historical and contemporary practice of the motion picture industry as a business, dealing with issues such as exhibition, production, distribution, and the un-ionization of films.

315A. Survey of Women's Literature* (3 cr) Historical survey of women's writings in English.

315B. Women in Popular Culture (3 cr) Relation between women's roles and popular images in the media, including romances, soap operas, science fiction, and magazines, with attention to their historical development.

322A. Modern English Grammar* (3 cr) Course in linguistic analysis of the structure of the English language and not a course in the rules of English grammar and composition. Aims, methods, and results of descriptive analysis of contemporary English, with emphasis on the syntax of American English.

322B. Linguistics and Society* (3 cr) How language is used in the media, education, and politics. Bilingualism, speech styles, kinship, pragmatics, oral and literacy dialects, gender and applied sociolinguistics.

330. British Authors to 1800* (3 cr) Intensive study of the works of an author or small group of authors usually in historical and biographical context. Examples: Chaucer, Shakespeare, Milton, Jane Austen, Dickens.

331. British Authors Since 1800* (3 cr) Intensive study of the works of an author or small group of authors usually in historical and biographical context. Examples: Chaucer, Shakespeare, Milton, Jane Austen, Dickens.

332. American Authors to 1800* (3 cr) Intensive study of the works of an author or small group of authors usually in historical and biographical context. Examples: Mark Twain, Robert Frost, Fitzgerald, and Hemingway.

333. American Authors Since 1800* (3 cr) Intensive study of the works of an author or small group of authors usually in historical and biographical context. Examples: Mark Twain, Robert Frost, Fitzgerald, and Hemingway.

334A. Women in the Academy, Publishers, Classrooms, and Libraries (3 cr) Special topics course for intermediate students in the study and practice of composition.

335. Women's Writing in English (3 cr) Historical survey of women's writings in English.
Modernist, and Contemporary periods.

Literature from 1865 to the present. Works from the Realist, Major authors, themes, and intellectual trends in American

Nineteenth, Early National, and Romantic periods.

Literature experiences with ethnic cultural contexts, both in relation to the arts and humanities, and to religion, anthropol-

ogy, history and geography.

National Cinemas

Films produced in one country seen in their aesthetic and historical context from the beginning to 1965. Works from the Colo-
nial, Early National, and Romantic periods.

Advanced Writing of Fiction

Study and practice of the writing of fiction for intermediate students with previous fiction writing experience.

Advanced Writing of Poetry

Study and practice of the writing of poetry for intermediate students with previous poetry writing experience.

Writing Uses of Literary (3 cr)

Prepr 3 hrs writing course at the 200 level or above. Extended practice in writing through the study of literature—

situating students’ own literary histories, exploring larger public debates about literature, and researching the relationships

between language, power, identity and authority.

Composition Theory and Practice (3 cr)

Prepr: Admission to Teacher Education Program in the College of Education and Humanities.

Recent research on literacy development and writing processes. Extended reflection and some application of theory to

students’ experiences with writing instruction and their own goals as K-12 teachers.

Introduction to Early American Literature (3 cr)

Lec 3.

M ajor authors, themes, and intellectual trends in American literature from the beginnings to 1865. Works from the Colonial,

Early National, and Romantic periods.

Introduction to Late American Literature (3 cr)

Lec 3.

M ajor authors, themes, and intellectual trends in American literature from 1865 to 1900. Works from the Realist,

Imagism, and Modernist periods.

Introduction to Medieval Literature (3 cr)

M ajor English works, in the original language and in translation, from Beowulf to the late Middle Ages with a focus on

Chaucer.

Introduction to Renaissance Literature (3 cr)

Representative works in various genres written in English during the sixteenth and early seventeenth centuries which

reflect major themes and intellectual trends of the Renaissance period.

Introduction to Restoration and Eighteenth-Century Literature (3 cr)

M ajor English writers—such as Dryden, Pope, Swift, Johnson—seen in the literary, historical, and intellectual context of the

period 1660-1800.

Introduction to Nineteenth-Century British Literature (3 cr)

Poetry and prose of the principal British authors of the Romantic and Victorian periods.

Film Theory and Criticism (3 cr)

History of film theory and methods of applied criticism for the intermediate or advanced student with previous film study

experience. Weekly film screenings.

Rhetoric Argument and Society* (3 cr)

M ajor rhetorical theories, both ancient and modern, with emphasis on the politics and psychology of persuasion in its social

context.
**Entomology/College of Arts and Sciences**

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477/871. Literary Criticism and Theory* (3 cr)
History, analysis, and application of a variety of trends in literary criticism and theory.

475/875. Rhetoric (3 cr)

[IS] 478/878. Electronic Texts: Theory and Practice (English) (3 cr) Lec. Prereq: Junior standing. The shift from printed to digital texts and its implications for the nature of meaning and research in the humanities. Practice in digitally encoding texts and analysis of representative electronic projects dedicated to a variety of authors and genres.

489/889. Writing Theory and Practice for Consultants (3 cr) Lec. 3, S. Successful completion of ENGL 480/880 is required to intern or work as a consultant in UNL Writing Assistance Center.

Introduction to issues and scholarship in teaching writing and working as a writing consultant.

482/882. Literary Issues and Community (3-6 cr)
Literary theory and its application in school, community, and workplace environments. May include a literary and/or writing internship in a community or workplace setting.

487. English Capstone Experience (5 cr) Lec. 3.
Prereq: 3 hrs English composition above the ENGL 200 level. Individual projects Integration and application of skills and knowledge gained in courses taken for the English major. Development of these skills and knowledge toward life after graduation.

489/889. Medieval Literature and Theology (REL 489/889) (3 cr)
The relationship between significant medieval theologies and the nature of meaning and research in the humanities. Practice in digitally encoding texts and analysis of representative electronic projects dedicated to a variety of authors and genres.

499. Internship in English (1-6 cr) Prereq: Permission.

497/897. Independent Directed Reading (1-6 cr) Prereq: Permission.

498/898. Special Topics (1-6 cr, max 6) Lec. Prereq: Senior standing.

884. GESL/Advanced Academic Writing (3 cr) Prereq: Permission.

*886. GESL and/or Academic Language Skills (3 cr) Prereq: Permission.

*887. GESL and/or Academic Research Skills (3 cr) Prereq: Permission.

*888. Spoken English for International Students (3 cr) Prereq: Permission.

895. Internship in Teaching English (1-3 cr) Prereq: Permission.

896. Research and Reading (1-6 cr)

899. Masters Thesis (6-10 cr)

Refer to the Graduate Bulletin for 900-level courses.

**Entomology**

(Minor only)

Coordinator: Anne Kopera, 107 Oldfather Hall

Requirements for the Minor in Entomology

Plan B. 6 hours in entomology courses numbered above 400.

**Environmental Studies**

Director and Chief Undergraduate Adviser:

Bob Kuzelka, 504 Hardin Hall

Academic Adviser: Sara McGee Winn, 345 Nebraska Union

Coordinating Committee:

Professors Carr (chemistry), Gardner (biological sciences), Kuzelka (natural resources), Lawson (geosciences), Wandsnider (anthropology), Williams (sociology)

**Liaison Persons:**

Edward Schmidt, Associate Dean (College of Arts and Sciences); Steve Waller, Dean (College of Agricultural Sciences and Natural Resources)

**Website:** www.unl.edu/esp/

The environmental studies major is designed to serve a variety of students concerned about environmental issues and change. Students may select a BS track through the College of Agricultural Sciences and Natural Resources (see "Environmental Studies" on page 89) or a BA track through the College of Arts and Sciences. The degree program consists of four required components:

1. Every major must complete a set of core courses that provide breadth in environmental science and issues.

2. Students also must complete a set of general collateral course requirements, depending on the degree track chosen. These provide students with some useful analytical tools.

3. Majors also must complete an emphasis to provide depth in one of the following areas: anthropology, biology, chemistry, geography, geology, meteorology-climatology, or sociology (through the College of Arts and Sciences); or applied climatic science or natural resources (through the College of Agricultural Sciences and Natural Resources).

4. After earning 88 credit hours, students must complete a "capstone" senior thesis (ENVR 499) with permission of the program director and under the guidance of a faculty adviser and the Environmental Studies Seminar (ENVR 499).

The environmental studies program has an elective internship course (ENVR 497) which provides the opportunity to gain work experience in an off-campus setting related to a student's academic and career objectives. Advanced students are encouraged to explore this possibility with the adviser in their area of emphasis and with the Program Director.

Students interested in majoring in environmental studies through the College of Arts and Sciences are advised to make an initial appointment with the program or academic adviser. Those interested in pursuing a natural resources emphasis should see the program director also. Once a student has selected an area of emphasis, advising regarding the emphasis will be done through the appropriate department. However, the program director will continue to be the student's degree adviser.

**Program Assessment:** In order to assist the department in evaluating the effectiveness of its programs, majors will be required to complete a written exit survey submitted anonymously in the senior seminar.

**Results of participation in this assessment activity will in no way affect a student's GPA or graduation.**

**Requirements for the Major in Environmental Studies**

A course may count toward the core, the emphasis and the collateral requirement if it is included in more than one of these categories.

1. **Core Courses (BS and BA degrees)**

   **Total Credit Hours: 31-33**

   ANTH 473. Ecological Anthropology or 474 Applied Developmental Anthropology or 476 Human Rights Environment or 477 H. anter 30-33

   BIO 232. Ecological Issues in the Great Plains or 207 Ecology & Evolution (4 cr) or BIO/S/NRES 220 Principles of Ecology (3 cr)

   NOTE: Biology Emphasis must take BIO 220 Principles of Ecology (3 cr) and 222 Ecology Lab (1 cr) or 207 Ecology & Evolution (4 cr)

   CHEM 105. Chemistry in Context I or 109 General Chemistry I or 113 Fundamental Chemistry I (4 cr)

   CHEM 289. Environmental Studies Seminar (3 cr) or 288 Environmental Studies Seminar (1 cr)

   CHEM 499A. Environmental Studies Senior Thesis I (1 cr)

   CHEM 499B. Environmental Studies Senior Thesis II (2 cr)

   GEOG 181. Quality of the Environment or NRES 103 Food, Agriculture, Natural Resources Systems (3 cr)

   GEOG 101. Physical Geology (4 cr) or 106 Environmental Geology (3 cr)

   METR 200. Weather & Climate (4 cr)

   NRES 323. Natural Resources Policy (3 cr)

   SOC 444. Social Demography or 446 Environmental Sociology (3 cr)

2a. **General Collateral Course Requirements (BS degree)**

   **Total Credit Hours: 24-25**

   CHEM 110. General Chemistry II or 114 Fundamental Chemistry I (4 cr) and 116 Quantitative Chemistry Lab (5 cr)

   MATH 106. Analytical Geometry & Calculus I (5 cr)

   and 107 Analytical Geometry & Calculus II (5 cr)

   PHYS 141. Elementary General Physics and 142 Elementary General Physics Lab (10 cr) or 211 General Physics and 212 General Physics Lab and 221 General Physics II and 222 General Physics Lab II (10 cr)

2b. **General Collateral Course Requirements (BA degree)**

   **Total Credit Hours: 9-10**

   (Equivalent courses may be substituted with adviser's and Dean's Office approval.)

   Research Tool (one course from each group)

   CSC 150. Intro to Computer Programming for Scientists & Engineers (3 cr) or ANTH 484 Quantitative Methods in Anthropology (3 cr) or GEOG 414 Quantitative Methods in Geography (3 cr) or SOC 210 Intro to Social Research I (3 cr)

   GEOG 317. Cartography (4 cr) or 412 Intro to Geographic Information Systems (4 cr) or 418 Remote Sensing I (3 cr)

   STAT 218. Intro to Statistics (3 cr)
### Anthropology Emphasis in Environmental Studies (BA degree)

**Total Credit Hours: 18**

**Required from Environmental Studies Core:**
- ANTH 473. Ecological Anthropology (3 cr)

**Required for Anthropology Emphasis (6 cr):**
- Choose two of the following:
  - ANTH 110. Intro to Anthropology (3 cr)
  - ANTH 212. Intro to Cultural Anthropology (3 cr)
  - ANTH 261. Conflict Resolution (3 cr)
  - ANTH 476. Human Rights, Environment & Development (3 cr)

**Regional Background Courses (3 cr) chosen from:**
- ANTH 350. People & Cultures of Native America (3 cr)
- ANTH 351. Indigenous Peoples of North America (3 cr)
- ANTH 352. Indigenous Peoples of the Great Plains (3 cr)
- ANTH 362. Peoples & Cultures of Africa (3 cr)
- ANTH 363. Peoples & Cultures of the Arctic (3 cr)
- ANTH 365. Ethnology of Europe (3 cr)
- ANTH 366. Peoples & Cultures of East Asia (3 cr)
- ANTH 417. History of Anthropological Theory (3 cr)
- ANTH 434. Intro to Great Plains Archaeology (3 cr)
- ANTH 471. Food & Human Evolution (3 cr)
- ANTH 476. Human Rights, Environment & Development (3 cr)
- ANTH 477. Human Rights, Environment & Development (3 cr)
- ANTH 496. Special Readings in Anthropology (3 cr)

**Specialty Courses (3 cr) chosen from:**
- ANTH 432. History & Theory of Anthropology (3 cr)
- ANTH 446. Paleoanthropology (3 cr)
- ANTH 482. Research Methods in Anthropology (3 cr)
- ANTH 483. Advanced Field Methods (3 cr)

**Allied Fields (6 cr) chosen from:**
- GEOG 334. Historical Geography of the Great Plains (3 cr)
- SOC 144. Social Demography (3 cr)
- SOC 146. Environmental Sociology (3 cr)

### Biological Sciences Emphasis in Environmental Studies (BA and BS degrees)

#### BA Degree—Total Credit Hours: 23-24

- BIOS 102 Cell Structure & Function (3 cr) or 103 Biodiversity (4 cr) or 206 General Genetics (4 cr)
- BIOS 109. General Botany (4 cr) or 112 Intro to Zoology (4 cr)
- BIOS 312 & 314. Microbiology with Lab (4 cr)

**Choose three advanced organismal biology courses from:**
- BIOS 374, 381, 385, 386, 422, 423, 436, 438, 441, 447, 455, 457, 471, 472, 473, 474, 475, 476, 482, 487, 488

#### BS Degree—Total Credit Hours: 22-25

**Biology (All of the following):**
- BIOS 103 & 104 or BIOS 312 (3 cr) & 314 (1 cr)
- BIOS 381 (4 cr) or BIOS 386 (4 cr)
- BIOS 207 (4 cr) or BIOS S/NRES 220 (4 cr)

**Pick four of the following courses from any of the following sections:**

**Animal**
- BIOS 412H: Honors Human Genetics (3 cr)
- BIOS 422. Comparative Physiology (3 cr)
- BIOS 423. Advanced Animal Physiology (3 cr)
- BIOS 462. Animal Behavior (3 cr)
- BIOS 464. Fisheries Biology (3 cr)
- BIOS 466. Field Animal Behavior (4 cr)
- BIOS 474. Herpetology (4 cr)
- BIOS 475. Ornithology (3 cr)
- BIOS 476. Mammalogy (3 cr)
- BIOS 481. Ethnobiology (4 cr)
- BIOS 482. Field Entomology (4 cr)
- BIOS 485. Aquatic Insects (3 cr)
- BIOS 487. Field Parasitology (4 cr)
- BIOS 488. N-D Natural History of Invertebrates (4 cr)
- BIOS 489. Ichthyology (4 cr)

**Ecology**
- BIOS 406. Insect Ecology (3 cr)
- BIOS 436. Quaternary Ecology & Climate (3 cr)
- BIOS 450. Biology of Wildlife (4 cr)
- BIOS 454. Ecological Interaction (4 cr)
- BIOS 455. Great Plains Flora (4 cr)
- BIOS 457. Ecosystem Ecology (4 cr)
- BIOS 458. Wetlands (4 cr)
- BIOS 459. Limnology (3 cr)
- BIOS 462. Animal Behavior (3 cr)
- BIOS 463. Experimental Methods in Animal Behavior (3 cr)
- BIOS 470. Prairie Ecology (4 cr)
- BIOS 472. Evolution (4 cr)

**Microbiology**
- BIOS 440. Microbial Physiology (4 cr)
- BIOS 445 & 446. Food Microbiology (5 cr)
- BIOS 447. Soil Microbiology (3 cr)
- BIOS 453. Advanced Cell Biology (2 cr)
- BIOS 464. Fisheries Biology (3 cr)
- BIOS 473. Freshwater Algae (4 cr)

**Plant**
- BIOS 374. Economic Botany (4 cr)
- BIOS 425. Plant Biotechnology (3 cr)
- BIOS 426. Plant Biochemistry (3 cr)
- BIOS 427. Comparative Physiology (3 cr)

### Chemistry Emphasis in Environmental Studies (BS degree)

**Core and Collateral Courses for BS Degree**

- CHEM 109: General Chemistry I (4 cr) and 110 General Chemistry II (4 cr) and 221 Elementary Quantitative Analysis (4 cr) or 113 Fundamental Chemistry I (4 cr) and 114 Fundamental Chemistry II (3 cr) and 116 Quantitative Chemistry Lab (2 cr)

- CHEM 251: Organic Chemistry (3 cr) and 252 Organic Chemistry (3 cr) and 253 Organic Chemistry Lab (1 cr) and 254 Organic Chemistry Lab (1 cr) and 261 Organic Chemistry (3 cr) and 262 Organic Chemistry (3 cr) and 263 Organic Chemistry Lab (1-2 cr) and 264 Organic Chemistry Lab (1-2 cr)

- CHEM 421. Analytical Chemistry (3 cr)
- CHEM 423. Analytical Chemistry Lab (2 cr)
- CHEM 471. Physical Chemistry and Lab (2 cr)

**Plus one additional 3-credit chemistry course beyond 421, 423, and 471.**

### Geography Emphasis in Environmental Studies (BA and BS degrees)

- A total of 18 credits with at least one course from A, B, and C.

#### A. Human Geography
- GEOG 120. Introductory Economic Geography (3 cr)
- GEOG 140. Introductory Human Geography (3 cr)
- GEOG 271. Geography of the United States (3 cr)
- GEOG 272. Geography of World Regions (3 cr)
- GEOG 283. Space, the Environment & You (3 cr)
- GEOG 334. Historical Geography of the Great Plains (3 cr)
- GEOG 375. Geography of Asia (3 cr)
- GEOG 447. Political Geography (3 cr)

#### B. Physical Geography
- GEOG 155. Physical Geography (4 cr)
- GEOG 450. Surficial Processes (3 cr)
- GEOG 481. Water Resources Seminar (1 cr)
- GEOG 498. Advanced Special Problems (1-24 cr)
- METR 408. Micrometeorology: The Biological Environment (3 cr)
- METR 453. Physical Climatology (3 cr)

#### C. Geographic Techniques
- GEOG 317. Cartography (14 cr)
- GEOG 412. Introduction to Geographic Information Systems (4 cr)
- GEOG 414. Quantitative Methods in Geography (3 cr)
- GEOG 418. Remote Sensing I: Photographic Sensors (4 cr)
- GEOG 419. Remote Sensing II: Non-Photographic Sensors (4 cr)

### Geology Emphasis in Environmental Studies (BS degree)

**Total Credit Hours: 26**

- GEOG 101. Physical Geology (4 cr)
- GEOG 103. Historical Geology (4 cr)
- GEOG 310. Petrology (3 cr)
- GEOG 340. Structural Geology (3 cr)
- GEOG 410. Geochemistry (3 cr)
- GEOG 450. Surficial Processes (3 cr)
- GEOG 453. Physical Climatology (3 cr)
- GEOG 481. Groundwater Geology (3 cr)
- GEOG 488. Groundwater Geology (3 cr)
- GEOG 489. Marine Geology (4 cr)
- GEOG 498. Advanced Special Problems (1-24 cr)

**Plus 3 credit hours chosen from the following:**
- GEOG 210. Inland Water, Rocks & Ores (4 cr)
- GEOG 361. Soils, Environment, & Water Quality (3 cr)
- GEOG 414. Clay Minerals (3 cr)
- GEOG 420. Siliciclastic Sedimentology (3 cr)
- GEOG 413. Computer in Geology (4 cr)
- GEOG 481. Environmental Geophysics (3 cr)
- GEOG 483. Environmental & Urban Geology (3 cr)
Courses of Instruction (ENVR)

289. Environmental Studies Sophomore Orientation (1 cr) Lec., Prereqs: Sophomore standing or transfer student with less than 72 credit hours passed N or P Pass only. O view of various emphasis options within the Environmental Studies Program through a seminar of current environmental issues.

489. Environmental Studies Seminar (1 cr, II) Lec. Prereq: Senior standing; environmental studies major or minor; permission of program director. Majors must have passed ENVR 289. Special topics speakers dealing with topics related to an environmental theme selected for its appropriate and timely nature by the Environmental Studies Coordination Committee. Topic varies.

497. Internship in Environmental Studies (1-4 cr, max 12) Lec. Prereq: Junior standing; environmental studies major; prior arrangement with and permission of environmental program director and emphasis advisor. Experience in off-campus setting that is directly relevant to environmental studies.

498. Independent Study (1-4 cr, max 12) Lec. Prereq: Environmental studies major; prior arrangement with and permission of program director and emphasis advisor.

499. Environmental Studies Senior Thesis I (1 cr) Lec. Prereq: Junior or senior standing; environmental studies major or minor; prior arrangement with program director and emphasis advisor or academic advisor. First course of a two-semester sequence of courses consisting of ENVR 499A and 499B. Pass/No Pass only. Preparation for writing the senior thesis.

499B. Environmental Studies Senior Thesis II (2 cr) Lec. Prereq: ENVR 499A. Second course of a two-semester sequence of course consisting of ENVR 499A and 499B. The thesis is to be written under the supervision of the emphasis advisor or a faculty member designated by the advisor. A committee of two (the faculty member guiding the thesis and an additional member with expertise in the topic) will review the thesis.

499H. Honors Environmental Studies Senior Thesis I & II (3 cr) Lec., rec, ind. Prereq: Junior standing; good standing in the University Honors Program; ENVR major or minor; prior arrangement with program director, emphasis advisor, and honors program advisor. For course description, see ENVR 499A and 499B.

Institute for Ethnic Studies

Director and Undergraduate Adviser: Marcela Raffaelli (psychology), 303 Seaton Hall
Program Coordinator: A. Francisco A. American and Africana Studies, 411 T. B. Latin American and African American Studies, 505 La Cienega

Requirements for the Minor in Environmental Studies

• Total 18 hours with 6 hours at 300 level or above to include:

GEOG 181. Quality of Environment (3 cr) or AGR 112
NRES 103 Food, Agriculture and Natural Resources Systems (3 cr)
ENVR 489. Environmental Studies Seminar (1 cr)

A minimum of 14 hours from the following:

ANTH 473. Ecological Anthropology (3 cr)
BIO S 207. Ecology & Evolution (4 cr) or BIO S 208
BIO S 220 Principles of Ecology* (3 cr) or
BIO S 232 Ecological Issues in the Great Plains (3 cr)

CHEM 105. Chemistry in Context I (4 cr) or
109 General Chemistry (4 cr) or 113 Fundamental Chemistry (4 cr)
ENVR 499A & 499B. Senior Thesis (3 cr)

GEO L 106. Environmental Geology (3 cr)
M E T R 200. Weather & Climate (4 cr)
NRES 323. Natural Resources Policy (3 cr)
SO CI 446. Environmental Sociology (3 cr)

* For majors in biological sciences BIO S 207 (4 cr) only is accepted.

Requirements for the Major in Ethnic Studies

1. Program of Studies

All majors must take 36 credit hours to include 18 credit hours from Groups A, B, and C (as described below) plus one of the following:

a. 6 credit hours from each of Groups D, E, and F (18 hours total)
b. 18 credit hours from one of Groups D, E, or F

Other courses (e.g., special topics, independent readings) may be substituted with the approval of the chief adviser.

No more than one half of the courses may be taken within one particular discipline (e.g., History, English). At least 12 credit hours must be taken at the 300 level or above, and at least 6 hours must be taken at the 400 level.

Students must also complete a Plan A minor from a discipline other than Ethnic Studies or one of its component programs.

A. Required courses (6 credit hours required of all majors; cannot be taken Pass/No Pass)

ENVR 100. Freshman Seminar: The Minority Experience (3 cr)

ETHN 400. Senior Seminar (3 cr)

B. Methods (3 credit hours required of all majors; check departmental listings for prerequisites)

ANTH 250. Fieldwork (1-6 cr)

ANTH 483. Advanced Field Methods (3 cr)

COMM 201. Intro to Research Methods in Communication Studies (3 cr)

ENGL 200. Intro to English Studies (3 cr)

ENGL 270. Literary/Critical Theory (3 cr)

ENGL 471. Literary Criticism (3 cr)

ETHN 487. Community-Based Research & Evaluation (ANTH 486) (3 cr)

HIST 288. Intro to Historical Methods (3 cr)

SO CI 205. Intro to Social Research I (3 cr)

SO CI 407. Strategies of Social Research: Qualitative Methods (3 cr)

PSY C 350. Research Methods & Data Analysis (3 cr)

C. Comparative Courses (9 credit hours minimum of 6 hours at 300 or 400 level)

ANTH 130. Anthropology of the Great Plains (3 cr)

ETHN 211. Intercultural Communication (COMM 211) (3 cr)

ETHN 212. Intro to Cultural Anthropology (ANTH 212) (3 cr)

ETHN 217. N Ationality & Race Relations (SO CI 217) (3 cr)

ETHN 310. Psychology of Immigration (PSY C 310) (3 cr)

ETHN 330. Multicultural Education (TEAC 330) (3 cr)

ETHN 356. Race & Ethnicity in the American West (HIST 356) (3 cr)

ETHN 425. Psychology of Racism (PSY C 425) (3 cr)

ETHN 443. Ethnic Literature (EN GL 443) (3 cr)

ETHN 448. Family Diversity (SO CI 448) (3 cr)

ETHN 481. M Internity Groups (SO CI 481) (3 cr)

POL S 260. Problems in International Relations (3 cr)

D. African American and African Studies

ENGL 454. Writing African American Literature (African American Literature Section) (3 cr)

ETHN 150. African Culture & Civilization (HIST 150) (3 cr)

ETHN 200. Intro to African American Studies (3 cr)

ETHN 238. Blacks & the American Political System (POL S 238) (3 cr)

ETHN 244. African American Literature (EN GL 244) (3 cr)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENGL 244A</td>
<td>Intro to African Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 244B</td>
<td>Black Women Authors</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 244D</td>
<td>African-Caribbean Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 244E</td>
<td>Early African American Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 245</td>
<td>Peopless &amp; Cultures of Africa</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 437</td>
<td>African American &amp; Racial Politics</td>
<td>3 cr</td>
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<tr>
<td>ANTH 240</td>
<td>The Black Family</td>
<td>3 cr</td>
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<tr>
<td>ANTH 245</td>
<td>Black Social Movements</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 456</td>
<td>Black African American Women's History</td>
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<td>ENGL 459</td>
<td>The Black West</td>
<td>3 cr</td>
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<tr>
<td>ANTH 465</td>
<td>Africa Since 1800</td>
<td>3 cr</td>
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<tr>
<td>ENTH 486</td>
<td>History of South America</td>
<td>3 cr</td>
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<tr>
<td>HIST 306</td>
<td>African American History</td>
<td>3 cr</td>
</tr>
<tr>
<td>HIST 465</td>
<td>History of Plains Indians</td>
<td>3 cr</td>
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### E. Latino and Latin American Studies

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ENGL 101B</td>
<td>Writing from Literature (Chicana Literature)</td>
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<tr>
<td>ENTH 171</td>
<td>Latin American Culture &amp; Civilization</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENTH 218</td>
<td>Chicano in American Society (SOC 218)</td>
<td>3 cr</td>
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<tr>
<td>ENTH 245D</td>
<td>Chicana and/or Chicano Literature (ENG 245D)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENTH 350</td>
<td>People &amp; Cultures of Native Latin America (ANTH 350)</td>
<td>3 cr</td>
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<tr>
<td>ENTH 357</td>
<td>The History &amp; Culture of the Mexican-American (HIST 357)</td>
<td>3 cr</td>
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<tr>
<td>ENTH 370</td>
<td>Colonial Mexico (HIST 370)</td>
<td>3 cr</td>
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<tr>
<td>ENTH 371</td>
<td>Modern Mexico (HIST 371)</td>
<td>3 cr</td>
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<tr>
<td>GEOG 378</td>
<td>Geography of Latin America</td>
<td>3 cr</td>
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<tr>
<td>HIST 471</td>
<td>Latin American &amp; the Outside World</td>
<td>3 cr</td>
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<tr>
<td>LAMS 311</td>
<td>Representative Spanish-American Authors I (SPAN 311)</td>
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<tr>
<td>LAMS 312</td>
<td>Representative Spanish-American Authors II (SPAN 312)</td>
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<tr>
<td>LAMS 331</td>
<td>Latin American Civilization (SPAN 331)</td>
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<tr>
<td>LAMS 459</td>
<td>Spanish-American Poetry (SPAN 459)</td>
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<tr>
<td>LAMS 460</td>
<td>Spanish-American Novel (SPAN 460)</td>
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<td>LAMS 462</td>
<td>Spanish-American Short Story (SPAN 462)</td>
<td>3 cr</td>
</tr>
<tr>
<td>LAMS 478</td>
<td>Pro-Seminar in Latin American Studies</td>
<td>3 cr</td>
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<tr>
<td>POLS 277</td>
<td>Latin American Politics</td>
<td>3 cr</td>
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<tr>
<td>POLS 465</td>
<td>The United States &amp; Latin America (3 cr)</td>
<td>3 cr</td>
</tr>
<tr>
<td>SPAN 463</td>
<td>Twentieth Century Spanish &amp; Spanish-American Essay</td>
<td>3 cr</td>
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</table>

### F. Native American Studies

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ANTH 232</td>
<td>Intro to Prehistory</td>
<td>3 cr</td>
</tr>
<tr>
<td>ANTH 363</td>
<td>Peoples &amp; Cultures of the Arctic Regions</td>
<td>3 cr</td>
</tr>
<tr>
<td>ANTH 419</td>
<td>Art &amp; Anthropology of Native North Americans</td>
<td>3 cr</td>
</tr>
<tr>
<td>ANTH 433</td>
<td>Native American Archaeology</td>
<td>3 cr</td>
</tr>
<tr>
<td>ANTH 434</td>
<td>Intro to Great Plains Archaeology</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 101D</td>
<td>Writing from Literature (Native American Literature Section)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 245B</td>
<td>Native American Literature</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 245N</td>
<td>Native American Women Writers</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

### G. Individualized Courses of Instruction

A total of 9 hours of individualized course work may count toward the major, but no more than 6 hours of one particular course will count toward the major. A student may choose to do the following before graduating: (1) submit a copy of a research paper, honors thesis, or major project completed during the senior year; or (2) participate in an exit interview or complete an exit survey. Results of participation in these assessment activities will not affect a student's grades or graduation.

### Requirements for the Minor in Ethnic Studies

- 18 hours from the following courses (other courses may be used with the approval of the faculty adviser):
  - ENTH 100, Freshman Seminar–The Minority Experience (3 cr)
  - ENTH 150, African Culture & Civilization (HIST 150) (3 cr)
  - ENTH 200, Intro to African American Studies (3 cr)
  - ENTH 201, Intro to Native American Studies (3 cr)
  - ENTH 211, Intercultural Communication (COMM 211) (3 cr)
  - ENTH 212, Intro to Cultural Anthropology (ANTH 212) (3 cr)
  - ENTH 217, Nationality & Race Relations (SOC 217) (3 cr)
  - ENTH 218, Chicano in American Society (SOC 218) (3 cr)
  - ENTH 238, Blacks & the American Political System (POL 238) (3 cr)
  - ENTH 242, Native American Women (HIST, WMNS 242) (3 cr)
  - ENTH 244, African-American Literature (ENG 244A) (3 cr)

### Courses of Instruction (ETHN)

- [ES] 300, Freshman Seminar–The Minority Experience (3 cr)
- ENTH 100, Freshman Seminar–The Minority Experience (3 cr)
- ENTH 150, African Culture & Civilization (HIST 150) (3 cr)
- ENTH 200, Intro to African American Studies (3 cr)
- ENTH 201, Intro to Native American Studies (3 cr)
- ENTH 211, Intercultural Communication (COMM 211) (3 cr)

### Special Topics

- [ES] 199, University Honors Seminar (3 cr)

### Minor

- [ES] 300, Freshman Seminar–The Minority Experience (3 cr)
- ENTH 100, Freshman Seminar–The Minority Experience (3 cr)
- ENTH 150, African Culture & Civilization (HIST 150) (3 cr)
- ENTH 200, Intro to African American Studies (3 cr)
- ENTH 201, Intro to Native American Studies (3 cr)
- ENTH 211, Intercultural Communication (COMM 211) (3 cr)
- ENTH 238, Blacks & the American Political System (POL 238) (3 cr)
- ENTH 242, Native American Women (HIST, WMNS 242) (3 cr)
- ENTH 244, African-American Literature (ENG 244A) (3 cr)
- ENTH 245, Black Women Authors (ENG 245B) (3 cr)
- ENTH 246, African-Caribbean Literature (ENG 246C) (3 cr)
- ENTH 247, Early African American Literature (ENG 247) (3 cr)
- ENTH 248, African-American Studies (3 cr)
- ENTH 249, African-American History (HIST 249) (3 cr)

### Minor in Political Science

- [ES] 300, Freshman Seminar–The Minority Experience (3 cr)
- ENTH 100, Freshman Seminar–The Minority Experience (3 cr)
- ENTH 150, African Culture & Civilization (HIST 150) (3 cr)
- ENTH 200, Intro to African American Studies (3 cr)
- ENTH 201, Intro to Native American Studies (3 cr)
- ENTH 211, Intercultural Communication (COMM 211) (3 cr)
- ENTH 238, Blacks & the American Political System (POL 238) (3 cr)
- ENTH 242, Native American Women (HIST, WMNS 242) (3 cr)
- ENTH 244, African-American Literature (ENG 244A) (3 cr)
- ENTH 245, Black Women Authors (ENG 245B) (3 cr)
- ENTH 246, African-Caribbean Literature (ENG 246C) (3 cr)
- ENTH 247, Early African American Literature (ENG 247) (3 cr)

### Minor in History

- [ES] 300, Freshman Seminar–The Minority Experience (3 cr)
- ENTH 100, Freshman Seminar–The Minority Experience (3 cr)
- ENTH 150, African Culture & Civilization (HIST 150) (3 cr)
- ENTH 200, Intro to African American Studies (3 cr)
- ENTH 201, Intro to Native American Studies (3 cr)
- ENTH 211, Intercultural Communication (COMM 211) (3 cr)
- ENTH 238, Blacks & the American Political System (POL 238) (3 cr)
- ENTH 242, Native American Women (HIST, WMNS 242) (3 cr)
- ENTH 244, African-American Literature (ENG 244A) (3 cr)
- ENTH 245, Black Women Authors (ENG 245B) (3 cr)
- ENTH 246, African-Caribbean Literature (ENG 246C) (3 cr)
- ENTH 247, Early African American Literature (ENG 247) (3 cr)
international business and finance, and work with international organizations both public and private with significant European interests. The program is administered by the coordinator of the European Studies program. Interested students should consult with the chief adviser/coordinator who will assist in outlining a program of studies and offer information about appropriate special topics courses taught at UNL.

**Study Abroad.** Students completing the major are strongly encouraged to complete at least a semester on a UNL-sanctioned Study Abroad program in Europe, to be chosen in consultation with the chief adviser.

**Requirements for the Major in European Studies**

The major requires 35-36 hours of approved courses. All majors will complete a 14-15 hour core program, 6 hours of one foreign language at the 300 or 400 level, and 15 additional hours of distributed electives, with course selected in consultation with the adviser to form a coherent “area of concentration” (e.g., contemporary Europe, the European Community, Slavic or Mediterranean Europe). The courses should be selected in consultation with the adviser so as to provide a coherent “area of concentration.”

**NOTE:** Students must take 6 hours at the 400 level.

- A course may not also meet Group 3 elective requirements.

**Program Assessment.** In order to assist the department in evaluating the effectiveness of its programs, majors will be required to maintain and assemble a portfolio to include evidence of foreign language ability, a copy of the research paper completed for the senior seminar, and a written student profile or exit interview with a faculty member. The undergraduate adviser will inform students of the scheduling and format of assessment activities.

Results of participation in this assessment activity will in no way affect a student's GPA or graduation.

**1. Core Courses:** Required of all students in the major program.

- **EURO 450, Senior Seminar (3 cr)** To be offered each fall.
- **HIST 101, Western Civilization Since 1715 (3 cr)**
- **GEOG 372, European Landscapes & Cultures (3 cr)**

Choose one of the following:

- **POL S 271, West European Politics (3 cr)**
- **POL S 275, Post-communist Politics (3 cr)**
- **POL S 371, Politics of the European Union (3 cr)**
- **POL S 466, Pro-seminar in International Relations (3 cr)**

Choose one of the following:

- **AHIS 341, European Art of the Nineteenth Century (3 cr)** (sophomore standing)
- **MODL 234D, Major Themes in World Literature (3 cr)**
- **MUNM 276, The Music Experience (3 cr)**
- **PHIL 232, History of Philosophy (3 cr)**
- **PHIL 333, History of Philosophy (N in twentieth century) (3 cr)**
- **PHIL 341, Contemporary Continental Philosophy (3 cr)**
- **THEA 336, History of Theatre II (3 cr)**

**2. Language requirement within the major.** 6 hours in one language at the 300 or 400 level.

- **LATN 302, 303, 304**
- **RUS S 303 and 304**
- **SPAN 300, 403, and 405**

Students who complete at least a semester at a European university where the language of instruction is other than English are exempted from this requirement. They should, however, take those courses appropriate as preparation for their particular study abroad program. Six hours of transfer credit at the 300 or 400 level from the European university program will substitute for the language requirement hours in the major program.

**3. Electives.** 15 hours including courses from at least two of the following areas: a) social sciences, b) history, c) arts and culture. The electives should be selected in consultation with the adviser so as to provide a coherent “area of concentration.”

**NOTE:** Students must take 6 hours at the 400 level.

- If a course has been taken as a core course, it may not also meet Group 3 elective requirements within the major.

**A. Social Sciences**

- **ANTH 366, Ethnology of Europe (3 cr)**
- **ANTH 438, Topics in Old World Prehistory (3 cr)**
- **ECON 321, Intro to International Economics (3 cr)**
- **ECON 388, Comparative Economic Systems (3 cr)**
- **ECON 421, International Trade (3 cr)**
- **ECON 422, International Finance (3 cr)**
- **ECON 487, Economies in Transition (3 cr)**
- **GEOG 272, Geography of World Regions (3 cr)**
- **GEOG 372, Geography of Russia (3 cr)**
- **GEOG 374, Geography of Russia (3 cr)**
- **HIST 362, Eastern Europe & the Balkans Since 1815 (3 cr)**
- **HIST 322, The Age of the Baroque (3 cr)**
- **HIST 321, The Age of the Renaissance & Reforma-
  tion (3 cr)**
- **HIST 320, Contemporary Europe (3 cr)**
- **HIST 388, War & Peace in Europe: 1914 to the Present (3 cr)**
- **HIST 362, Eastern Europe & the Balkans Since 1815 (3 cr)**
- **HIST 414, Medieval Culture (3 cr)**
- **HIST 415, The Origins of the European State (3 cr)**
- **HIST 420, The Italian Renaissance (3 cr)**
- **HIST 422, The Scientific Revolution (3 cr)**
- **HIST 423, The European Enlightenment (3 cr)**
- **HIST 424, European Social & Cultural History Since 1815 (3 cr)**
- **HIST 429, History of Fascism in Europe (3 cr)**
- **HIST 431, Medieval England (3 cr)**
- **HIST 432, England: Reformation to Revolution, 1530-1660 (3 cr)**
- **HIST 433, England: Restoration to 1789 (3 cr)**
- **HIST 434, England in the Victorian Age (3 cr)**
- **HIST 435, Twentieth-Century England (3 cr)**
- **HIST 461, The Russian Revolution (3 cr)**
- **HIST 462, Recent Russia (3 cr)**

**C. Arts and Culture**

- **AHIS 216, Medieval Art (3 cr)**
- **AHIS 221, Italian Renaissance Art (3 cr)**
- **AHIS 226, Northern Renaissance Art (3 cr)**
- **AHIS 231, Baroque Art (3 cr)**
- **AHIS 318, Late Medieval Art in Europe (3 cr)**
- **AHIS 341, European Art of the Nineteenth Century (3 cr)**
- **AHIS 346, European Art of the Twentieth Century (3 cr)**
- **AHIS 411, Classical Architecture (3 cr)**
- **CLAS 233, Science in the Classical World (3 cr)**
- **ENGL 230, English Authors to 1800 (3 cr)**
- **ENGL 231, English Authors after 1800 (3 cr)**
- **ENGL 342A, Irish Literature (3 cr)**
- **FR EN 282, French Literature in Translation I (3 cr)**
- **FR EN 301, Representative Authors I (3 cr)**
- **FR EN 302, Representative Authors II (3 cr)**
- **FR EN 321, French Civilization I (3 cr)**
- **FR EN 322, French Civilization II (3 cr)**
- **FR EN 422, Topics in French Civilization (3 cr)**
- **FR EN 445, Seventeenth Century I (3 cr)**
- **FR EN 446, Seventeenth Century II (3 cr)**
- **FR EN 449, Eighteenth Century I (3 cr)**
- **FR EN 450, Eighteenth Century II (3 cr)**
- **FR EN 453, Nineteenth Century I (3 cr)**
- **FR EN 454, Nineteenth Century II (3 cr)**
- **FR EN 457, Twentieth Century I (3 cr)**
- **FR EN 458, Twentieth Century II (3 cr)**
- **GER M 282, German Literature in Translation I (3 cr)**
- **GER M 301, Representative Authors I (3 cr)**
- **GER M 302, Representative Authors II (3 cr)**
- **GER M 321, German Civilization I (3 cr)**
- **GER M 322, German Civilization II (3 cr)**
- **GER M 445, Sixteenth & Seventeenth-Century German Literature (3 cr)**
- **GER M 447, Eighteenth-Century Literature (3 cr)**
- **GER M 448, Romanticism (3 cr)**
- **GER M 449, Survey of Nineteenth-Century German Literature I (3 cr)**
- **GER M 450, Survey of Nineteenth-Century German Literature II (3 cr)**
- **GER M 451, From Naturalism to Expressionism (3 cr)**
- **GER M 452, From the Weimar Republic into Exile (3 cr)**
- **GER M 454, German Literature & Philosophy (3 cr)**
- **GER M 455, Postwar German Literature: I. The Literature of West Germany, Austria, & Switzerland (3 cr)**
- **GER M 459, Works of Goethe & Schiller (3 cr)**
- **GER M 460, Goethe’s Faith (3 cr)**
- **MODL 234D, Major Themes in World Literature (3 cr)**
- **MUNM 350, The Great Composer (3 cr)**
- **PHIL 231, History of Philosophy (Ancient) (3 cr)**
- **PHIL 232, History of Philosophy (Modern) (3 cr)**
- **PHIL 333, History of Philosophy (Nineteenth-
  Century) (3 cr)**
- **PHIL 341, Contemporary Continental Philosophy (3 cr)**
- **PHIL 460, History of Modern Philosophy (3 cr)**
- **PHIL 471, Kant (3 cr)**
- **RUS S 301, Representative Authors I (3 cr)**
- **RUS S 302, Representative Authors II (3 cr)**
- **RUS S 398, Special Topics in Russian (3 cr)**
Electives: 9 hours selected from at least two of the
AHIS 341 and Criticism.
Film Directors, and ENGL 373 Film Theory
History, ENGL 219 Film Genre, ENGL 239
courses, with four courses serving as core
courses. The general education core and electives will be those standard for the College of Arts and Sciences.

All students enrolling in courses offered by the Department of Broadcasting must have at least 2.75 cumulative GPA. In addition, students wishing to enroll in Department of Broadcasting courses but who are not majoring in broadcasting must have the written approval of the Department of Broadcasting Chair. Courses in the Department of Broadcasting taken to meet either the major or minor in film studies cannot be counted toward completion of the major in broadcasting. Other departments may have different policies in this matter; students are advised to check with the departments in question to determine their policy in this area.

Requirements for the Minor in Film Studies

The minor requires 18 hours, including at least 12 hours from courses listed in Group A. Students are directed to course listings in Group B for additional course offerings in the film studies minor. Students must take courses in at least three departments no more than 12 hours can be taken in any one department.

All students enrolling in courses offered by the Department of Broadcasting must have at least 2.75 cumulative GPA. In addition, students wishing to enroll in Department of Broadcasting courses but who are not majoring in broadcasting must have the written approval of the Department of Broadcasting Chair. Courses in the Department of Broadcasting taken to meet either the major or minor in film studies cannot be counted toward completion of the major in broadcasting. Other departments may have different policies in this matter; students are advised to check with the departments in question to determine their policy in this area.

NOTE: Courses starred with an asterisk (*) are for either the major or the minor in film studies.

In addition to these required 12 hours of course work, 6 additional hours must be taken from Group A (see below); and 12 hours must be taken from Group B (see below).

If the 30 hours 12 hours must be taken at the 300 or 400 level, of which at least 6 hours must be taken at the 400 level. Students must take courses in at least three departments no more than 12 hours can be taken in any one department, not counting the core courses. The general education core and electives will be those standard for the College of Arts and Sciences.

Requirements for the Minor in European Studies

- 18 hours core courses required of all minors (8-9 hrs):
  - HIST 101 (3 cr)
  - POLS 271, 275, 371, or 466 or GEOG 372
  - AHIS 341 or 346 (3 cr ea) or M ODL 234D (3 cr) or
  - Phil 331

Electives 9 hours selected from at least two of the areas on the list of electives for the major; no more than 6 hours in any one area.

Courses for Instruction (EURO)

[IS] 450. Senior Seminar (3 cr) P: 18 hours in the major of admission. Treats a major topic in its European dimensions and integrates the insights of the social sciences with a historical, cultural, and artistic perspective. Includes preparation of a research project or paper on an aspect of the topic.

Film Studies

Coordinator: Professor Gwendolyn Audrey Foster
Chief Advisor: Fran Kaye, 123A Andrews Hall
Advising Center Staff: Jan Jarris
Professors: Aibel (English), Dixon (English), Dreher (English), Foster (English), Fuller (art & art history), Japp (communication studies), Mamiya (art & art history), O’womoyela (English), Potter (philosophy), Spain (broadcasting).

Mary Ripma Ross Film Theatre: Ladely

The film studies major and minor are interdisciplinary programs with courses in English, art, broadcasting, philosophy and music which focus directly or implicitly on cinema. These programs are designed for students who wish to ultimately work in academic film studies, and also for students who wish to understand film better as an art form, as popular culture, and as a major medium of communication.

Requirements for the Major in Film Studies

The major requires 30 hours of approved courses with four courses serving as core courses for the major: EN GL 213E Film History, EN GL 219 Film Genre, EN GL 239 Film Directors, and EN GL 373 Film Theory and Criticism.

Groups B

Art and Art History

Art and Art History

- 226. Intro to Broadcasting (COMM 226) (3 cr)
- 227. Principles of Audio Production (3 cr)
- 269. Field Video Production (3 cr)
- 369. News Video (3 cr)
- 455/855. Broadcast Programming (3 cr)
- 456/856. Cable Telecommunications (3 cr)
- 461/861. Instructional Television (3 cr)
- 469. Advanced Cinematography/Video Production (3 cr)
- 473. Broadcast Documentary (3 cr)
- 499. Independent Study in Broadcasting (3 cr)

English

- 209. Film: The Documentary (3 cr)
- 213E. Intro to Film History (3 cr)
- 219. Film Genre (3 cr)
- 230A. Shakespeare (3 cr)
- 239. Film Directors (3 cr)
- 239B. Women Filmmakers (3 cr)
- 259A. Writing for Film & TV (3 cr)
- 269. Film Periods (3 cr)
- 270. Literary Criticism (3 cr)
- 282. Literature & Other Arts (3 cr)
- 283. Contemporary Culture (3 cr)
- 313B. The Film Industry (3 cr)
- 315B. Women in Popular Culture (3 cr)
- 349. National Cinemas (3 cr)
- 373. Film Theory & Criticism (3 cr)
- 413/813. Film (3 cr)
- 439/839. Film Directors (3 cr)
- 459/859. Writing for Film & TV (3 cr)

Group B

Art and Art History

Art and Art History

- 262. Intermediate Photography (3 cr)
- 263. Color Photography (3 cr)
- 361. Advanced Photography I (3 cr)
- 362. Advanced Photography II (3 cr)
- 399. Special Topics in Art (3 cr)
- 461/861. Advanced Photography III (3 cr)
- 462/862. Advanced Photography IV (3 cr)
- 471/871. History of Photography (3 cr)
- 472/872. Photography Since 1960 (3 cr)
- 496. Problems in the Studio (3 cr)

* Communication Studies

- 198. Special Topics (3 cr)
- 200. Intro to Communications Studies (3 cr)
- 211. Intercultural Communication (ET HN 211) (3 cr)
- 280. Communication & Popular Culture (3 cr)
- 380. Gender & Communication (3 cr)
- 427/827. Instructional Communication (TEAC 427) (3 cr)
- 480/880. Critical & Interpretive Research (3 cr)

Music/Art and Art History/Thespo/Arts

- 388. Arts of the 20th Century: 1900-1945 (3 cr)
- 389. Arts of the 20th Century: 1945 to Present (3 cr)

Philosophy

- 372. Aesthetics (3 cr)
- 921. Aesthetics (1-2 cr)

Geography

Chair: David Wishart (anthropology and geography)
810C O’ldfather Hall
Professors: Amedeo, Archer, Lavin, Longdale (emeritus), Minton (emeritus), Stoddard (emeritus), Wishart (emeritus)
Assistant Professor: Johnson

The program of geography offers a wide variety of courses leading to the bachelor of arts and bachelor of science degrees in geography. The objectives of these programs are: 1) to support the goals of a broad liberal education by increasing awareness of the spatial, regional, and environmental aspects of the earth and its peoples; and 2) to provide a specialized knowledge of environmental processes, human-environment relations, American and foreign areas and cultures and geographic techniques such as cartography, remote sensing and geographic information analysis. An education in geography prepares students for careers in government agencies (e.g., U.S. Census Bureau, Defense Mapping Agency, as well as those involved with foreign service, land management, state tourism, health care delivery systems, environmental...
assessment, transportation development, land use planning, air traffic control, and cartographic analysis) and a wide variety of businesses, particularly those concerned with environmental mapping, geographic information systems and planning. A major in geography also prepares students for graduate-level degrees in geography, law (especially environmental law), international business, urban and regional planning, and teaching at all levels.

**Major in Geography**

The major in geography consists of seven mandatory courses with a common core in human-environmental relations. Students should begin their programs with introductory physical and human courses, then move to courses dealing with environmental issues, world regions, and courses in techniques of acquiring and displaying geographic data. An undergraduate seminar which covers historical and philosophical aspects of geography as well as practical matters such as jobs and graduate schools completes the set of mandatory courses. Beyond this core of required courses there are nine hours of electives.

**Requirements for the Minor in Geography**

- **18 hours including 10 hours in courses numbered 300 or above.**

**Graduate Work.** The advanced degrees of master of arts and doctor of philosophy in geography are offered. For details of these programs see the Graduate Studies Bulletin.

**Courses of Instruction (GEOG)**

**Human-Economic Geography**

**[ES][IS]** 120 [120x]. Introductory Economic Geography (3 cr)

Basic factors influencing the location of economic activity. Influence of space and location on the evolution and development of economic systems. World and regional patterns of economic activities.

**[ES][IS]** 140 [140x]. Introductory Human Geography (3 cr)

Students who have previously taken GEOG 100 may not receive credit for GEOG 140. Human populations, cultures, and landscapes, with particular attention to human-environment relations and global interconnections.

**[ES]** 181. Quality of the Environment (3 cr)

Analysis of human's role in altering the quality of the environment through their impact on eco-health, transformation of the landscape, and spatial organization and behavior.

**[ES]** 200. Landscape and Environmental Appreciation (HORT 200) (3 cr II) Lec 2, Lab 1.

For course description, see HORT 200.

**[ES]** 242. The Geographical Background to World Affairs (3 cr)

Outline of the geographical background to some of the world's major problems associated with the utilization of the resources of the earth. Series of lectures dealing with general problems proceeding to regional appraisals.

**[ES]** 283. Space, the Environment and You (3 cr)

Experiments to help individuals develop awareness of the extent to which their feelings and behavior are influenced by the spatial and environmental dimensions of their surroundings.

**ES** 334. Historical Geography of the Great Plains (3 cr)

Traces the sequence of the human occupancy of the Great Plains from prehistoric times to the present. Focus on the changing perception and utilization of the Great Plains environment, leading to the emergence of a distinctive contemporary region.

**[ES][IS]** 361. Urban Geography (3 cr)

Geography of cities and metropolitan areas of the past, present, and future. Spatial structures of urban settlements in North America and elsewhere examined both theoretically and descriptively.

**[ES][IS]** 400/406. Spatial and Environmental Influences in Social Systems (3 cr II)

How space, spatial structure, and spatially oriented behavior operate in social systems, emphasizing their influence on personal and social exchange.

**[ES]** 433. Cultural Geography (3 cr)

The history of cultural geography from von Humboldt through Carl Sauer to the new cultural geographies of D. M. Mitchell, G. R. Rose and N. Cabre. The current theoretical debates of feminism, post-structuralism, post-colonialism, and environmentalism, and the influences of literary and cultural studies in the development of cultural geography and the various methodologies involved.

**[ES]** 436. Cultural Survival: Indigenous People's Rights (3 cr II)

Treats against indigenous peoples' lands, resources and cultural patrimony, and languages and knowledge systems more than 500 years after the world's first European colonization, creating the first global world order. The responses of indigenous peoples to the domination of Western economic and political systems. Rights, economic development, and women's rights from the perspective of the different indigenous communities around the world.

**[ES]** 483. Industrial Location (2-3 cr)

Factors influencing U.S. firms' region selection of regions and specific communities; how communities endeavor to attract new industry, and industrial development as a social and environmental issue. Includes visits to development agencies and industrial plants.

**[IS]** 444/446. Geodemographics Theoretical Concepts and Practical Applications (3 cr)

Geodemographic analysis and interpretation of geographical patterns of population size, population composition and population change. Emphasis on applications of geodemographic techniques in fields such as retail site selection, marketing research, environmental impact analysis, public facilities planning, electoral redistricting and the operation and maintenance of socio-economically oriented geographic information systems (GIS).

**Physical Geography**

**[ES][IS]** 355. Elements of Physical Geography (4 cr)

Lecture and laboratory course. Historical and philosophical foundations of modern physical geography. Emphasis on basic factors influencing the location of economic activity, atmosphere, world regions, climate, and physical and biological science major.

Required for Great Plains Studies (2 cr)

- **For course description, see GEOG 140.**

**Physical Geography**

**[ES][IS]** 355. Elements of Physical Geography (4 cr)

Lecture and laboratory course. Historical and philosophical foundations of modern physical geography. Emphasis on basic factors influencing the location of economic activity, atmosphere, world regions, climate, and physical and biological science major.

**[IS]** 447/448. Political Geography (3 cr)

Importance of factors of a physical, economic, and human character in political development at local to global scales. Political geographers examine interactions of environment, territory, core areas, capitals, and boundaries national geopolitical patterns of voting, representation, public administration and public policy.

**[IS]** 448/449. Pro-seminar in International Relations (AECN 476/ANTH, HIST 479/879, ECON, POLS SOCI) (3 cr) Prereq: Permission. 0 per student with an interest in international relations.

For course description, see POLS 466/866.
[ES] 272. Geography of World Regions (3 cr)
A reappraisal of the relationships between the physical environment, the human resources, and economic activities for the major regions of the world. Application of fundamental geographical concepts to regional analysis.

[ES] 273. Geography of Nebraska (2-3 cr)
Survey of the physical and cultural features of the geography of Nebraska as related to the changing patterns in the human occupancy of the geographic regions of the state.

[ES] 372. European Landscapes and Cultures (3 cr)
The physical and human geographies of Europe. Population migration, land use change, and diversity of culture in Europe and selected subregions of Europe.

[ES] 374. Geography of Russia (3 cr)
Lands and peoples of Russia and affiliated republics (Ukraine, etc.) will be described in light of the environmental, social, historical, and political developments of the regions.

[ESIS] 375 [375s]. Geography of Asia (3 cr)
Patterns of physical features, population, and economic activities and other cultural aspects. Attention to India, China, and Japan.

[ESIS] 378. Geography of Latin America (3 cr)
Introduction to the geography of Mexico, Central America, the Caribbean, South America, and the Andean region: Advantage and limitations of the natural environment, population distribution, and economic development are considered regionally.

[IS] 400 800. Seminar in Great Plains Studies (GSP, HIST 400/800) (3 cr) Prereq: A course in the study of the Great Plains (GSP, GEOG/HIST 400) is required for a GSP major or minor.
For course description, see GSP 400.

For course description, see ANTH 478/878.

Techniques

[IS] 217. Map and Air Photo Interpretation (3 cr) Lec 2, plus one special session TBA.
Introduction to map and air photo interpretation. Emphasis on the practical applications of maps and air photos and the interpretation of natural and cultural features. Properties of large-scale plans and topographic maps, field use of maps, introduction of statistical maps and diagrams, underlying concepts of photogrammetry and air photo interpretation, and the uses and limitations of small-scale map projections.

312. Introduction to Geospatial Information Sciences (NRES 312) (3 cr) Lec 2, lab 2. Prereq: Junior standing, basic computer skills (spreadsheets, word processors, data and file management).
For course description, see NRES 312.

Introduction to maps and mapping with emphasis on applied and theoretical considerations in map design and construction. Students learn from specific instruction of the instructor. Opportunity to actively participate in the technical processes of data collection, cartographic design, and construction normally associated with the actual production of maps.

318. Aerial Photogrammetry and Land Use and Water Use (NRES 318) (3 cr) Lec 2, lab 1, lab 2. Applied photogrammetry and aerial photo interpretation as these relate to natural resources. Use of aerial photogrammetry and photogrammetric principles by a land manager for mapping, inventorying, managing, and administering natural resources and environments.

412 812. Field Geography (2-3 cr)
Techniques and practices used in making geographical observations in the field.

412 812. Introduction to Geographic Information Systems (NRES 412/812) (4 cr) Lec 3, lab 2. Lab exercises provide experience with GIS software. Introduction to conceptual foundations and applications of computer-based geographic information systems (G1S). GIS database development, data analysis, and spatial modeling, GIS implementation and administration.

414 814. Quantitative Methods in Geography (3 cr) Prereq: STAT 218 or 380 and 6 hrs of geography.
Introduction to quantitative techniques utilized in geographic research. Fundamentals of statistical and mathematical techniques used in analyzing spatial relationships examined.

Introduction to the tools, techniques, and analytical uses of computer mapping. Programming necessary for producing own computer mapping programs.

Computer-map design and production for the purpose of assembling an electronic atlas, using advanced computer hardware and software. Extensive discussions and demonstrations on content, design, and methods used in computer mapping.

418 818. Introduction to Remote Sensing (NRES 418/818) (4 cr) Lec 3, lab 2. Prereq: 9 hrs earth science or natural resource sciences including GEOG 150 and 152, or 155. Introduction to remote sensing of the earth from aerial and satellite platforms. Aerial photography, multispectral scanning, thermal imaging and microwave remote sensing techniques. Physical foundations of remote sensing using electromagnetic energy, energy-matter interactions, techniques employed in data acquisition and methods of image analysis. Weekly laboratory demonstrations on content, design, and methods used in remote sensing.

Fundamental principles and methods of digital image processing of remotely sensed data. Focuses on the biological basis of remote sensing and the various sensor systems typically used for terrestrial monitoring. Algorithms discussed for the preprocessing, enhancement, classification and mapping of digital data for agricultural, urban, geological, environmental, and natural resource management problems.

421 821. Field Techniques in Remote Sensing (NRES 421/821) (3 cr) Lec 1, lab 2. Prereq: NRES 418/818. For course description, see NRES 421/821.

422 822. Advanced Techniques in Geographic Information Systems (4 cr) Lec 3, lab 2. Prereq: GEOG 412/812 or equivalent. Vector and quadtree data structures, use of relational database management systems, topologically structured databases, query languages, digital terrain modeling, advanced data analysis methods and research issues in GIS. Extensive practical experience with the current GIS software.

425 825. Scientific Visualization in Cartography (4 cr) Lec 2, lab 3. Prereq: GEOG 317 and either 415 or 417, or permission.
Explores cartographic applications of computer animation and multimedia for the dual purpose of assisting visual thinking in map-oriented research and data exploration, and communicating to geographic ideas other.

483 883. Cognitive Processes in Map Comprehension and Use (3 cr) Lec 3. Prereq: GEOG 317 and 417/817. How cognitive processes help individuals to comprehend the spatial circumstances or geometric objects confronting them as they carry out their daily activities. Awareness of space, spatial knowing, formation of cognitive maps, importance of spatial images in formation of spatial maps in relation to spatial cues and layout. The relationship of cognitive maps to orientation and wayfinding.

Philosophy

402. Undergraduate Seminar (2 cr) Prereq: Open to juniors and seniors.
Introduction to contemporary philosophy of geography, bibliography, and the design of geographic research.

Special Topics

198. Special Topics in Geography (1-3 cr)
Offered from time to time by faculty members who wish to examine current problems in geography. May take a variety of forms including the freshman seminar and the minor seminar.

298. Special Topics in Geography (1-24 cr) Prereq: Permission.
Special topics concerning geographical areas.

Topics varies, see course description or registration guide.

Independent Study

399. Independent Study in Geography (1-24 cr) Prereq: Permission.

399H. Honors Course (1-4 cr) Prereq: Open to candidates for degrees with distinction, with high distinction, and with highest distinction in the College of Arts and Sciences and to seniors and especially to qualified juniors, with the consent of the instructor.

497 897. Internship in Geography (1-6 cr) Prereq: Permission.
Applying geographic training with on-the-job learning.

899. Master's Thesis (6-10 cr)
Refer to the Graduate Bulletin for 900-level courses.

Geosciences

Chair: David Watkins; 214 Bessey


Associate Professors: Anderson, Goble, Holmes, Kettler, Rowe

Assistant Professors: Frank, Houson, Istanbulbubuliuc, Scott

The Department of Geosciences offers a variety of courses leading to the bachelor of arts and bachelor of science degrees in geology and the bachelor of science degree in meteorology-climatology.

Graduate Work

The Department of Geosciences offers the master of sciences and doctor of philosophy degrees. For details see the Graduate Studies Bulletin.

Major in Geology

The Department of Geosciences offers both the bachelor of science and the bachelor of arts degrees in geology. The bachelor of science program is designed for those who expect to continue in graduate work and become professional geoscientists. Undergraduate training in geology is beneficial in many other fields such as teaching at the precollege level, urban planning, law, civil engineering, environmental studies, and museum work. Students preparing for these or similar areas are advised to take the bachelor of arts program, which is strong in fundamental geology but does not provide the ancillary requirements for admission for most graduate study in geology.

Pass No Pass. Students majoring in geology may not take major courses for Pass/No Pass credit (possible exceptions are independent study and hours in excess of those required for the major). Majors may take up to 6 hours Pass/No Pass in their minor(s), subject to the approval of the department(s) granting the minor(s). Students minoring in geology may take up to 6 hours Pass/No Pass subject to the approval of the department granting the major. To secure the necessary approval, students may take the minor in their major(s), subject to the approval of the department(s) granting the minor(s), subject to the approval of the department granting the major.

Undergraduate Adviser: Tracy D. Frank, 223 Bessey Hall (472-9799)
Requirements for the Major in Geology

Bachelor of Science. The following curriculum, leading to the bachelor of science degree, is recommended as a minimum program for the pre-professional geologist. All candidates for this degree are required to attend a field camp. The major must include 30 hours in eight courses (GEOL 101, 103, 210, 211, 310, 340, 410, and 460). An additional 12 credit hours must be acceptable electives above the 100 level, with at least one course at the 400 level. Acceptable electives include any GEOL courses at the 200, 300 or 400 level as well as METR 200 or 351.

No minor is required, however the student must complete a set of ancillary science and math requirements totaling 30 credit hours. These must include MATH 106 and 107, CHEM 109 or 113, and PHYS 141 or 142 or equivalents. The additional 6 required credit hours in science and math must consist of courses from the following list:

- ASTR 204
- BIO S 101/101L, 102, 103, 104H, 109, 112/112L, 206
- CHEM 110 or 114, 116 or 221, (251 and 253) or (261 and 263), 471
- MATH 208, 221, 380
- STAT 218
- PHYS 311, 343

A candidate for the bachelor of science in geology should complete, by the end of the sophomore year, MATH 106 and 107, CHEM 113 or equivalent and GEOL 210, 211. By the end of the junior year the student should also have completed GEOL 310 and the physics requirement. GEOL 460 is to be taken between the junior and senior years.

Professional Geologist Emphasis. Of the 30 U.S. and Canadian states and provinces, including N ebraska, require geologists whose work affects public health and safety to obtain a professional license. Students wishing to pursue professional licensure should take the required core courses as well as GEOL 488. Recommended electives include GEOL 450, 470, 472, and 485.

Sedimentology Emphasis. Students pursuing this emphasis should choose four electives from the following: GEOL 414, 420, 421, 450, 485.

Paleontology and Earth Systems Emphasis. Students pursuing this emphasis should choose four electives from the following: GEOL 417, 423, 424, 430, 431, 435.

Hydrological Sciences Emphasis. Students pursuing this emphasis should choose four electives from the following: GEOL 417, 418, 450, 465, 470, 472, 488.

Bachelor of Arts. The bachelor of arts program consists of the college comprehensive education requirements with at least one semester of chemistry and MATH 102 or 103, plus a minimum of 30 hours in geology including GEOL 101, 103, 210, 211, 310, and 340. Remaining credits in geology may include only 4 hours at the 100 level.

Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required:

1. To maintain and submit a portfolio of material produced for the required Summer Field Course, GEOL 460 (for BS students), or for the required Depositional Environments course, GEOL 310 (for BA students). Course instructors will inform students of the required contents, deadlines and procedures.

2. In their final semester, to participate in an exit interview/survey. The undergraduate adviser will inform students of the scheduling and format of their assessment activity.

Results of participation in this assessment activity will in no way affect a student’s GPA or graduation.

Requirements for the Minor in Geology

- 22 hours with only 8 hrs at the 100 level.

Field Trips. Many of the geology courses require field trips that often include camping and primitive conditions. The number of trips and their duration are a function of the requirements of the particular course.

Major in Meteorology–Climatology

The Department of Geosciences offers a program leading to the bachelor of science degree in meteorology-climatology. This program combines basic atmospheric science and climatology courses with a rigorous training in mathematics, computer science, and physics. This comprehensive degree program will prepare students for possible employment in state, federal, and private agencies which are involved in the many applied fields of meteorology-climatology. This series of courses will also assist the student in preparation for graduate-level studies in meteorology-climatology. The meteorology-climatology degree program fulfills the recommended curriculum of the American Meteorological Society (AMS) and the University Corporation for Atmospheric Research (UCAR). The degree program also meets or exceeds the minimum hiring requirements of the National Weather Service. The University of Nebraska–Lincoln is a member of UCAR. The undergraduate adviser will inform students of the required Depositional Field Course, GEOL 460 (for BS students), or at the 400 level.

Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required to complete a first stage exam over basic knowledge after having completed METR 255 and 351, and a second stage exam over intermediate and advanced meteorology/climatology knowledge after having completed METR 457, 458 and 466. The undergraduate adviser will inform students of the scheduling and format of the assessment activities.

Results of participation in these assessment activities will in no way affect a student’s GPA or graduation.

Requirements for the Minor in Meteorology–Climatology

Meteorology emphasis:

- METR 200, 255, 452, 456, 466, plus one METR course at the 400 level

Climatology emphasis:

- METR 200, 351, 453, and 9 hours from the following courses METR 408, 450, 451, 454, or 498.

Courses of Instruction

Geology (GEOL)

- [ES] 100. Introduction to Geology (3 cr) Lec 3. GEOL 100 does not fulfill the prerequisite requirement for any course in geology and does not earn credit toward the degree. GEOL 100 does not fulfill the prerequisite requirement for any course in geology and does not earn credit toward the degree. GEOL 100 does not fulfill the prerequisite requirement for any course in geology and does not earn credit toward the degree. GEOL 100 does not fulfill the prerequisite requirement for any course in geology and does not earn credit toward the degree. GEOL 100 does not fulfill the prerequisite requirement for any course in geology and does not earn credit toward the degree.

- [ES] 101. Physical Geology (4 cr) Lec 3, lab 3. Lab includes field trips; credit toward the degree may be earned in only one of GEOL 100 or GEOL 101 or GEOL 101H.

- [ES] 103. Historical Geology (4 cr) Lec 3, lab 3. Lab 3 credits toward the degree may be earned in only one of GEOL 100 or GEOL 101 or GEOL 101H.

- [ES] 104. Geology of Nebraska (3 cr) Lec 3. Lab includes field trips; credit toward the degree may be earned in only one of GEOL 100 or GEOL 101 or GEOL 101H.

- [ES] 105. Life of the Past (3 cr) Lec 3. Credit toward the degree may be earned in only one of GEOL 103 or GEOL 105.

- [ES] 106. Environmental Geology (3 cr) Lec 3. Credit toward the degree may be earned in only one of GEOL 103 or GEOL 105.

- [ES] 107. Frontiers of Earth Science (1-6 cr) Series of three- to five-week sessions, each dealing with a geologic topic of current interest and concern. Topics vary from term to term and are listed in the Schedule of Classes.

- [ES] 109. Oceanography (3 cr) Lec 3. Introduction to physical oceanography, the geologic aspects of biologic oceanography, and human impact on the oceans.


115. Water Resources Seminar (4 cr) Lec 1, Lab 1. Prereq: GEOL 210 and CHEM 113 or equivalent. Water resources: the role of water in the Earth's system and the impact of human activities on them.


118. Chemistry of Natural Waters (NRES 419/819, WATS 418/818) (1 cr) Lec 1, Lab 1. Prereq: Two semesters college chemistry or permission. Parallel GEOL 419/819. The chemical composition and properties of natural waters, with emphasis on water-rock interactions and geochemical processes involved in groundwater-surface-atmosphere system.

119. Application of Remote Sensing in Agriculture and Natural Resources (AGRO, GEOG, AGRO 419, NRES 420/820) (4 cr) Lec 3, Lab 2. Prereq: GEOL 410/810; two semesters college chemistry or permission. Principles and practical applications of remote sensing for natural resources mapping and analysis.


211. Sedimentology and Stratigraphy (3 cr) Lec 2, Lab 3. Prereq: GEOL 210 or equivalent. Principles and methods of sedimentary geology and stratigraphy.

215. Optical Mineralogy (1 cr) Lec 1. Prereq: GEOL 210 or equivalent. Identification of minerals under the microscope.

221. Borehole Geothermometry (3 cr) Lec 1, Lab 1. Prereq: GEOL 210. The use of borehole geothermometry to determine geothermals.


231/831. Micro-paleontology (3 cr) Lec 2, Lab 3. Prereq: GEOL 310. GEO 431 is open to BIO 159 majors by permission only.


236. Mammalian Paleontology (2 cr) Lec 2. Prereq: Permission or graduate standing. Survey of Mammalian faunas from the Paleocene to the present.


344/444. Paleohydrology (apan and geology of alluvial, lacustrine, and marine environments.


435/835. Vertebrate Paleontology (3 cr) Lec 2, Lab 3. Prereq: Permission or graduate standing. The evolution and classification of vertebrates.

436/836. Mammalian Paleontology (2 cr) Lec 2. Prereq: Permission or graduate standing. Survey of Mammalian faunas from the Paleocene to the present.


Spheric motions, and atmospheric thermodynamics. 

Prereq: MATH 106 or 108H; METR 200; PHYS 211.

Processes that give rise to spatial and temporal differences in climate including influence of climate on building styles, the economy, water resources, human health, and society as well as human inadvertent and purposeful modification of the atmosphere.

Independent Study (1-24 cr, max 24) Prereq: Permission.

Regional differentiation of the climates of the earth on both a descriptive and dynamic basis. Analysis of climate and factors that influence regional climates.

Regional differentiation of the climates of the earth on both a descriptive and dynamic basis. Analysis of the chief systems of classification.

Introduction to Atmospheric Science (4 cr) Prereq: MATH 101 or 108, PHYS 211.

Conceptual foundations for synoptic and dynamic meteorology. Meteorological data analysis, the dynamics of atmospheric motions, and atmospheric thermodynamics.

Spheric motions, and atmospheric thermodynamics. 

Prereq: MATH 106 or 108H; METR 200; PHYS 211.

Processes that give rise to spatial and temporal differences in climate including influence of climate on building styles, the economy, water resources, human health, and society as well as human inadvertent and purposeful modification of the atmosphere.

Independent Study (1-24 cr, max 24) Prereq: Permission.

Regional differentiation of the climates of the earth on both a descriptive and dynamic basis. Analysis of the chief systems of classification.

Introduction to Atmospheric Science (4 cr) Prereq: MATH 101 or 108H; METR 200; PHYS 211.

Conceptual foundations for synoptic and dynamic meteorology. Meteorological data analysis, the dynamics of atmospheric motions, and atmospheric thermodynamics.
adviser for each student from among the faculty fellows of the C center. Up to 6 hours of suitable internship work can be included in the 30 hours required for the major, and Great Plains Studies students are strongly encouraged to pursue an internship through the Internships C cooperative Education office as part of their program.

Program Assessment: In order to assist the department in evaluating the effectiveness of its programs, majors will be required:
1. To develop a portfolio consisting of materials from Great Plains course work, to be submitted to the undergraduate adviser at the conclusion of the Seminar in Great Plains Studies, GPSP 400. It should include the research paper from the Seminar in Great Plains Studies, as well as papers from at least three other disciplines.
2. In their senior year, to participate in an exit interview. The undergraduate adviser will inform students of the scheduling and format of assessment activities.

Results of participation in this assessment activity will in no way affect a student's GPA or graduation.

Requirements for the Minor in Great Plains Studies

- 18 hours, at least 6 at 300 level or above, including:
  - GPSP 170. Introduction to Great Plains Studies (3 cr)
  - GPSP 490. Seminar in Great Plains Studies (3 cr)
  - Three hours each from three out of four core areas approved for major.
  - Three hours to be chosen from among core course courses at large, internship, or independent study.

A. Core Courses

- All majors take at least one course from each of the following four categories:
- **Arts and Humanities**
  - A HIS 398. Great Plains Art (3 cr)
  - EN GL 211A. Literature of the Plains (3 cr)
  - EN GL 247. Literature & Arts on the Plains (3 cr)
  - EN GL 347. Humanities on the Plains (3 cr)
- **Human Heritage**
  - AN TH 434. Intro to Great Plains Archaeology (3 cr)
  - GEO G 334. Historical Geography of the Great Plains (3 cr)
  - HIST 360. History of Nebraska and the Great Plains (3 cr)
  - HIST 465. History of Plains Indians (3 cr)
- **Natural Environment**
  - BIO S 232. Ecological Issues in the Great Plains (3 cr)
  - N RES 310. Intro to Forest Management (3 cr)
- **Social Environment**
  - AN TH 130. Anthropology of the Great Plains (3 cr)
  - AN TH 352. Indigenous Peoples of the Great Plains (3 cr)
  - POL S 225. Nebraska Government & Politics (3 cr)

B. Courses at Large

- Great Plains Courses at Large
  - AECN 201. Farm & Ranch Management (4 cr)
  - AECN 265. Resource & Environmental Economics (N R E 265) (3 cr)
  - AECN 376. Rural Community Economics (3 cr)
  - AECN 388. Ethics in Agriculture & Natural Resources (ALEC 388) (3 cr)
  - AGRO 440. Great Plains Ecosystems (N R E 440) (3 cr)
  - AGRO 445. Water Management on Rangelands & Pasture (AG R E 445) (3 cr)
  - AGRO 475. Water Quality Strategy (AG R E 475) (3 cr)
  - AN TH 451. Contemporary Issues of Indigenous People in North America (ETHN 451) (3 cr)
  - BIOS 455. Great Plains Flora (4 cr)
  - BIOS 5459. Limnology (N RES 5459) (4 cr)
  - BIOS 597. Field Entomology (N RES 491) (4 cr)
  - BIOS 487. Field Parasitology (4 cr)
  - BIOS 488. Natural History of the Invertebrates (4 cr)
  - BIOS 489. Insect Physiology (N RES 489) (4 cr)
  - ENGL 245B. Canadian Literature (ETHN 245B) (3 cr)
  - ENGL 247. Literature & Arts on the Plains (3 cr)
  - ENGL 211A. Literature of the Plains (3 cr)
  - ENGL 347. Humanities on the Plains (3 cr)
  - GEO G 334. Historical Geography of the Great Plains (3 cr)
  - GEO G 481/GEOL 415) (1 cr)
  - GEO G 347. Canadian Literature (3 cr)
  - GEO G 409. Canadian Fiction (3 cr)
  - GEO G 411B. Plains Literature (3 cr)
  - GEO G 445E. Native American Literature (ETHN 445E) (3 cr)
  - GEO G 370. Geography of N ebraska (3-3 cr)
  - HIST 352. American West Since 1900 (3 cr)
  - HIST 359. The Mythic West (3 cr)
  - HIST 495. Honors Course (1-6 cr, max 6) Fld. Prereq: For GPSP 495: Junior standing, Great Plains major or minor, and permission. For GPSP 495: Honors Program.

Courses of Instruction (GPSP)

- [ES] 170. Introduction to Great Plains Studies (1-3 cr)
- AN TH 130. Anthropology of the Great Plains (3 cr)
- GEO G 334. Historical Geography of the Great Plains (3 cr)
- HIST 360. History of Nebraska and the Great Plains (3 cr)
- HIST 465. History of Plains Indians (3 cr)
- BIOL 232. Ecological Issues in the Great Plains (3 cr)
- N RES 310. Intro to Forest Management (3 cr)
- SOC 170. Introduction to Great Plains Studies (1-3 cr)
  - GEO G 489. Ichthyology (N RES 489) (4 cr)
  - BIOS 482. Field Entomology (ENTO 411) (4 cr)
  - BIOS 487. Field Parasitology (4 cr)
  - BIOS 488. Natural History of the Invertebrates (4 cr)
  - BIOS 489. Insect Physiology (N RES 489) (4 cr)
  - ENGL 245. Canadian Literature (ETHN 245) (3 cr)
  - ENGL 347. Humanities on the Plains (3 cr)
  - ENGL 445. Native American Literature (ETHN 445E) (3 cr)
  - GEO G 370. Geography of Nebraska (2-3 cr)
  - HIST 352. American West Since 1900 (3 cr)
  - HIST 359. Mythic West (3 cr)
  - MUSC 489. American Music (2-3 cr)
  - N RES 415. Water Resources Seminar (AGRO, GEO G 481/GEOL 415) (1 cr)
  - SOC 446. Environmental Sociology (3 cr)

Requirements for the Major in History

- The minimum requirement for a major in history is 32 credit hours. This requirement must include the following:
  1. Six credit hours in United States or Canadian history.
  2. Six credit hours in European history (including British history).
  3. Six credit hours in either Latin American, Asian or African history.
  4. Six credit hours in the pre-1800 period.
  5. Twelve credit hours at the 300 and/or 400 level.
  6. HIST 288 (Intro to Historical Methods) in the sophomore year, after declaring history as a major. If qualified, so, a student may write an honors thesis as an alternative to HIST 288.

Program Assessment: In order to assist the department in evaluating the effectiveness of its programs, majors will be required:
1. To maintain and assemble a portfolio to include three examples of written work. The undergraduate adviser will inform students of the required contents, deadlines, and procedures.
2. In their senior year, to complete an exit survey or participate in an exit interview. The undergraduate adviser will inform students of the scheduling and format of this assessment activity.

Results of participation in this assessment activity will in no way affect a student's GPA or graduation.

Requirements for the Minor in History

- 18 hours including 6 hours in courses numbered 300 and above.

Pass/No Pass. The Department of History accepts no more than 3 hours of credit taken Pass/No Pass for either a major or minor. This provision excludes HIST 398, which can only be taken Pass/No Pass.

Honors Program. The Department of History offers a four-year program of honors work, beginning with honors sections in the introductory courses for freshmen and sophomores. For upperclassmen, the Departmental Honors Program consists of directed reading courses and seminars. In the senior year, an honors student is expected to prepare an honors thesis for a bachelor of arts degree with distinction.
Graduate Work. The Department of History offers the advanced degrees of master of arts and doctor of philosophy. For details of these programs, see the Graduate Studies Bulletin.

Courses of Instruction (HIST)

NOTE: There are no prerequisites for history courses below the 300 level. This symbol (†) precedes a course that is also pre-1800.

United States or Canadian History

**[ES][SI] 105. American Ways (POL LS 105)** (3 cr) Prereq: Permission to attend course by invitation or permission. 200 or 202 or POL S 101. Develops a historical perspective on current American political problems. The peculiar American relationship to questions of scarcity and how our political institutions have been shaped by those questions.

**[ES][SI] 201. [201x]. American History to 1877** (3 cr) Survey of American history from the age of discovery through the Civil War and its impact on our political, economic, and social problems in the growth of the American nation.

**[ES][SI] 202. [202x]. American History After 1877** (3 cr) Emphasis on political, economic, and social problems accompanying America's rise as an industrialized world power.

**[ES][SI] 202H. Honors: American History After 1877** (3 cr) Prereq: Good standing in the University Honors Program or by invitation or permission. For course description, see HIST 202.


**[ES][SI] 241. Native American History** (ETN H 241) 3 cr) History of Native peoples of North America, focusing on peoples of the region that became the United States. Surveys major themes and issues in Native American history from origins to the present. Includes tribal cultures and political responses to environmental change over time and the effects of colonization and dominant society's imposition of patriarchy. Famous indigenous women such as: Pocahontas, Sacagawea, and the further development of mass-oriented middle and working class after World War II.

**[ES][SI] 242. Native American Women** (ETN H 242) (3 cr) Lec. 3 cr) History of indigenous women of North America. Gender roles and kinship organization, women's work and economic activities, political and diplomatic roles and everyday lives and relationships. Examines social change over time and the effects of colonization and dominant society's imposition of patriarchy. Famous indigenous women such as: Pocahontas, Sacagawea, and the further development of mass-oriented middle and working class after World War II.

**[ES][SI] 303. African American History** (ETN H 303) (3 cr) Lec. Prereq: Sophomore standing or permission. African American history from the 1830s to the Reconstruction period through the present. Social, cultural, economic and political history of the Jim Crow era, the post-Civil War era, African American experience in the urban North and West, the Civil Rights Movement, and the post-Civil Rights era.

**[ES][SI] 334. Colonial America** (3 cr) Prereq: Sophomore standing or permission. History of the peoples who settled the lands that became the United States prior to the American Revolution (1776). Encounters among Europeans, Africans, and Native Americans, the development of political economies, multi-ethnic, and religious politics, diplomatic relationships, and colonial regimes. Impact of colonialism in modern American society.

**[ES][SI] 335. The Era of the American Revolution** (3 cr) Prereq: Sophomore standing or permission. Analysis of the politics of eighteenth-century anti-imperialism and colonialism and of the impact of force and ideology on social and political institutions as well as economic patterns.

**[ES][SI] 340. American Legal History** (3 cr) Prereq: Sophomore standing or permission. Evolution of a distinct American legal culture from colonial times to the present. Emphasizes the history of the components of the legal system, the judiciary, the bar, litigants, law enforcement and corrections, and legal doctrine.

**[ES][SI] 341. American Constitutional History I** (3 cr) Prereq: Sophomore standing or permission. Survey of the origins and development of representative governmental institutions. The role of the judiciary in the forging of government as an agency for social and economic reform, and the establishment of civil and political rights for individuals and minority groups.

**[ES][SI] 342. American Constitutional History II** (3 cr) Prereq: Sophomore standing or permission. Survey of the origins and development of representative governmental institutions. The role of the judiciary in the forging of government as an agency for social and economic reform, and the establishment of civil and political rights for individuals and minority groups.

**[ES][SI] 343/443. American Urban and Social History I** (3 cr) Prereq: Sophomore standing or permission. Survey and analysis of the impact of economic development and urbanization on the organization and character of American society from colonial times through the Civil War. Analyzes the rise and fall of the Planter class and the development of the northern, urban middle class and its impact on all aspects of American history after the Civil War.

**[ES][SI] 344/444. American Urban and Social History II** (3 cr) Prereq: Sophomore standing or permission. Survey and analysis of metropolitan development, mass-oriented industrialization and economic development, and the mobilization of values, ideas, and mores on American society. The case study of one city. The city under study includes the breakdown of old criteria for group definition and their replacement by new, more impersonal, economic categories in relation to the declining role of the farmer in American life, the rise and fall of elite “society”, and the further development of mass-oriented middle and working classes after World War II.

**[ES][SI] 345. History of the American Presidency** (3 cr) Prereq: Sophomore standing or permission. Historical origins of the modern American presidency; the president's role in domestic and foreign affairs presidential power and its limits during the twentieth century; and the contemporary problems of the American presidency.


**[ES][SI] 347. History of United States Foreign Relations to 1899** (3 cr) Prereq: Sophomore standing or permission. Survey of American foreign relations from 1774 to 1899. Problems of winning and maintaining independence; a century of expansion; American military strategy; Civil War diplomacy; the emergence of the United States as a world power.

**[ES][SI] 348. History of United States Foreign Relations Since 1899** (3 cr) Prereq: Sophomore standing. Emphasis on American leadership in world affairs in the twentieth century; U.S. relations with the Far East and Latin America; the breakdown of neutrality in two world wars, the search for collective security.

**[ES][SI] 349/449. Ideas in American to the Civil War** (3 cr) Prereq: Sophomore standing or permission. Survey of the history of ideas in America from the colonial era to the Civil War, emphasizing Puritanism, the Enlightenment, and Romanticism.

**[ES][SI] 350/450. Ideas in America Since the Civil War** (3 cr) Prereq: Sophomore standing or permission. Survey of the history of ideas in America from 1865 to the present, emphasizing the impact of the Civil War, the “Second Enlightenment,” and the diverse currents of modern thought.


**[ES][SI] 352/852. American West Since 1900** (3 cr) Prereq: Sophomore standing. History of the American West since 1900. History of race, ethnic and gender: urbanization and industrialization, the modernization of values, ideas, and mores on American society, the rise and fall of elite “society”, and the further development of mass-oriented middle and working classes after World War II.

**[ES][SI] 353. From Progressivism to the Great Crash** (3 cr) Prereq: Sophomore standing or permission. The Progressive Movement, Theodore Roosevelt and the New Nationalism; Wilson and the New Freedom; World War I, the Return to Normalcy, the Jazz Age, and the Great Crash.

**[ES][SI] 354/854. The Era of Franklin D. Roosevelt** (3 cr) Prereq: Sophomore standing or permission. The Great Depression, Franklin D. Roosevelt and the New Deal, the road to Pearl Harbor, and World War II.

**[ES][SI] 355/855. Post-World War II America** (3 cr) Prereq: Sophomore standing or permission. Survey of the major developments in domestic politics, in foreign affairs, and the economic, social, and cultural spheres from the end of World War II to the present.

**[ES][SI] 356. Race and Ethnicity in the American Western History** (ETN H 356) (3 cr) Prereq: Sophomore standing or permission. Examines the significance of race and ethnicity in the history of the American West. Attention paid to Native Americans, African Americans, Asian Americans, and European ethnic groups. Includes cross-group competition for land, resources, and political/ cultural authority; gender roles; labor; the emergence of modern communities and popular culture/ mythology of the West.

**[ES][SI] 357. The History and Culture of the Mexican-American** (ETN H 357) (3 cr) Prereq: Sophomore standing or permission. Survey of Mexican-Americans in the United States emphasizing the Spanish-Mexican borderlands frontier, Mexican-American culture, the Anglo-American conquest, and the cultural conflict and fusion since the treaty of Guadalupe-Hidalgo.

**[ES][SI] 359. The Mythic West** (3 cr) Lec. Survey of the transformation of stories of the western United States from the late eighteenth century to the present. Exploration narratives, the frontier, literature, art, mass media, and images of territorial minorities and migrant and immigrant populations.


**[ES][SI] 365. U.S. South** (3 cr) Lec. Prereq: Sophomore standing. Development of a distinctive regional history from the seventeenth century onward of one of the most culturally diverse regions of the United States. The region will explore African, European, and Native American peoples in the colonial period to the late twentieth century. The emphasis in the study of the region will be on race, gender, and minority issues; and the social, political, economic, and cultural change.
ES 375. Women and Work in United States History (ECON 375) (3 cr)
For course description, see ECON 375.

ES 400. 800. Seminar in Great Plains Studies (GEOG, GSPS 400/800) (3 cr) Prereq: A course in the Study of the Great Plains or G/PSP/GEOG 411H/411 (HIST 411) for a G/PSP major or minor.
For course description, see GSPS 400.

ES 402. 802. Sexuality in Nineteenth and Twentieth Century America (W MNS 402/802) (3 cr) Lec 3.
Sexual practice and ideologies in American history from the 1800s to the present. Some of the implications of images of images to serve societal needs. Reasons behind these creations, what purposes they served, and the enormous effect on white-Native relations. Covers art, literature, fiction, film, television, and sports "masculities."

Survey and analysis of the struggle of African Americans and their allies to topple white supremacy and gain access to the political process. The role race played in American politics from the New Deal through the emergence of the New Right.

ES 441. 841. Women and Gender in the United States (W MNS 441/841) (3 cr) Lec.
Women's historical experiences, gender ideologies in American history from 1800 to the present. Impact of Europeans on Native American gender roles, race, gender, and slavery; women, science, and medicine; and women's activism.

ES 442. 842. Antebellum America 1800-1860 (3 cr) Prereq: Junior standing or permission.
American life during the first half of the nineteenth century, with special stress upon the nature of political processes, the many movements for the reform of society, the development of a national market, and the rise of sectional conflict.

ES 445. 845. The American Civil War and Reconstruction (3 cr) Lec. Prereq: Junior standing or permission.
Development of the sectional war, its impact and its impact on American institutions, reconstruction and reunion, from 1860 to 1877.

ES 446. 846. America in the "Gilded Age" (3 cr) Prereq: Junior standing or permission. Sectional adjustment, national politics; the "Gilded Age," economic growth, and the revival of imperialism in the period 1877 to 1901.

ES 447. 847. Family History of the US (3 cr) Lec. Prereq: Junior standing or permission.
Examines broad trends that underlay American family history. Introduces principles and methods of family history by exploring the impact of such demographic phenomena as population growth, migration, race, ethnicity and economic change, slavery, gender equality, marriage, gender, migration, fertility, and life expectancy.

ES 448. 848. History of Women and Gender in the American West (W MNS 448/848) (3 cr) Prereq: Junior standing.
The effect of colonization on women and gender in the American West. The impact of Spanish, French, British, and American colonization on American Indian and Spanish and/or Mexican gender systems. Migrations and immigration of Anglo, African American, and Asian women to the West; women's work and community life; and women's reform movements and activism.

Survey of African-American women's history from the 15th to the late 20th century. The transatlantic slave trade, "New World" experiences, slavery and resistance, sexual politics, the resistance and evolution, racial strife, the struggle for civil rights, and black womanist and feminist theories.

For course description, see ECON 457/857.

For course description, see ECON 458/858.

A history of African-Americans in the American West. Surveys the period from Spanish settlement to the late 20th century. Slavery and freedom; and mainstream and minority migrations; the settlement, Black Cowboys, "Black Indians," Buffalo Soldiers, black women's experiences, all-black towns, cultural persistence and evolution, racial strife, and the struggle for civil rights.

Survey and analysis of the origins, contours, activities, and implications of the civil rights movement in African American history as a form of social movement. The role race played in American politics and society. All Indian nations of the Great Plains and mainstream American society.

ES 463. 863. History of Canadian West (3 cr) Lec. Prereq: Junior standing.
Cultural encounters among Euro-Canadians, First N ations, M ines, and A fricans. Political, social, and economic developments from the 18th century to the present. Relationships of peoples and environments particularly in logging, hunting, mining, and city building. Cultural symbolism in the Canadian nation and as a point of difference from its neighbors.

Issues in Native American history. Topics may include: Native American cultures and the expansion of European influence in the 19th or 20th century, Native American politics and policy, Native American and gender, and Native Americans of regions other than the Great Plains.

In-depth study of the history and culture of Native Americans of the Great Plains from earliest times through the 20th century. Special emphasis in the history of migration, religion, diplomacy, politics, and society. All Indian nations of the Great Plains considered.

ES 466. 866. Cultural History of Native America (ETHN 466) (3 cr) Prereq: Junior standing. Cultures of the indigenous peoples of the United States in an historical context. World view, language, spiritual beliefs, kinship organization, gender roles, music and art, and H istorical causes and the effects of the changing of Native American cultures over time. Contrasts between Native American oral history and Western methods.

European History

ES 100. Western Civilization to 1715 (3 cr)
Explores topically the essential ideas and practices that have shaped the development of the Western World from the Greek Age to the Enlightenment.

ES 101. Western Civilization Since 1715 (3 cr)
A survey of topics that impact on social, economic, political, and intellectual changes upon Europe from the Enlightenment and the rise of the Middle Ages to the present. Focuses on the rise of nationalism, the impact of religion, science and culture.

ES 221. Science in History (3 cr)
Surveys the history of science from the Scientific Revolution of the seventeenth and eighteenth centuries to the present. Includes the development of modern science the theory of evolution; the revolution in physics; science and religion; and the relation of science and society.

ES 223. Spain and the Spanish Heritage (3 cr)
Important events and developments in Spanish history from earliest times to the present, with emphasis on those epochs of Spanish history that influence other world cultures and the cultural and political life of both Europe and the Western Hemisphere.

ES 231. History of England: Stonehenge through the Glorious Revolution (3 cr)
Survey of English institutions, with emphasis on the emergence of a hereditary monarchy, the evolution of parliament, the development of religious institutions, the English Reformation, and the overseas expansion of the empire through the seventeenth-century revolutions.

ES 232. History of England Since the Glorious Revolution (3 cr)
Development of the modern state and the empire; problems of a great power, industrialization, and its aftermath; Britain in the contemporary world.

ES 261. Russia to the Era of Catherine the Great (3 cr)
Historical, political, and cultural developments in Russia from the great literature to the rise of Muscovy and Imperial Russia to the end of the eighteenth century.

ES 262. Russia; The Nineteenth and Twentieth Centuries (3 cr)
Travails of Imperial Russia, both internal and external, that found their climax in the revolutions of 1917, and the efforts to implement the revolutionary mandate from 1917 to the present.

ES 301. Preindustrial Europe (3 cr) Prereq: Sophomore standing or permission.
Evolution of social and occupational groups, class consciousness, and economic forms, as conditioned by technology and modes of production, and by the city as a human and political concept, from the Greeks to the Industrial Revolution.

ES 307. 807. Early Christianity (CLAS 307/807, RELG 307) (3 cr)
For course description, see CLAS 307/807.

ES 311. The World of Homer (3 cr) Prereq: Sophomore standing or permission.
Analysis of the Aegean Bronze Age and early Iron Age of ancient Greece based on examination of archaeological evidence early written documents, and the writings of Homer and other early Greek authors. Includes the Minoan and Mycenaean civilizations, the evolution of Troy, Linear B and alphabetic Greek, with special emphasis on the social, political, and intellectual development of ancient Greece.

ES 315. Medieval World; Byzantium (CLAS 315) (3 cr) For course description, see CLAS 315.

ES 318. The Roman Empire (3 cr) Prereq: Sophomore standing or permission.
Investigation of Roman imperial government from Augustus to Justinian, focused on the economy, state religion, and the emergence of Christianity, the army, family, and social classes, the division between the Greek East and Latin West, the Germanic invasions, and the establishment of the Byzantine Empire. Failure of the ancient world to solve its problems, leading to the end of classical civilization.

Survey of cultural and intellectual developments from the dawn of the Italian Renaissance through the establishment of the Protestant Reformation in northern Europe. The decline of the church and the fragmentation of religious authority, the rise of humanism, and the secularization of politics and culture.

ES 322. The Age of the Baroque (3 cr) Prereq: Sophomore standing or permission.
Beginning of the modern era, from the age of the Reforma to the dawn of the Enlightenment, focusing on the changing role of the faith and decline of the church, the rise of the absolutist state, the development of scientific thought, and the cultural and intellectual achievements of the Baroque.
132. Europe during the Old Regime (3 cr) Prereq: Sophomore standing or permission. Survey of continental European history from 1648 to the French Revolution; the nature of the absolute state; the growth of their failures and the flowering of the Revolution; the social history of ideas from Montesquieu to Rousseau.

135. France Since the French Revolution (3 cr) Prereq: Sophomore standing or permission. History of political, intellectual, and cultural developments in France from the fall of Napoleon to the present. Traces the emergence and development of a distinctive Jewish consciousness. The role of the Enlightenment in the French Revolution, the rise of Romanticism, and the changing relationship of individual states and the super-national institutions such as the Common Market and West, and the search for new patterns. Europe's effort to comprehend the Holocaust, but also examines Nazi policies targeted against Jews, gentiles, and other groups. This course is offered under the auspices of the Nazi-German regime between 1933-1945. Policy, social, economic, institutional, and intellectual history of Europe from the Roman invasions through the accession of the Tudor dynasty in 1485.

136. Eastern Europe and the Balkans Since 1815 (3 cr) Prereq: Sophomore standing or permission. Growth of modern nationalism in the face of various movements. Eastern Europe and the Balkans as both tools and objects of influence in the twentieth century and the status of these countries in the modern world.

139. Latin American, Asian, Middle Eastern or African History (3 cr) Prereq: Junior standing or permission. Latin American, Asian, Middle Eastern or African History. Survey of the history of the Land of Israel from Biblical times to the modern world.
Survey of the history of the Jewish people from Biblical times to the present. The Old Testament, Ancient Israel, the axial relationship to Christianity and Islam, persecution and self-government in the middle ages, Jewish philosophy and mysticism, emigration, modern anti-Semitism, the Holocaust, Zionism, the modern state of Israel, and the Jewish experience in America.

Survey of the Spanish and Portuguese colonies in the New World, with attention to European background, exploration, settlement, institutions, and the struggle for independence.

Survey of the evolution of the Latin American nations since independence, with stress upon political, economic, and social problems.

Emphasis on problems deriving from relations with the West, the interconnections with the cultural, social, and religious institutions of Ancient Israel, and the war of independence (1954-62), postcolonialism, emergence of the Algerian nationalist movement, revolution and the social and economic transformation of China during the previous six centuries. Includes the rapid growth of China's population, changes in family structure and peasant social class.

From the conquest of Algeria in 1830 to the modern day, Islamic resistance to European occupation, the development of settler society and strategies of European colonialism, the emergence of the Algerian nationalist movement, revolution and the war of independence (1954-62), postcolonialism, history and memory, and current immigration debates in France.

[IS] | 331. Ancient Israel (CLASS D R ELG 331) (3 cr) Prereq: Sophomore standing or permission.
The cultural, political, and institutional foundations of Ancient Israel from their antecedents in the Late Bronze Age until the Great Jewish Revolt and the development of Rabbinic Judaism. Literary works and materials from the Israelites, and evidence from surrounding cultures.

From the preconquest (thirteenth century) to independence (1821). The foundation and development of political, social, economic, and religious patterns.

Analysis of the social, economic, and political development of M exico from 1821 to the present, emphasizing the Revolution of 1910, its background and aftermath.

[ES] 372/872. Revolutions in Twentieth-Century Latin America (3 cr) Prereq: Sophomore standing or permission.
Examination of revolutionary movements from the Revolution of 1910 in Mexico to the more recent upheavals in Central America with attention to case studies of selected countries, including political, social, and cultural factors affecting the choice of political institutions and the causes of political instability.

Analysis of premodern Japanese society with emphasis on institutional and cultural developments.

Establishment of a modern state; foundations of economic power; liberal and oligarchical rule; militarism; post-World War II developments.

[IS] | 383/883. History of Premodern China (3 cr) Prereq: Sophomore standing or permission.
History of China to 1800 with emphasis on intellectual history (Confucianism, Taoism, Buddhism), N eo-Confucianism, and the political, economic, and social development of the Chinese empire (221 BC. to 1800 AD).

Intensive study of the primary civilizations in the N ile, the Tigris and Euphrates, and the Indus river valley, as well as secondary civilizations in these general areas to ca. 1200 BC.

[IS] 466/866. Early Modern China (3 cr) Prereq: Junior standing.
China during the last dynasty, the Q iu din g, 1644 to 1911. The Conquest and unification of China by the Manchu, R ole of Confucianism in Chinese society, the growth of population during the 18th century, rise of the opium trade, the G o pium War, The Taiping Rebellion and reflux efforts.

Collapse of the old C onfucian Imperial system, B oxer Rebellion, 1922 Revolution, warlordism, rise of Communism, the Sino-Japanese war (1937-1945), C ommunist Revolu tional and C h ian M ao, Cultural Revolution, and D eng Z iaoping reforms.

469/869. Global Environmental History (3 cr) Lec. Prereq: Junior standing.
Past interrelated societies and nature in a comparative world perspective. Indigenous peoples' resource management; ecological impacts of colonization; how political economies shape resource use and determine outcomes about nature; and the historic roots of current environmental problems and possible solutions.

[IS] 471/871. Latin America and the Outside World (3 cr) Prereq: Junior standing.
Analysis of the role of the Latin American nations in world affairs emphasizing intellectual, economic, and diplomatic interactions with the world economies, secular religion, and the position and problems of Latin America in the present world.

[IS] 473/873. Spanish-American Colonial Institutions (3 cr) Prereq: Junior standing or permission.
Selected political, economic, and social institutions of Spanish America.

[IS] 475/875. History of Brazil (3 cr) Prereq: Junior standing or permission.
History of Brazil from 1500 to the present, emphasizing political and cultural development of Brazil, economic cycles, social, and religious and cultural patterns.

[IS] 478/878. Pre-modern Latin American Studies (4 cr) Prereq: Junior standing or permission.
Surveys of the social, economic, and political development including the rapid growth of population, changes in family structure and peasant life, the development of Commerce, social relations and the social and economic transformation of China during the communist era.

[IS] 480/880. The Social and Economic History of China Since the Late Ming Era (3 cr) Prereq: Junior standing or permission.
Selected topics in the later Ming era and the early Qing dynasty. Includes the growth of the population, changes in family structure and peasant life, the development of Chinese commerce, Chinese relations with the world, and the social and economic transformation of China during the communist era.

[IS] 485/885. Africa Since 1800 (ETHN 485) (3 cr) Prereq: Junior standing or permission.
Introduction to the history of Africa. African societies in the nineteenth century, focus upon African responses to European contact and control, the nature of the colonial systems, and the present status of independent nations in the twentieth century. Y ellow and white slavery, the nature and role of the Church of the Church, land, and unaided distribution of wealth.

Survey of the history of South Africa from the Stone Age to the evolution of the political, economic, legal and social frameworks of apartheid, and the efforts to achieve political accommodation.

Courses that may be United States History, European History, or Latin American, Asian or African History depending on the subject matter (See the History Department's Chief Adviser).

[IES] 182. Alpha Learning Community Freshman Seminar (3 cr) Prereq: Admission to the Alpha Learning Community Program.
Topical seminar required for all Latin American Studies majors.

[IS] | 189H. University Honors Seminar (3 cr) Prereq: Good standing in the U niversity Honors Program or by invitation.
Survey of the evolution of the Latin American nations since independence, with stress upon political, economic, and social problems.

289. Special Topics in History (1-4 cr) Includes freshman seminars.

Topics vary each term.

396. Special Problems (1-4 cr, max 24) Prereq: Permission.

397. Special Topics in History (3-24 cr) Prereq: Sophomore standing.
Topics vary.

479/879. Pro-seminar in International Relations (1-4 cr) Lec 3. ANTH 479/879 (ETHN 479/879) (3 cr) Prereq: Permission. Open to students with an interest in international relations. For course description, see POLS 466/486.

484. Readings Course (1-24 cr, max 24) Prereq: Senior standing.

899. Masters Thesis (6-10 cr)

Additional History Courses

Historical examination of the interrelationship of sport and society from ancient Greece to twentieth-century America.

Survey of the role and status of women within Western societies from ancient Greece to the twentieth century. Primary emphasis on analysis of the evolution of the position of women in society within the context imposed by cultural milieu, level of technological development, political and economic structure, family structure, and social class.

[IS] 288. Introduction to Historical Methods (3 cr) Lec 3. Prereq: HIST 181 or 281 or 282 or 383 or 384; or permission.
Introduction to methods used in the research and writing of history. Development of library skills, finding sources, analyzing documents, compiling bibliographies, writing book reviews, and preparing a term paper.

[ES] 308. History of Comparative Religion (REL 308) (3 cr) Prereq: Junior standing. For course description, see REL 308.

398. Internship in History (3 cr) Prereq: Permission of the chief adviser in the history department; Pass N o Pass only. Internship program involving community, state, or federal institutions.

399H. Honors Thesis (3 cr) Prereq: Candidate for degree with distinction or with high distinction or with highest distinction in the College of Arts and Sciences and in good standing in the University Honors Program or by invitation. A student interested in writing an Honors Thesis normally should take HIST 288 before registering for HIST 399H. Inquire with your history adviser about the matter.

[IS] 401/801. Documentary Editing (3 cr) Prereq: Junior standing or permission.
Emphasizes historical editing but pays attention to literary editing as well. Idea development, proposal writing, preparation (collection, organization, control, and selection of manuscripts, transcription of manuscripts, annotation and editorial apparatus, and preparation for publication). Other topics interpretation in editing, types of publication, proofreading, indexing, and variety in editing.

Analysis of the theory, methods, and readings in humanities computing and digital history.

[IS] 487. The Nature of History (3 cr) Prereq: Junior standing or permission.
Reading seminar on the nature of history dealing with the question of what is history, types of historical interpretation, common problems of historians, the uses of history, and the importance of history for other disciplines all of which illustrated by the writings of selected major historians and historical thinkers.

Refer to the Graduate Bulletin for 900-level courses.
Human Rights and Human Diversity

(Minor Only)

Director and Advisor: David Forsythe, 506 Oldfather Hall
Faculty: Coble (history), Forsythe (political science), Kiemola (history), Levin (history), M. C. Collough (anthropology and geography), M. C. Mahon (political science), O. Sorn (anthropology and geography), Paz (history), Rapkin (political science), Smith (history), Steinwas (history), van Rooijen (philosophy), Wedeman (political science)

The Human Rights and Human Diversity Program is an interdisciplinary program with an international focus. This minor is for students with an interest in international human rights, the development of the idea and practice of human rights over time, and in the political and philosophical tensions that arise between the protection of human rights and other goals, like the idea of respecting cultural diversity, maintaining a national identity, or protecting the security of citizens.

Requirements of the Minor in Human Rights and Human Diversity

- 18 hours taken as follows
  - 9 hours of courses from List A and 6 additional hours from List A or List B
  - 3 hours of capstone courses

Courses must be taken from at least two different departments. Cross-listed courses count in the instructor's department. If a course is taken as a capstone course, it may not also meet other requirements within the minor. Courses using the Pass/No Pass option do not count toward this minor.

List A

ANTH 451. Contemporary Issues of Indigenous People in North America
ETHN 451
ANTH 476. Human Rights, Environment & Development
HIST 329. Women in European History
(W M N S 329)
HIST 339. The Holocaust
HIST 486. History of South Africa
ETHN 486
POL S 281. Challenges to the State: Non-State Actors in World Politics
(W M N S 281)
POL S 362. Globalization, Human Rights & Diversity
POL S 469. International Law
POL S 470. International Human Rights
POL S 472. State Terror
POL S 485. Contemporary Political Theory

List B

ANTH 420. Ethnic Identity & Ethnic Conflict
ENGL 445. Ethnic Literature (ETHN 445)
(Humanist studies in the Arabic Diaspora)
HIST 225. Women in History
HIST 241. Native American History (ETHN 241)
HIST 333. Jews in the Modern World (JUDS 333)
HIST 423. The Enlightenment
HIST 429. History of Fascism in Europe

HIST 464. Native American History: Selected Topics (ETHN 464)
HIST 470. Pro-Seminar in Latin American Studies (ANTH 460/ G L A M S/ POL S 460/ SOC 470)
HIST 480. History of China since the Late Ming Era
M ODL 454. Anti-Semitism in Russia & the West
PHIL 221. Political Philosophy
PHIL 325. Advanced Social Political Philosophy
OR PHIL 425 Political & Social Philosophy
POL S 361. The United Nations & World Politics
POL S 476. Ethnic Conflict & Identity (JUDS 476)
POL S 477. Israel & the Middle East (JUDS 477)
POL S 484. Modern Political Theory

Capstone Courses

ANTH 476. Human Rights, Environment & Development
POL S 470. International Human Rights

Individualized Program of Studies (IPS)

Coordinator: Anne Kopera, 107 Oldfather Hall

The College of Arts and Sciences major or minor in Individualized Program of Studies allows a student to design an academic program to pursue a special interest not covered by the established majors or minors offered by the College. A proposal must be interdisciplinary (that is, come from more than one department), and center on a clearly defined problem area, a defined body of thought, a specific area of interest, or a specific educational goal. The program is not intended to allow students to graduate without concentrating their thoughts in some clearly defined pattern. Students intending to pursue graduate work should be sure that this particular program will meet admission requirements. Students should also be sure that the University has the resources (faculty interest and expertise) to support the anticipated Individualized Program of Studies major. Each major or minor is essentially "custom-made" to meet specific individual needs. However, the following list of titles approved programs gives an idea of some of the opportunities biomedical illustration, adolescent studies, forensic studies, biopsychology, and hospital administration. Students with interests or educational objectives that cannot be met by a traditional major or minor, more hours must be in one department in a major or minor option. For more information, interested students should contact the Chief Adviser for the program, 107 Oldfather Hall.

Pass/No Pass. A maximum of 6 hours of Pass/No Pass (P/ N) credit is allowed in courses taken to fulfill the requirements of the major or the minor.

Requirements for the Minor in Individualized Program of Studies

1. Selection of at least 24 hours of courses from more than one Arts and Sciences department representing an integrated study of some area, topic, or problem.
2. A Core Department: At least 15 of the 48 or more hours must be in one department in the College.
3. At least half of the 48 hours (24 hours) must be from the College of Arts and Sciences courses outside the College of Arts and Sciences may be applied to the 48 hours when they contribute directly and necessarily to the program.
4. The Program must be approved by the College Curriculum Committee before the student completes 90 of the 125 (or 130) applicable hours toward the degree.

Requirements for the Major in Individualized Program of Studies

1. Selection of at least 24 hours of courses from more than one Arts and Sciences department representing an integrated study of some area, topic, or problem.
2. A Core Department: At least 9 of the 24 or more hours must be in one department in the College.
3. At least half of the 48 hours (12 hours) must be from the College of Arts and Sciences courses outside the College of Arts and Sciences may be applied to the 24 hours when they contribute directly and necessarily to the program.
4. The Program must be approved by the College Curriculum Committee before the student completes 90 of the 125 (or 130) applicable hours toward the degree.

Pass/No Pass. A maximum of 6 hours of Pass/No Pass (P/ N) credit is allowed in courses taken to fulfill the requirements of the major or the minor.

International Studies

Director: TBA, 307 Seaton Hall
Chief Adviser: Charles A. Braithwaite, 420 University Terrace, #2018
Faculty: Ambrus (history), Avery (political science), Forsythe (political science), Hinchcock (anthropology and geography), LeSueur (history), Mahon (political science), McPherson (economics), Olds (modern languages & literatures), Peterson (agricultural economics), Raffaelli (psychology), Shirer (modern languages & literatures)
This program offers a major in international studies based on an interdisciplinary curriculum. The course of study concentrates on three tracks which are thematic specializations:

- Power and Production
- International Relations
- Cultural Encounters

The emphasis of the major is an holistic approach to international issues that will lead the student to a higher level of analytical competence. It will include relations between states such as war and diplomacy; global concerns such as the environment and the displacement of peoples; international organizations such as the United Nations and transnational corporations and cultural encounters such as social, linguistic and aesthetic interactions.

The program will be supervised by the International Studies Committee of the College of Arts and Sciences. All students interested in the program should consult with the Director or the chief adviser.

Pass/No Pass. Students are required to obtain permission from the chief adviser to take major or minor courses for Pass/No Pass credit. Request forms are available in the Arts and Sciences Advising Center, 107 Oldfather Hall.

Requirements for the Major in International Studies

- 36 credit hours, with no more than half the courses in one department and at least 12 hours at the 300/400 level. The 36 hours must be distributed across the categories outlined below; courses applying to Category D will normally also serve to fulfill the requirements of Category E. These specializations should be determined in consultation with the chief adviser.

Core Courses: 6 hrs
Foreign Language: 6 hrs
Global Competency: 6 hrs
Regional Specialization: 9 hrs
Thematic Specialization: 15 hrs/two tracks
International Studies Seminar or Senior Thesis: 3 hrs

Core Courses: 6 hours from two of the following:

- ANTH 212. Intro to Cultural Anthropology
- ECON 140. Intro to Human Geography
- HIST 120. World History
- POLS 160. International Relations

Foreign Language: 6 hours

This requirement can be met through the following means:

- 6 hours of modern foreign language study (excluding literature in translation) beyond 202 or 210; or
- 6 hours of modern foreign language study from other accredited institutions in cases where the language is not offered at UNL or not offered at the desired level of proficiency; or
- 6 hours or equivalent of coursework (outside of modern languages or classics) with language of instruction other than English (upon approval of program adviser)

Global Competency: 6 hours

This requirement can be met through the following means:

- Study abroad (which might include appropriate language immersion program); or
- Internship abroad (INTS 395 Internship in International Studies); or
- Internship for governmental or private agency involved in international issues (upon approval of program adviser) (INTS 390 Internship in International Studies); or
- Modern Language study (excluding literature in translation) at the 300 or 400 level (these courses are in addition to courses taken to satisfy Category B).

Regional Specialization: 9 hours in one of the following areas:

- The courses that fulfill this requirement are listed in the relevant area studies programs in the College of Arts and Sciences.
- Africa (see minor in African Studies)
- Asia (see minor in Asian Studies)
- Europe (see major in European Studies)
- Latin America (see major in Latin American Studies)

Thematic Specialization: 15 hours/two tracks

This requirement can be met by taking 15 hours to be distributed in two of the following tracks:

- Power and Production
- International Relations
- Cultural Encounters

International Studies Seminar or Senior Thesis: 3 hrs

This requirement can be fulfilled by taking an International Studies Seminar or by completing a senior thesis approved by the International Studies Committee.

Requirements for the Minor in International Studies

- 18 credit hours, with no more than half the courses in one department, and at least 9 hours at the 300/400 level.

Core Course: 3 hrs
Regional Specialization: 6 hrs
Thematic Specialization: 9 hrs

Core Course: 3 hours from the following:

- ANTH 212. Intro to Cultural Anthropology
- ECON 140. Intro to Human Geography
- HIST 120. World History
- POLS 160. International Relations

Foreign Language:

Foreign language study is not required for the minor. However, the student may apply up to 6 hours of foreign language study beyond the 202/210 level.

Regional Specialization: 6 hours in one of the following areas:

- The courses that fulfill this requirement are listed in the relevant area studies programs in the College of Arts and Sciences.
- Africa (see minor in African Studies)
- Asia (see minor in Asian Studies)
- Latin America (see major in Latin American Studies)

Thematic Specialization: 9 hours tracks

This requirement can be met by taking 9 hours from the following tracks:

- Power and Production
- International Relations
- Cultural Encounters

International Studies

Thematic Specialization: 15 hours in two of the following tracks:

1. Power and Production

- ANTH 350. People & Cultures of Native Latin America
- ANTH 360. Peoples & Cultures of Oceania
- ANTH 362. Peoples & Cultures of Africa
- ANTH 363. Peoples & Cultures of the Arctic Regions
- ANTH 365. Ethnology of Europe
- ANTH 366. Peoples & Cultures of East Asia
- ANTH 438. Topics in Old World Prehistory
- ECON 323. The Economic Development of Latin America
- ECON 388. Comparative Economic Systems
- ECON 423. Economics of the Less Developed Countries
- ECON 487. Economies in Transition
- ECON 374. Geography of Russia
- ECON 375. Geography of Asia
- ECON 378. Geography of Latin America
- HIST 100. Western Civilization to 1715
- HIST 101. Western Civilization Since 1715
- HIST 150. African Culture & Civilization
- HIST 171. Latin American Culture & Civilization
- HIST 181. Intro to East Asian Civilization
- HIST 211. History of the Middle Ages
- HIST 212. History of Early Modern Europe: Renaissance to the French Revolution
- HIST 223. Spain & the Spanish Heritage
- HIST 231. History of England: Stonehenge through the Glorious Revolution
- HIST 232. History of England: Since the Glorious Revolution
- HIST 261. Russia to the Era of Catherine the Great
- HIST 262. Russia: The Nineteenth & Twentieth Centuries
- HIST 271. Latin American Colonies
- HIST 272. The Latin American Republics
- HIST 282. Modern East Asia
- HIST 301. Preindustrial Europe
- HIST 321. The Age of the Renaissance & Reformation
- HIST 322. The Age of the Baroque
- HIST 323. Europe During the Old Regime
- HIST 325. France Since the French Revolution
- HIST 327. History of Germany: 1770-1914
- HIST 328. History of Germany: 1914 to Present
- HIST 329. Women in European History
- HIST 330. Contemporary Europe
- HIST 333. Jews in the Modern World
- HIST 339. The Holocaust
- HIST 362. Eastern Europe & the Balkans Since 1815
- HIST 370. Colonial Mexico
- HIST 371. Modern Mexico
- HIST 372. Revolution in Twentieth-Century Latin America
- HIST 381. History of Premodern Japan
- HIST 382. History of Modern Japan
- HIST 383. History of Premodern China
- HIST 415. The Origins of the European State
- HIST 420. The Italian Renaissance
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SPAN 458. Twentieth-Century Spanish Drama
SPAN 459. Spanish-American Poetry (LAMS 459)
SPAN 460. Spanish-American Novel (LAMS 460)
SPAN 462. Spanish-American Short Story (LAMS 462)
SPAN 463. Twentieth-Century Spanish & Spanish-American Essay
SPAN 470. Women Writers in Spanish America (LAMS 470)
SPAN 473. Cervantes
TH ETA 440. Continental Drama

**Courses of Instruction (INTS)**

**International Studies; and permission.**

**Junior standing with 18 credits completed toward major in International Studies.**

**Capstone course for majors in international studies.**

**Topics in Judaic Studies**

**Credits earned using the Pass/No Pass option do not count toward this minor.**

**Requirements of the Minor in Judaic Studies**

- 18 hours taken from:
  - 2 core courses: HIST 219 Intro to Jewish History and JUDS 350 Literature of Judaism
  - 12 hrs. of electives in any combination from List 1 and List 2

**Judaic Studies**

**Elective Courses**

**List 1—Judaic Studies**

JUDS 205. Intro to the Hebrew Bible/Old Testament
JUDS 217. Israel: The Holy Land
JUDS 306. Second Temple Judaism
JUDS 331. Ancient Israel
JUDS 332. Jews in the Middle Ages
JUDS 333. Jews in the Modern World
JUDS 340. Women in the Biblical World
JUDS 398. Special Topics in Judaic Studies
JUDS 408. Dead Sea Scrolls

**List 2—Other Departments**

CALS 409. Religion of Late Western Antiquity
ENGL 245J. Jewish American Fiction
ENGL 341. Judeo-Christian Literature
GEO 305. Geology & Geography of the Middle East
HEBR 101. Elementary Biblical Hebrew I
HEBR 102. Biblical Hebrew Prose
HEBR 201. Biblical Hebrew Poetry
HIST 209. Ancient Israel (3 cr)
HIST 339. The Holocaust
M ODL 232. Jewish Idea in Modern Literature
PHIL 116. Philosophy & Religious Belief
PHIL 223. Philosophy of History
PHIL 265. Philosophy & Religion
PHIL 332. Philosophy of Science (1-6 cr, 12 max)
POL 477. Israel & the Middle East
SOC 217. Nationality & Race Relations
SOC 452. Sociology of Religion

**Courses of Instruction (JUDS)**

**List 3—Judaic Studies**

177. The Holocaust in Literature and Film (M ODL 177) (3 cr)

For course description, see M ODL 177.

**List 4—Judaic Studies**

205. Introduction to the Hebrew Bible/Old Testament (R ELG 205) (3 cr)

For course description, see R ELG 205.

**List 5—Judaic Studies**

209. Judaism and Christianity in Conflict and Coexistence (R ELG 209) (3 cr)

For course description, see R ELG 209.

**List 6—Judaic Studies**

217. Israel: The Holy Land (HIST, RELG 217) (3 cr)

For course description, see HIST 217.

**List 7—Judaic Studies**

245. Jewish-American Fiction (ENGL 245J) (3 cr)

For course description, see ENGL 245J.

**List 8—Judaic Studies**

306. Second Temple Judaism (R ELG 306) (3 cr)

For course description, see R ELG 306.

**List 9—Judaic Studies**

331. Ancient Israel (CLAS, HIST, RELG 331) (3 cr)

Prereq: Sophomore standing or permission.

For course description, see HIST 331.

**List 10—Judaic Studies**

332. Jews in the Middle Ages (HIST, RELG 332) (3 cr)

Prereq: Sophomore standing or permission.

For course description, see HIST 332.

**List 11—Judaic Studies**

333. Jews in the Modern World (HIST 333) (3 cr)

Prereq: Sophomore standing or permission.

For course description, see HIST 333.

**List 12—Judaic Studies**

334. Jews, Christians and the Bible (R ELG 334) (3 cr)

For course description, see R ELG 334.

**List 13—Judaic Studies**

340. Women in the Biblical World (R ELG 340) (3 cr)

For course description, see R ELG 340.

**List 14—Judaic Studies**

345. Modern European Jewish Philosophy (PHIL 345) (3 cr)

Lec. Prereq: 3 hrs. PHIL.

For course description, see PHIL 345.

**ESIS**

350. Literature of Judaism (3 cr)

Examination of some principal texts in Jewish religion and philosophy from Biblical times to the 18th Century Enlightenment. The Hebrew Bible, and different approaches to it, as well as portions of the Talmud and the formation of rabbinic Judaism. Writings by philosophers including Maimonides, Spinoza, and others, along with narratives, poetry and legends from the 17th and 18th Centuries, which saw the development of Haskalah as well as the emergence of rationalist philosophies.

**List 15—Judaic Studies**

408. Dead Sea Scrolls (CLAS/JUDS/R ELG 408) (3 cr)

For course description, see ENGL 408.

**JUDS 462A. Ideas of Ethnicity in Medieval Literature (ENGL 462A) (3 cr)**

For course description, see ENGL 462A/462A.

**JUDS 476. Ethnic Conflict and Identity (POLS 476/876) (3 cr)**

For course description, see POLS 476/876.

**JUDS 477. Israel and the Middle East (POLS 477/877) (3 cr)**

For course description, see POLS 477/877.

**Latino and Latin American Studies**

**Coordinator and Undergraduate Adviser:**

Amelia Montes, 309 Seaton Hall

**Faculty:**

Avery (political science), Callejo (curriculum and instruction), Carranza (sociology/ethnic studies), Castillo (sociology), Garcia (curriculum and instruction), Garza (history/ethnic studies), Gonzalez (modern languages and literatures/ethnic studies), Gonzalez-Kruger (child, youth, and family studies), Hageman (sociology), Hames (anthropology and geographical analysis), Lopez (curriculum and instruction), M. M. (anthropology), M. Montes (English/ethnic studies), Moser (modern languages and literatures), Nickel (modem languages and literatures), O'sorio (veterinary science), Pastor (modern languages and literatures), Pereira (modern languages and literatures), Raffaeli (psychology/ethnic studies), Sanchez (anthropology and geographical analysis), Van Den Berg (economics), Waters (anthropology).

Latino and Latin American Studies includes a major and minor in Latin American Studies and a minor in Chicano Studies.

The major and minor in Latin American Studies are designed to provide a sound basis for undergraduate students who intend to seek employment with governmental agencies and private enterprises with operations in Latin America, as well as those who decide to undertake graduate study in some academic discipline with emphasis in this area. The Chicano Studies minor focuses on people of Latin American origin or entitlement living in the US.

**Requirements for the Major in Latin American Studies**

To complete a major in Latin American Studies, a student is expected to take at least 33 credit hours as described below. All students should have reasonable fluency in either Spanish and/or Portuguese.

The major will include:

- A, at least 9 hours selected from the following courses:
  - LAMS 311. Representative Spanish-American Authors I (SPAN 311) (3 cr)
  - LAMS 312. Representative Spanish-American Authors II (SPAN 312) (3 cr)
LAM S 331. Latin American Civilization (SPAN 331) (3 cr)
LAM S 459. Spanish-American Poetry (SPAN 459) (3 cr)
LAM S 460. Spanish-American Novel (SPAN 460) (3 cr)
LAM S 462. Spanish-American Short Story (SPAN 462) (3 cr)
LAM S 470. Women Writers of Spanish America (SPAN 470) (3 cr)
SPAN 203. Intensive Conversation (3 cr)
SPAN 300. Advanced Reading, Writing, Speaking (6 cr)
SPAN 303. Advanced Reading for Comprehension (3 cr)
SPAN 304. Advanced Reading, Writing, Speaking (6 cr)
SPAN 305. Literary Analysis in Spanish (3 cr)
SPAN 317. Intro to Linguistics (3 cr)
SPAN 319. Spanish Phonetics (3 cr)

B. Courses in at least three departments from the following:

AHIS 256. Latin American Art (3 cr)
AHIS 457. Colonial Art of Latin America (3 cr)
ECON 321. Intro to International Economics (3 cr)
ECON 322. Intro to Development Economics (3 cr)
ECON 323. Economic Development of Latin America (3 cr)
ETHN 171. Latin American Culture & Civilization (HIST 171) (3 cr)
ETHN 245D. Chicana and Chicano Literature (ENGL 245D) (3 cr)
ETHN 350. People & Cultures of Native Latin America (ANTH 350) (3 cr)
ETHN 370. Colonial Mexican (HIST 370) (3 cr)
ETHN 371. Modern Mexican (HIST 371) (3 cr)
GEOG 378. Geography of Latin America (3 cr)
HIST 223. Spain & the Spanish Heritage (3 cr)
HIST 271. Latin American Colonies (3 cr)
HIST 272. The Latin American Republics (3 cr)
HIST 372. Revolutions in Twentieth-Century Latin America (3 cr)
HIST 471. Latin America & the Outside World (3 cr)
HIST 473. Spanish-American Colonial Institutions (3 cr)
HIST 475. History of Brazil (3 cr)
MNGT 428. International Management (3 cr)
MKT 453. International Marketing (3 cr)
POLS 277. Latin American Politics (3 cr)
POLS 365. The United States & Latin America (3 cr)
TEAC 433. Comparative Education (3 cr)

C. Individualized Courses of Instruction.

A total of 9 hours of individualized course work may count toward the major, but no more than 6 hours of one particular course (i.e., LAM S 399 or LAM S 399H) will count toward the major.

D. 3-6 hours Interdisciplinary Pro-seminar 478/878 that is cross-listed in 7 departments at UNL (anthropology, educational psychology, geography, history, modern languages, political science and sociology).

A minor is also required, which may be any minor offered by the College of Arts and Sciences. A minor student who major in Latin American Studies carry a double major with Spanish, history, political science, economics, international studies, or international business, or have chosen to minor in one of those fields.

The University of Nebraska-Lincoln and the University of Nebraska at Omaha are cooperating with the Latin American Studies major. UNL students may complete their course requirements by attending classes at UNL. UNL students may take courses offered at UNO to meet some requirements for a major in Latin American Studies. Please note that UNL residency requirements still apply. Students should check with their advisor or the Latin American Studies Program Director to see if UNO equivalent courses or other courses that may apply to the Latin American Studies major. Associate Professor Lourdes Gouviea, Director of the Office of Latino and Latin American Studies at UNO is the UNO campus coordinator for our Latin American Studies Program.

E. Program Assessment

In order to assist the department in evaluating the effectiveness of its programs majors will be required to submit to the undergraduate advisor a copy of the semester project completed for the Latin American Studies Pro-seminar. The course instructor will inform majors of the deadline for submission.

A results of participation in this assessment activity will in no way affect a student’s GPA or graduation.

Requirements for the Minor in Latin American Studies

• 18 hours in modern languages and literatures as in Group A courses under the major requirements, 12 in social sciences as in Group B and C courses under the major requirements above. No more than 3 credits of LAM S 399 will count toward the minor.

UNL and UNO are also jointly cooperating in our Latin American Studies minor. See discussion above.

Requirements for the Minor in Chicano Studies

• 18 hours from the following courses (other courses may be used with the approval of the faculty advisor):

ETHN 171. Latin American Culture & Civilization (HIST 171) (3 cr)
ETHN 212. Intro to Cultural Anthropology (ANTH 212) (3 cr)
ETHN 217. Nationality & Race Relations (SO CI 217) (3 cr)
ETHN 218. Chicanos in American Society (SO CI 218) (3 cr)
ETHN 310. Psychology of Immigration (PSY C 310) (3 cr)
ETHN 330. Multicultural Education (TEAC 330) (3 cr)
ETHN 350. People & Cultures of Native Latin America (ANTH 350) (3 cr)
ETHN 357. The History & Culture of the Mexican-American (HIST 357) (3 cr)
ETHN 370. Colonial Mexican (HIST 370) (3 cr)
ETHN 371. Modern Mexican (HIST 371) (3 cr)
ETHN 481. Minority Groups (SO CI 481) (3 cr)
ENGL 101B. Composition & Literature (Chicana Literature section) (3 cr)
ENGL 245D. Chicana and Chicano Literature (3 cr)

Courses of Instruction (LAMS)

ES(IS) 311. Representative Spanish-American Authors I (SPAN 311) (3 cr) Lec. 3. Prereq: SPAN 305 or equivalent. Literature in the Spanish language and written in Spanish.

For course description, see SPAN 311.

ES(IS) 312. Representative Spanish-American Authors II (SPAN 312) (3 cr) Lec. 3. Prereq: SPAN 305 or equivalent. Literature in the Spanish language and written in Spanish.

For course description, see SPAN 312.

ES(IS) 331. Latin American Civilization (SPAN 331) (3 cr) Lec. 3. Prereq: SPAN 300 or equivalent. Lectures, discussions, and written work in Spanish.

For course description, see SPAN 331.

399H. Honors Thesis (1-6 cr, max 6) Prereq: Permission of the undergraduate honors program. Independent research or reading in Latin American Studies.


For course description, see SPAN 460/860.

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Lesbian, Gay, Bisexual, Transgender, Queer/Sexuality Studies

Lesbian, Gay, Bisexual, Transgender, Queer/Sexuality Studies

(Minor only)

Chair and Chief Advisors: Margaret Jacobs (history and women’s and gender studies), 327 Seaton Hall; Barbara DiBernard (English and women’s and gender studies), 337C Andrews Hall; Rose Holz (history and women’s and gender studies), 327 Seaton Hall

Faculty: Draper (anthropology and geography); DiBernard, H. me, O. me, O. o, R. rtie (English); H. ols, Jacobs, Levin (history); M. Kitch (psychology); H. unt (psychology); M. oore, M. oull (sociology)

The LGBT Q/Sexuality Studies minor involves the exploration and examination of sexuality and gender through historical, philosophical, literary, anthropological, scientific, sociological and other lenses. The minor gives students the opportunity to study and critically analyze the experiences of individuals concerning gender and sexuality, as well as to examine gender and sexuality in social constructions which vary throughout history and in different societies. Critical analyses concern how gender and sexuality are formed, defined, regulated, and expressed in biological, social, political, and aesthetic contexts.
Requirements for the Minor in LGBTQ/Sexuality Studies

- 18 hours of course work. 9 hours from List A including courses from three departments and at least one 400-level course or above.

List A
- ENGL 212. Intro to Lesbian & Gay Literature
- ENGL 239. Film Directors: Gay & Lesbian Directors
- ENGL 414. 20th Century Women Writers
- Lesbian Literature
- HIST 402. Sexuality in Nineteenth & Twentieth Century America (W M N S 402)
- PSY C 421. Psychology of Gender
- PSY C 471. Human Sexuality & Society
- W M N S 201. Intro to LGBTQ Studies
- W M N S 400. Senior Seminar

- 9 hours from List B with at least one course at the 400-level

NOTE:
- In courses with an asterisk, in order to count for the minor, a significant portion of course content must be related to LGBTQ/Sexuality Studies. Before enrolling, check with LGBTQ/Sexuality Studies advisor.

List B
- MATH 410. Women & Men: An Anthropological Perspective
- *ENG 245D. Chicano/a Literature
- *ENG 445. Ethnic Literature
- HIST 441. Women & Gender in the USA
- PHIL 218. Philosophy of Feminism
- SOCI 490. Sociology of Women/Gender
- SOCI 448. Family Diversity

Mathematics

Chair: John Meakin, 206 Avery Hall
Vice Chair: Jamie Radcliffe
Associate Professors: Brittenham, Chouinard, Cohn, Dong, Hernmiller, Hines, Iyengar, Ledder, M aley, Radcliffe
Assistant Professors: Foss, Lalade, R adu, Tenhumberg

Requirements for the Major in Mathematics

A strong mathematics background is essential to an increasing variety of careers. The Department of Mathematics encourages students to select a coherent body of courses in mathematics and in other disciplines that are consistent with their academic goals.

The Department of Mathematics offers four options for the major in mathematics. Each student majoring in mathematics should select an option that meets their academic needs by completing a Program Declaration form in consultation with the Department's Chief Undergraduate Adviser. Ideally, this should be done prior to completing two mathematics courses beyond the calculus sequence. As appropriate students can change their Program Declaration to select a different option or modify the program of study subject to the approval of the Chief Undergraduate Adviser.

All options for the mathematics major require:
- A complete calculus sequence: MATH 106, 107, 208 or 108H, 109H, or equivalent.
- Twenty-four hours (8 courses) selected from the Advanced M athematics C course list. A minimum cumulative GPA of 2.5 in those courses used to satisfy the Advanced Mathematics course requirements.

An approved Program Declaration form.

Program Assessment.

In order to assist the department in evaluating its programs, all majors should plan to participate in:
- a) Program Interviews
- b) an exit interview during their last semester before graduation.

Please make arrangements with the Chief Undergraduate Adviser for more information.

Option S (Statistics)

This option is recommended for students interested in a mathematics major and a strong body of course work in statistics. Specific requirements above calculus are as follows:
- T he 8 required mathematics courses must be distributed as follows: MATH 314 and MATH /STAT 380
- At least one Advanced M athematics course at the 400 level.

NOTE: For the purpose of this requirement, any 400-level statistics course may be substituted for one 400-level Advanced Mathematics course.

Two more Advanced Mathematics courses

- N ine hours of statistics numbered 300 or above in addition to MATH /STAT 380

NOTE: Under any option, students may substitute a more advanced course in the same area for a required mathematics course. Interested students should visit with the Chief Undergraduate Adviser for more information about this option.

Requirements for the Minor in Mathematics

Plan A. A complete calculus sequence plus two advanced mathematics courses.

Plan B. A complete calculus sequence.

Pass/No Pass.

For majors or minors, no calculus course can be taken Pass/No Pass. (Students in violation of this should consult with the Chief Undergraduate Adviser for possible alternative requirements.) For majors or minors at most 3 hours of the Advanced courses may be taken as Pass/No Pass.

Prerequisites. The prerequisites listed for a course may be replaced by equivalent preparation. One prerequisite for all Advanced Mathematics courses is successful completion of MATH 106-107-208 (or 108H-109H) or equivalent. Additional specific prerequisites, if any, are listed with the course. Two courses past calculus are required prerequisites for all 400-level mathematics courses. All topics, independent study, reading courses and seminars require permission of the instructor before registering; and these courses do not count toward the major requirements unless approved by the Chief Undergraduate Adviser.

NOTE: Students with previous credit in any calculus course may not register for or earn credit in MATH 100A, 101, 102, 103, or 104, without first receiving special written permission from the Chief Undergraduate Adviser.
Courses of Instruction (MATH)

Courses or special sections bearing a “T” designation are restricted to students in the M.A.T. (MScT) program. See the Graduate Studies Bulletin for further information.

Introductory Mathematics Courses

Mathematics Placement Policy: Students presenting proof of a grade of C (P) or better in the prerequisite course at UNL, UNO, or UNK are exempt from the readiness requirement. Otherwise, readiness is established by having a current, satisfactory score on the department's Mathematics Placement Exam (MPE). A score on the MPE is valid for two semesters and a summer. For more details, see the current Schedule of Classes.

100A (100x), Intermediate Algebra (3 cr) PreReq: One year high school algebra and appropriate score on the MATH Placement Exam. Credit earned in MATH 100A will not count toward degree requirements. Review of the topics in a second-year high school algebra course taught at the college level. Includes real numbers, first and second degree equations and inequalities, linear systems, polynomials, and rational expressions, exponents, and radicals. Emphasis on problem solving strategies and techniques.

101 (101x). College Algebra (3 cr) PreReq: Appropriate placement exam score; one year of college algebra or equivalent. Topics include: real numbers, exponents, factoring, linear and quadratic equations, absolute value, inequalities, functions, graphing, polynomial and rational functions, exponential and logarithmic functions, systems of equations, and systems of inequalities.

102 (102x), Trigonometry (2 cr) PreReq: One year high school geometry and either two years of high school algebra or a grade of C or better in MATH 101. Real numbers, exponents, factoring, linear and quadratic equations, absolute value inequalities, functions, graphing, polynomial and rational functions, exponential and logarithmic functions, systems of equations, and systems of inequalities.

103. College Algebra and Trigonometry (5 cr) PreReq: Placement exam score, one year high school geometry and algebra, or one year high school algebra. For students with previous college math courses, permission is also required. First and second degree equations and inequalities, absolute value, functions, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, identities, laws of sines and cosines, applications, polar coordinates, systems of equations, graphing, conic sections.

104. Calculus for Managerial and Social Sciences (3 cr) PreReq: Placement exam score or a grade of P, C, or better in MATH 101. Credit earned in MATH 104 is not allowed. Rudiments of differential and integral calculus with applications to problems from business, economics, and social sciences.

NOTE: Students with adequate high school preparation (equivalent to MATH 101 and 102) should begin with MATH 106, which is the first course in a three-semester calculus sequence. Students who have had some calculus in high school may be eligible for advanced placement and should contact the Department of Mathematics for further information. MATH 104 is recommended for students in managerial and social sciences.

Advanced Mathematics Courses

NOTE: A prerequisite for all advanced courses is successful completion of a calculus sequence. A prerequisite for all 400-level courses is two advanced math courses.

106C, Analytic Geometry and Calculus I (5 cr) PreReq: Geometry, two years of algebra, and one year precalculus-trig in high school, or MATH 102 or 103 or equivalent. MATH Placement Policy applies. Credit for both MATH 104 and 106 is not allowed.

106B. Calculus for Biology and Medicine (5 cr) Lec, rec. Prereq: One year high school geometry; two years high school algebra; and one year high school precalculus-trigonometry, or MATH 102 or 103 or equivalent. MATH Placement Policy applies. Credit toward the degree may be earned in only one of MATH 106, 221, and 221H. MATH 106B serves as a prerequisite for other courses in place of MATH 106 or 108.

107 (107x), Analytic Geometry and Calculus II (5 cr) PreReq: A grade of P, C, or better in MATH 106. Functions of one variable, limits, differentiation, integration theory, techniques of integration; applications of definite integrals. Basic and ordinary differential equations series Taylor series.

107H. Honors Calculus II (5 cr) Prereq: Good standing in the University Honors Program by invitation. Credit toward the degree may be earned in only one of MATH 107 or 108H.

108B. Calculus I (5 cr) PreReq: Good standing in University Honors Program by invitation. Credit toward the degree may be earned in only one of MATH 106, 108H or 108B.

108H. Honors Calculated I (5 or 7 cr) Prereq: Good standing in the University Honors Program or by invitation. Credit toward the degree may be earned in only one of MATH 106, 108H or 108B.

186. Mathematics for Elementary School Teachers (3 cr) Prereq: Undergraduate must be admitted to the College of Education and Human Sciences successful completion of the PPEST, and any of MATH 200, 300, or MATH 300M. Covers second half of MATH 107 and all of MATH 208.

198H. University Honors Seminar (3 cr) Prereq: Good standing in University Honors Program; credit toward the degree may be earned in only one of MATH 107, 108H or 108B. University Honors Seminar 198H is required of all students in the University Honors Program. Topics vary.

200. Mathematics for Elementary School Teachers (3 cr) Prereq: Undergraduate must be admitted to the College of Education and Human Sciences successful completion of the PPEST, and any of MATH 200, 300, or MATH 300M. Covers second half of MATH 107 and all of MATH 208.

208. Geometry for Elementary School Teachers (3 cr) Prereq: Completion of MATH 200 with a grade of C, or better in MATH 107, or by invitation. Credit toward the degree may be earned in only one of MATH 208, 208H, or 221H. For elementary education majors only.

208H. Honors Geometry for Elementary School Teachers (3 cr) Prereq: Credit toward the degree may be earned in only one of MATH 208, 208H, or 221H. Credit toward the degree may be earned in only one of MATH 208, 208H, or 221H.

211. Math Modeling (3 cr) PreReq: A grade of C or better in MATH 107. Credit toward the degree may be earned in only one of MATH 211 or MATH 302. Mathematics may be substituted for MATH 208 as meeting the ES requirement for Area B.

300M. Mathematics as a Second Language (3 cr) Lec. 3. Prereq: MATH 200 and 200H. Credit toward the degree may be earned in only one of MATH 300M, 302, or 305.

302. Math Modeling (3 cr) Lec. 3. Prereq: Admission to the College of Education and Human Sciences. Credit toward the degree may be earned in only one of MATH 300M, 302, or 305. MATH 300M is split into three sections: I, II, and III. I covers first half of MATH 208 and all of MATH 221. II covers the second half of MATH 208 and all of MATH 221H. III covers the second half of MATH 208 and all of MATH 221H. Two of the three sections may be taken.

305. Number Theory and Cryptography for Middle Level Teachers (3 cr) Lec. 3. Prereq: Admission to the College of Education and Human Sciences. Credit toward the degree may be earned in only one of MATH 300M, 302, or 305. MATH 305 is split into three sections: I, II, and III. I covers first half of MATH 208 and all of MATH 221. II covers the second half of MATH 208 and all of MATH 221H. III covers the second half of MATH 208 and all of MATH 221H. Two of the three sections may be taken.

307. Geometry and Measurement (3 cr) Lec. Credit toward the degree may be earned in only one of MATH 300M, 302, or 305. MATH 307 is split into three sections: I, II, and III. I covers first half of MATH 208 and all of MATH 221. II covers the second half of MATH 208 and all of MATH 221H. III covers the second half of MATH 208 and all of MATH 221H. Two of the three sections may be taken.

308. Analytic Geometry and Calculus I (5 cr) Lec. 5. Prereq: A grade of C or better in MATH 200. Modern elementary geometry, plane transformations and isometries, analytic geometry, sequences (dynamical systems, queuing theory), functions of several variables, partial differentiation, maximum-minimum, Lagrange multipliers, multiple integration, vector fields, path integrals, Green’s theorem, and applications.

309. Analytic Geometry and Calculus II (4 cr) Lec. 5. Prereq: A grade of C or better in MATH 200. Modern elementary geometry, plane transformations and isometries, analytic geometry, sequences (dynamical systems, queuing theory), functions of several variables, partial differentiation, maximum-minimum, Lagrange multipliers, multiple integration, vector fields, path integrals, Green’s theorem, and applications.

310. Analytic Geometry and Calculus III (4 cr) Lec. 5. Prereq: A grade of C or better in MATH 200. Modern elementary geometry, plane transformations and isometries, analytic geometry, sequences (dynamical systems, queuing theory), functions of several variables, partial differentiation, maximum-minimum, Lagrange multipliers, multiple integration, vector fields, path integrals, Green’s theorem, and applications.

311. Functions of One Variable, Limits, Differentiation, Integration Theory, Applications of Ordinary Differential Equations Series Taylor Series (4 cr) Lec. 5. Prereq: A grade of C or better in MATH 200. Modern elementary geometry, plane transformations and isometries, analytic geometry, sequences (dynamical systems, queuing theory), functions of several variables, partial differentiation, maximum-minimum, Lagrange multipliers, multiple integration, vector fields, path integrals, Green’s theorem, and applications.
322/822. Advanced Calculus (3 cr) Not open to M.A. or M.S. students in mathematics or statistics.
Unfamiliar convergence of sequences and series of functions, Green’s theorem, Stokes’ theorem, divergence theorem, line integrals, implicit and inverse function theorems, and general coordinate transformations.

324/824. Introduction to Partial Differential Equations (3 cr) Prereq: MATH 221. Not open to MA or MS students in mathematics or statistics.
Derivation of the heat, wave, and potential equations; separation of variables method of solution; solutions of boundary value problems by use of Fourier series, Fourier transforms, eigenfunction expansions with emphasis on the Bessel and Legendre functions; interpretations of solutions in various physical settings.

325. Elementary Analysis (3 cr) Introductory course emphasizing mastery of basic calculus concepts and the development of skill in constructing proofs. Includes functions, limits, continuity, differentiation, completeness of the real numbers, sequences and series, limits and continuity, derivatives, uniform convergence, Taylor’s theorem, integration, and the fundamental theorem of calculus.

340/840. Numerical Analysis (CSCE 340/840) (3 cr) Prereq: Graduate standing or consent of the instructor.
Introduction to numerical computing and removal of all entrance deficiencies in mathematics. Not intended for students who are required to take calculus. May be repeated for credit in case of C or C- in first course and a grade of B or better in the second course.

350. Statistics and Applications (STAT 380) (3 cr) Prereq: MATH 107 or 107H.
For course description, see STAT 380.

385. Mathematical Logic (CSCE 365/865) (3 cr) Lec. Prereq: Admission to the MAT or MScT program in mathematics or to a graduate program in the College of Education and Human Sciences.
Introduction to mathematical logic, including propositional logic, predicate logic, discussion of several propositional calculi, applications to computer science, and related topics.

400. Mathematics for High School Teachers I (3 cr) Prereq: RESD and 120 or their equivalents.
Analysis of the connections between college mathematics and high school algebra and geometry.

408. Mathematics for High School Teachers II (3 cr) Prereq: MATH 310 or their equivalents.
Analysis of the connections between college mathematics and high school algebra and geometry.

Elements of group theory and ring theory, including fundamental isomorphism theorems, ideals, quotient rings, domains, Euclidean or principal ideal rings, unique factorization, modules and vector spaces, including direct sum decompositions, bases, and dual spaces.

423/823. Introduction to Complex Variable Theory (3 cr) Advanced introductory course for engineering, physical sciences, and mathematics majors. Complex numbers, functions, complex variables, analytic functions, complex integration, Cauchy’s integral formulas, Taylor and Laurent series, calculations of residues, conformal mappings, harmonic functions, and some applications.

425. Mathematical Analysis (3 cr) Prereq: MATH 325 or permission.
Real number system, topology of Euclidean space and metric spaces, compactness, sequences, series, convergence and uniform convergence, and continuity and uniform continuity.


430/830. Ordinary Differential Equations I (3 cr) Prereq: MATH 221.
Picard existence theorem, linear equations and linear systems, Sturm separation theorems, boundary value problems, phase plane analysis, stability theory, limit cycles, and periodic solutions.

431/831. Ordinary Differential Equations II (3 cr) Prereq: MATH 221.
Continuation of MATH 430.

432/832. Linear Optimization (3 cr) Prereq: MATH 314.
M. Mathematical theory of linear optimization, convex sets, simplex method, duality, multiple objective linear programs, formulation of mathematical models.

M. Mathematical theory of constrained and unconstrained optimization, conjugate direction and quasi-Newton methods, convex functions, Lagrange multiplier theorem, constraint qualifications.

439/839. Mathematical Models in Biology (3 cr) Prereq: MATH 310 or their equivalents.
Introduction to a selection of topics in modern differential equations and applications or tensors. Complex function theory, integration of functions of complex variables, analytic functions, complex integration, Cauchy’s integral formulas, Taylor and Laurent series, conformal mappings, harmonic functions, and some applications.

441/841. Approximation of Functions (3 cr) Prereq: MATH 221.
Methods of approximation of functions, interpolation and numerical differentiation, numerical integration, numerical optimization, and singular perturbation methods and asymptotic expansion of integrals. Calculus of variations.

For course description, see CSCE 447/847.

450/850. Combinatorics (3 cr) Lec. Prereq: MATH 310 or 325.
Theory of enumeration and/or existence of arrangements of objects. Propositional logic, proof construction, recursion relations, generating functions, systems of direct representations, combinational designs and other applications.

452/852. Graph Theory (3 cr) Lec. Prereq: MATH 450, or permission and one of MATH 310 or 325. Selected topics in the theory of directed and undirected graphs, subgraphs, matrix representations, coloring problems, and planar graphs. Methods which can be derived from combinatorial arguments.

456/856. Differential Geometry (3 cr) Prereq: MATH 221, 314, and 322.
Introduction to a selection of topics in modern differential geometry, vector bundles, vector fields, differential forms, Stokes’ theorem, Riemannian and semi-Riemannian manifolds, Lie Groups, connections, singularities. Includes gauge field theory, catastrophe theory, general relativity, fluid flow.

Sequent and syntactical developments of propositional logic, disjunction of several propositional calculi, applications to Boolean algebra and related topics, trees, and syntactic and semantic properties of first-order predicate logic including Gödel’s completeness theorem, the compactness theorem.

489/889. Stochastic Processes and Advanced Mathematical Finance (3 cr) Lec. Prereq: MATH 221 and 314 or their equivalents.

807T. Mathematics as a Second Language (3 cr) Prereq: Admission to the MAT or MScT program in mathematics or to a graduate program in the College of Education and Human Sciences.
Introduction to the mathematical knowledge of middle-level mathematics teachers.

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Introduction to the mathematical knowledge of middle-level mathematics teachers.
2. Assessment:

1. Faculty: Medieval and Renaissance courses. Refer to the Graduate Bulletin for 900-level courses. by invitation. Prereq: Good standing in the University Honors Program or only.

2. Required courses (for a total of 9 hours):

   - AHIS 216 Medieval Art
   - AHIS 221 Italian Renaissance Art
   - AHIS 226 Northern Renaissance Art
   - PHIL 335 Medieval Philosophy
   - PHIL 336 Ethics Ancient & Medieval
   - PHIL 337 Knowledge Ancient & Medieval
   - PHIL 338 Metaphysics Ancient & Medieval

3. Electives: 9 hours from courses listed below.

4. One of the following:

   - An honors thesis, a 900-level Interdisciplinary Seminar open to undergraduates with permission), or a 300- or 400-level Directed Reading resulting in a substantial research paper.

5. Electives: 15 hours, selected in consultation with the adviser to form a coherent area of concentration. The 15 hours must include at least two of the following three areas: history, literature, and the humanities. All course offerings for Medieval and Renaissance Studies are listed below.

   - Pass/No Pass. Students must obtain permission from the program adviser to take courses for Pass/No Pass credit. Request forms are available in the Arts and Sciences Advising Center.

6. Requirements for the Minor in Medieval and Renaissance Studies:

   - The minor requires a minimum of 18 hours of study, 6 credits above 299.

   - Required courses (for a total of 9 hours):
     - O ne of the following:
       - HIST 420 The Italian Renaissance
       - HIST 421 The Age of Religious Reform
       - CLAS 282 World of Classical Rome
       - EN GL 362 Intro to Medieval Literature
       - EN GL 363 Intro to Renaissance Literature
       - GER M 445 Sixteenth Century German Literature
       - R ELG 206 Ways of Western Religion
       - SPAN 421 Medieval Literature
       - SPAN 441 Golden Age Poetry
       - SPAN 442 Golden Age Prose
     - Other areas include:
       - PHIL 335 Medieval Philosophy
       - PHIL 336 Ethics Ancient & Medieval
       - PHIL 337 Knowledge Ancient & Medieval
       - PHIL 338 Metaphysics Ancient & Medieval

   - Electives: 9 hours from courses listed below.

   - Medieval and Renaissance Studies Courses (by department)

     - Art and Art History
       - ART 300 Architectural History & Theory I
       - ART 302 Architectural History & Theory II

     - Classics and Religious Studies
       - CLAS 380 Classical Mythology
       - CLAS 381 The World of Classical Greece
       - EN GL 382 The World of Classical Rome

     - English
       - EN GL 210L Arthur in Literature & Legend
       - EN GL 220L English Authors to 1800
       - EN GL 230A Shakespeare
       - EN GL 315A Survey of Women's Literature: Medieval Women Authors
       - EN GL 330E Chaucer/ Shakespeare/ Milton
       - EN GL 340 Classical Roots of English Literature
       - EN GL 362 Intro to Medieval Literature
       - EN GL 363 Intro to Renaissance Literature
       - EN GL 426 History of the English Language
       - EN GL 430A Shakespeare I
       - EN GL 462 Survey of Medieval Literature
       - EN GL 463 Survey of Renaissance Literature
       - EN GL 489 Medieval Literature & Theology

   - History
     - HIST 100 Western Civilization to 1715
     - HIST 211 History of the Middle Ages
     - HIST 212 History of Early Modern Europe to 1789
     - HIST 217 Israel: The Holy Land (JU DS, R ELG 217)
     - HIST 218 History of Islam
     - HIST 219 Intro to Jewish History (JU DS, R ELG 219)
     - HIST 220 History of Christianity
     - HIST 231 English History: Stonehenge through the Glorious Revolution
     - HIST 261 Russia to the Era of Catherine the Great
     - HIST 301 Pre-Industrial Europe
     - HIST 307 Early Christianity (CLAS, R ELG 307)
     - HIST 318 Roman Empire
     - HIST 321 The Age of the Renaissance & Reformation
Modern Languages and Literatures

Chair: Russell Ganim, 1111 Oldfather Hall
Vice Chair: Radha Balasubramanian
Professors: Carr, Fouletier-Smith, E. Jacobson, M. Jacobson, O. Ide, Turner
Associate Professors: Asato, Balasubramanian, Brantner, Ganim, Gonzalez, Hayden-Roy, Mejias-Bikandi, N. Nickel, Pasten, Pereira, Sako-Pierce, Shiner, Stump, W. Ilhemsen
Assistant Professor: Guevara, Kalisa

The Department of Modern Languages and Literatures offers courses in German, Japanese, the Romance Language group (French, Spanish), and the Slavic group (Czech, Russian). Whenever possible, the courses are conducted in the language that is studied. The aim of instruction is reading, writing, aural and oral proficiency, and an understanding of the life, literature, and culture of the country. Lectures and films in the language studied are offered during the school year for the benefit of the students in the department. Language laboratories supplement class work.

Placement

Incoming students who wish to enter the University's language program in French, Spanish, and German are required to take the Computer Assisted Placement Examination (CAPE). The results of the placement exam, together with training in a secondary school university, or other prior second language environments, will assist students in finding the level at which they will have the greatest opportunity for success. The examination results will be used in combination with advising to determine appropriate placement in the sequence of courses offered within the department's curriculum. CAPE is administered in the language laboratory (302 Burnett Hall). Those students exempted from this requirement are expected to enroll in a first semester elementary course (101). Students qualifying for this exemption are defined as follows:

1. Students who have no previous second language exposure whatsoever.
2. Students whose second language exposure amounts to one year or less at the U.S. high school level.
3. Students who wish to begin study of a new language other than those previously studied.

For other languages placement is generally determined by the following criteria for students who come to the University with:

1. 1 semester of a language in high school should take 101 (same language or a new one);
2. 2 or 3 semesters in high school should take 102 (same language);
3. 4 or 5 semesters in high school should take 201;
4. 6 semesters in high school should take 202;
5. 8 semesters or more in high school should take 301.

The department participates in the following interdisciplinary study programs European Studies, Institute for Ethnic Studies, International Studies, Latin American Studies, Medieval and Renaissance Studies, and Women's and Gender Studies. See the index for a guide to these programs.

PASS/NO PASS

No courses in the department may be taken by students majoring or minoring in modern languages for PASS/NO PASS credit.

Audiencing

Audencias are allowed in 101 in French, German and Spanish only upon recommendation of the Modern Language Placement Advisors. Otherwise no audits are allowed in 100 and 200-level classes.

Requirements for the Major in Modern Languages

French - 24 hours of courses numbered 300 or above including 301, 302, 303, and 304, and 9 hours at the 400 level. Three hours at the 400 level must be in literature courses.

German - 20 hours of courses numbered 300 or above including 301, 302, 303, and 304, and 6 hours at the 400 level.

Russian - 21 hours of courses numbered 300 or above, including 303 and 304 and 6 hours at the 400 level.

Spanish - 24 hours of courses numbered at 305 or above. In addition, students choose 6 hours from 317, 319, 321, 331; 6 hours from 311, 312, 314, 315; and 9 hours at the 400 level, with at least 6 of these hours in literature courses.

A minor is required and may be taken in any area.

French and Russian Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required to assemble and maintain a portfolio. In their junior year, majors will be assigned a faculty adviser who will inform students of the required contents of the portfolio, deadlines and procedures. During their last semester, French and Russian majors will be required to provide oral and written assessment for their portfolios.

Results of participation in this assessment activity will in no way affect a student's GPA or graduation.

German Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required to assemble and maintain a portfolio. In their junior year, majors will be assigned a faculty advisor who will inform students of the required contents of the portfolio, deadlines and procedures. By their senior year, majors will be required to complete a taped oral proficiency interview.

Results of participation in this assessment activity will in no way affect a student's GPA or graduation.

Spanish Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required to assemble a portfolio. A faculty advisor will inform students of the required contents of the portfolio, deadlines and procedures. During their last semester, Spanish majors will be required to provide oral and written materials for their portfolios.

Results of participation in this assessment activity will in no way affect a student's GPA or graduation.

Requirements for the Minor in Czech, French, German and Russian

- Czech offers a Plan B minor only.

Plan A. 12 hours in one language at the 300 level or 400 level, including at least 6 hours from 301, 302, 303, 304, and 3 hours at the 400 level.
Plan B. 6 hours in one language, in courses numbered above 300, including at least 3 hours from 301, 302, 303, 304.

Plan B. 9 hours in French in courses numbered above 300, including at least 3 hours from 301, 302, 303, 304.

Requirements for the Minor in Japanese

Plan A. 6 hours in Japanese language in courses numbered above 300, including at least 3 hours from 301, 302, 303, 304.

Plan B. 22 hours in Japanese language course work including 101, 102, 201, 202, 203, 204.

Requirements for the Minor in Spanish

Plan A. 12 hours of courses numbered at 305 or above. In addition to 305 (which is compulsory for Plan A), 6 hours from 311 and 312, 314, 315; and 3 hours from 317, 319, 321 or 331.

Plan B. 6 hours from 305, 317, 319, 321, or 331.

Literature in Translation

The Department offers the following literature in translation courses for which no knowledge of a foreign language is necessary. Check the Schedule of Classes to determine which are being taught in any given semester: M O D L 230, T H E Individual in Renaissance Society; 234, M a g o r Themes in World Literature; 289/386, Special Topics 470, Introduction to Literary Criticism; F R E N, G E R M, M A H A V , S L A V and S P A N 282-283, Literature in Translation; 264-265 Spanish-American Literature in Translation; M O D L/GERM M 442/442 Survey of M e d i e v a l German Literature in Translation and R U S S 482, 483.

Graduate Work. The advanced degrees of master and doctor of philosophy are offered in French, German, and Spanish. For details, see the Graduate Studies Bulletin.

Courses of Instruction

Note on course sequences 101, 102, 201, 202, 110, 210: Courses in these sequences may not be taken out of order. Students must pass the prerequisite course, or have the appropriate high school credits, before taking the next course in the sequence, and may not take an earlier course in any sequence for credit once they have received credit in a later course in the same sequence.

Modern Languages (M O D L)


[ES] 180H, University Honors Seminar (3 cr) Prereq: Good standing in the University Honors Program or by invitation. University Honors Seminar 180H is required of all students in the University Honors Program. Topic varies.

198, Special Topics (1-24 cr) Prereq: Permission. Special topic to be covered in any given semester and credit to be awarded are determined by the instructor. Consideration of topics in the area of language, literature, and civilization.

200, Introduction to Language (3 cr) T his course is designed for students who have had high school language 2 semesters in college. Students must have had a foreign language at the 102 level or above or the equivalent to register for M O D L 200. Credit is allowed only for one of the courses M O D L 200 or C L A S 100. It assumes a certain familiarity with the mechanics of language analysis. Phonology, morphology, and syntax reviewed, then treats language-related issues such as the relationship of language to thought and culture, animal communication vs. human language, language families, dialects and social use of language, how children acquire language, and language change.

206, Middle East in Literature and Film (3 cr) An analysis of the literature and film of the Middle East from the Islamic conquests to the present. The student is expected to have had at least one semester of Arabic or Persian.

211, Modern Arabic Literature (3 cr) Prereq: Permission. Focus on the literature of modern Egypt, Syria, Iraq, and Jordan. The student is expected to have had at least one semester of Arabic.

232, The Jewish Idea in Modern Literature (EN G L 232) (2 cr) Introduction to the literary and historical context of Jewish cultural life as expressed in modern works of literature in translation and cinema by Jewish intellectuals.

234D, Major Themes in World Literature (EN G L 234D) (3 cr) 0 prereq. Through the study of masterpieces read in translation, explores the ideas and motifs that define the major literary expressions of the human experience. Includes the rebel, love, madness, representations of gender, the quest, childhood.

285, Introduction to Comparative Literature (EN G L 285) (2 cr) Prereq: Sophomore standing and at least 3 cr in literature in English or modern languages. For course description, see EN G L 285.

329, Special Topics (1-24 cr) Prereq: Permission. Special topic to be covered in any given semester and credit to be awarded are determined by the instructor. Consideration of topics in the area of language, literature, and civilization.

398, Special Topics (1-24 cr) Prereq: Permission. Specific topic to be covered in any given semester and credit to be awarded are determined by the instructor. Consideration of topics in the area of language, literature, and civilization.

442/442, Survey of Medieval German Literature in Translation (GERM 442/442) (3 cr) Prereq: Permission; or G E R M M 302 for German majors. For course description, see G E R M M 442/442.

454/854, Russian Intellectual Tradition (RU S S 454/854) (3 cr) Prereq: Junior standing and permission. A study of Russian thinkers from 1700 to the present. Focus is on the exploration of the ideas in the Russian context and the relationship between Russian and European thought.

489/889, Special Topics (1-24 cr) Prereq: Permission. Special topic to be covered in any given semester and credit to be awarded are determined by the instructor. Consideration of topics in the area of language, literature, and civilization.

870, Introduction to Literary Criticism (3 cr) Prereq: Senior or graduate standing.

880, Seminar in Applied Linguistics and Methodology (3 cr) Prereq: Graduation standing.

Refer to the Graduate Bulletin for 900-level courses.

Interdisciplinary Seminars

443/843, Dante and His Times (3 cr) Each T h e Divine Comedy and some minor works; extensive readings in the social background of the thirteenth and fourteenth centuries.


Refer to the Graduate Bulletin for 900-level courses.

French (F R E N)

Block Courses: Block courses combine two semesters of study into one by allowing two complementary courses to be taken at the same time, five days per week, for 6 credits. The following courses may be blocked: F R E N 201 and 202 can be taken as 210; F R E N 203 and 204. Separate registration for each course is necessary. See the Schedule of Classes for details.

101, Beginning French I (5 cr) Prereq: F R E N 101 does not count toward the liberal education requirements except by permission of the departmental chair. M an emphasis on the development of comprehension of written and spoken French; reading of simple texts dealing primarily with contemporary France and French life; oral and aural drill supplemented by practice in language laboratory.

102, Beginning French II (5 cr) Prereq: F R E N 101 or equivalent score on French Language Placement Exam. F R E N 102 does not count toward the liberal education requirements except by permission of the departmental chair. Continuation of F R E N 101.

181, Grammar and Readings (3 cr) O pen to graduate students, juniors and seniors. D o not apply to the liberal education requirements. 1 The sequence of F R E N 101 and 281 is designed primarily to meet the needs of graduate students preparing for the F R E N 1 reading examination. Rapid course in the essentials of grammar designed to prepare mature students for reading various types of literary or technical prose texts.

201, Second-Year French I (3 cr) Prereq: F R E N 102 or equivalent score on French Language Placement Exam. Practice in oral and written expression and introduction to narrative texts. Grammar review and vocabulary expansion are tied to different situations of interaction.

202, Second-Year French II (3 cr) Prereq: F R E N 201 or equivalent score on French Language Placement Exam. Continuation of F R E N 201, with emphasis on reading comprehension. Class discussion in French based on texts.

203, Conversation and Composition I (3 cr) L ec 3. Prereq: F R E N 202 or equivalent score on French Language Placement Exam. Guided practice in speaking and writing French.
204. Conversation and Composition II (3 cr) Prereq: FREN 203 or equivalent score on French Language Placement Exam. Continuation of FREN 203.

210. Accelerated Second-Year French (6 cr) Prereq: FREN 203 or equivalent score on French Language Placement Exam. Covers the same material as FREN 201-202 and counts as 201-202 in satisfying the liberal education requirements of the College of Arts and Sciences. Does not apply on the liberal education requirements.

[ES][IS] 282. French Literature in Translation I (2-4 cr) Prereq: FREN 201 or equivalent score on French Language Placement Exam. Selections to be announced in the schedule and course description booklet.

[ES][S] 301L. Representative Authors I (3 cr) Prereq: FREN 204 or equivalent. Reading of masterpieces from the Middle Ages to the present.

[ES][S] 302L. Representative Authors II (3 cr) Prereq: FREN 204 or equivalent. Reading of masterpieces from the Middle Ages to the present.


304. Advanced Composition, Grammar, and Conversation II (3 cr) Prereq: FREN 303 or equivalent. Continuation of FREN 303.

307. French for Business and Commerce I (3 cr) Prereq: FREN 204 or permission. Continuation of FREN 207. Accent on practical use of French and development of business vocabulary. Prereq: Foreign language placement exam. For students who wish to acquire a more sophisticated means of expression in French.

308. French for Business and Commerce II (3 cr) Prereq: FREN 204 or permission. Continuation of FREN 307. Accent on practical use of French and development of business vocabulary. Prereq: Foreign language placement exam. For students who wish to acquire a more sophisticated means of expression in French.

317. Introduction to Linguistics (1-3 cr) Prereq: FREN 204 or equivalent. Systematic, chronological presentation of French civilization. Attention to problems of vocabulary, syntax, semantics, and technical, literary, and commercial translation.

422/822. Topics in French Civilization (3 cr) Prereq: 6 hrs coursework in permission. Analysis of internationals of cultural, social, economic, and political factors contributing to French culture and civilization.

441/841. French Literary Treasures of the Middle Ages (3 cr) Prereq: FREN 301 and 302 or permission. Selections from the Middle Ages to the Renaissance. Includes romance, troubadour poetry, and chansons de geste. Prereq: 300 level.

445/845. Seventeenth Century (3 cr) Prereq: FREN 301 and 302 or permission. Philosophical writings and the theatre of eighteenth-century France. Prereq: FREN 301 or equivalent.

449/849. Eighteenth Century I (3 cr) Prereq: FREN 301 and 302 or equivalent. Philosophical writings and the theatre of eighteenth-century France. Prereq: FREN 301 or equivalent.

450/850. Eighteenth Century II (3 cr) Prereq: FREN 301 and 302 or equivalent. Philosophical writings and the theatre of eighteenth-century France. Works of Voltaire, Rousseau, Montesquieu, Diderot. Lectures, discussion, and reports.

453/853. French Literature Nineteenth Century I (3 cr) Prereq: FREN 301 and 302, or permission. Systematic composition and conversational exercises. Prereq: FREN 301 and 302 or permission.

454/854. French Literature Nineteenth Century II (3 cr) Prereq: FREN 301 and 302, or permission. Systematic composition and conversational exercises. Prereq: FREN 301 and 302, or permission.


496/896. Independent Study in French (1-24 cr) Prereq: Permission. Special research project or reading program under the direction of a staff member in the department.

498/898. Special Topics in French (1-24 cr) Prereq: Permission. Specific topic to be covered in any given semester and credit to be awarded determined by the instructor at that time. Language, literature, and civilization.

899. Masters’ Thesis (6-10 cr) Refer to the Graduate Bulletin for 900-level courses.

German (GERM)

101. Beginning German I (5 cr) Introduction to contemporary German. Stress on oral and written communication, reading and aural comprehension.

102. Beginning German II (5 cr) Prereq: GERM 101 or equivalent score on German Language Placement Exam. Continuation of GERM 101. Reading of contemporary cultural and social issues in German-speaking countries.

181. Beginning Grammar and Reading (3 cr) Prereq: 6 hrs coursework in permission. An analysis of internationals of cultural, social, economic, and political factors contributing to German culture and civilization. Prereq: 181 level.

202. Second-Year German I (3 cr) Prereq: GERM 201 or equivalent score on German Language Placement Exam. Comprehension and intensive study of moderately difficult German prose, review of grammar, conversational exercises based on the texts.

202. Second-Year German II (3 cr) Prereq: GERM 201 or equivalent score on German Language Placement Exam. Continuation of GERM 201. Reading of more difficult texts. Class discussion and reports on supplementary reading.

253. Composition and Conversation I (3 cr) Prereq: GERM 202 or equivalent score on German Language Placement Exam. Could be taken the same time as RUSS 201. Systematic composition and conversational exercises.

254. Composition and Conversation II (3 cr) Prereq: GERM 202 or equivalent score on German Language Placement Exam. Could be taken the same time as RUSS 202. Continuation of GERM 203.

210. Accelerated Second-Year German (6 cr) Prereq: GERM 102 or equivalent score on German Language Placement Exam. Covers the same material as GERM 201-202 and counts as 201-202 in satisfying the liberal education requirements of the College of Arts and Sciences. Does not apply on the liberal education requirements.

[ES][S] 282. German Literature in Translation (1-24 cr) Prereq: 6 hrs coursework in permission. Survey of literature of German speakers for a student to take these courses more than once may be obtained from the instructor if the area of concentration has changed. Prereq: FREN 204 or equivalent.

289. Special Topics I (1-12 max cr) Prereq: Permission. Special topics to be covered in any given semester and credit to be awarded determined by the instructor. Prereq: Permission.

290. Special Topics II (1-24 cr) Prereq: Permission. Special topics to be covered in any given semester and credit to be awarded determined by the instructor. Prereq: Permission.

291. Advanced Composition, Grammar, and Conversation I (3 cr) Prereq: GERM 202 or equivalent, plus 203 or 204 or 321 or 322 or permission. Reading of representative authors of the twentieth century.

[ES][S] 301L. Representative Authors I (3 cr) Prereq: GERM 202 or equivalent, plus 203 or 204 or 321 or 322 or permission. Reading of representative authors of the twentieth century. Prereq: Permission.

[ES][S] 302L. Representative Authors II (3 cr) Prereq: GERM 202 or equivalent, plus 203 or 204 or 321 or 322 or permission. Reading of representative authors of the eighteenth and nineteenth centuries.

303. Advanced Composition, Grammar, and Conversation I (3 cr) Prereq: GERM 202 or equivalent, plus 204 or permission. Extensive discussion of advanced grammar; exercises in advanced composition and oral expression.

304. Advanced Composition, Grammar, and Conversation II (3 cr) Prereq: GERM 303 or permission. Continuation of GERM 303.

307. German for Business and Commerce I (3 cr) Prereq: GERM 204 or permission. Introduction to the business language of the German-speaking business world. Continuation of GERM 306. Reading of contemporary cultural and social issues in German-speaking countries.

319. Phonetics in German (3 cr) Prereq: GERM 202 or equivalent, GERM 203 or 204, or permission. Systematic study of standard German with the aid of tape recordings. Prereq: Foreign language placement exam. Continuation of GERM 303. Reading of contemporary cultural and social issues in German-speaking countries.

321. German Civilization I (3 cr) Prereq: GERM 202 or equivalent. Systematic, chronological presentation of German civilization from the beginning to the present.
German Civilization I (3 cr) Prereq: GER M 202 or equivalent. Systematic, chronological presentation of German civilization from the beginning to the present.

Topics in German Studies (3 cr) Prereq: GER M 204 or equivalent, or permission. Study of specific period or problem in German Studies. Interdisciplinary focus Topic varies.

Special Topics in German (1-24 cr) Prereq: GER M 301 and 302 or permission. Specific topic to be offered in any given semester and credit to be awarded to be determined by the instructor at that time. Language, literature, and civilization.

Independent Study in German (1-24 cr) Prereq: Permission.

Honors Course (1-4 cr) Prereq: Open to candidates for degrees with distinction, with high distinction, and with highest distinction in the College of Arts and Sciences and to seniors and especially qualified juniors, with consent of the instructor.

Advanced Syntax and Stylistics in German I (3 cr) Prereq: GER M 303 and 304, or equivalent. Recommended for all German majors. Advanced syntax and style in their application to composition.

Advanced Syntax and Stylistics in German II (3 cr) Prereq: GER M 303 and 304, or equivalent. Recommended for all German majors. Advanced syntax and style in their application to composition.

Linguistics in German (3 cr) Prereq: GER M 303, 304 or equivalent. Phonetics, phonemics, morphology, and transformational grammar as applied to standard German.

History of the German Language (3 cr) Prereq: GER M 302 or permission.

Survey of Medieval German Literature in Translation (M O O L 442/842) (3 cr each) Prereq: Permission or GER M 302 for German majors. German majors expected to read the works in German translation and to write their papers in German. Non-German majors read the works in English translation.

German vernacular literature during the Middle Ages. Include works that represent the philosophical/religious literature, the heroic epic, and the romance.

Middle High German Language (3 cr) Prereq: GER M 302 or permission. Grammar to attain reading knowledge of Middle High German. Grammar to broaden knowledge of vocabulary from a variety of Middle High German texts.

Middle High German Literature (3 cr) Prereq: GER M 443 or 843 or reading knowledge of Middle High German. Reading of masterworks of Middle High German literature in the original language.

Sixteenth- and Seventeenth-Century German Literature (2-3 cr) Prereq: GER M 302 or equivalent. Humanism, Reformation, and Baroque.

Eighteenth-Century Literature (3 cr) Prereq: GER M 302 or equivalent. Representative authors of the Enlightenment, Empfindsamkeit, and Storm and Stress.

Romanticism (3 cr) Prereq: GER M 302 or equivalent. Representative authors of the Romantic movement.

Survey of Nineteenth-Century German Literature I, 1820-1848 (3 cr) Prereq: GER M 301 and 302 or permission. A survey of the major literary currents; authors, works, influences in German-speaking countries in the first half of the nineteenth century. Includes Romanticism, which is treated in GER M 449/849. The main concern of the course will be a careful examination of many aspects of "Biedermeier" and "Das Junge Deutschland," the two major movements of the time.

Survey of Nineteenth-Century German Literature II, 1848-1900 (3 cr) Prereq: GER M 301 or 302 and permission. A survey of the major literary currents; authors, works, influences in German-speaking countries in the second half of the nineteenth century. The major concern of the course will be a careful examination of Poetic Realism and Naturalism, the two major movements in this half of the century.

From Naturalism to Expressionism (3 cr) Prereq: GER M 302 or equivalent. Critical survey of the major literary currents from the turn of the century to the end of World War I.

From the Weimar Republic into Exile (3 cr) Prereq: GER M 302 or equivalent. Critical survey of German literature from 1918 to 1945.

History of German Poetry (2-3 cr) Prereq: GER M 302 or equivalent. Critical survey of the development of epic and lyric poetry from the beginning to the present time.

German Literature and Philosophy (2-3 cr) Prereq: GER M 302 or equivalent. Relationship between literature and contemporary thought from the eighteenth century to the present.

Postwar German Literature: The Literature of West Germany, Austria, and Switzerland (3 cr) Prereq: GER M 302 or equivalent. Critical survey of major literary currents in the West since 1945.

Works of Goethe and Schiller (3 cr) Prereq: GER M 302 or equivalent. Representative works.

Goethe's Faust (3 cr) Prereq: GER M 302 or equivalent. Critical study. Lectures, assigned readings, and reports.

Special Topics in German (1-24 cr) Prereq: Permission. Specific topic to be covered in any given semester and credit to be awarded to be determined by the instructor at that time. Consideration of topics in the area of language, literature, and civilization.

Masters' Thesis (6-10 cr) Refer to the Graduate Bulletin for 900-level courses.

Japanese (JAPN)

Beginning Japanese I (5 cr) Prereq: GERM 301 and 302 or permission. Introduction to different speech levels and styles in realistic communicative situations enhancing conversational and writing competencies.

Intermediate Grammar and Reading I (3 cr) Prereq: JAPN 102 or equivalent. Introduction to different speech levels and styles in realistic communicative situations enhancing conversational and writing competencies.

Intermediate Grammar and Reading II (3 cr) Prereq: JAPN 201 or equivalent. Introduction of modern Japanese. Various speech levels and styles.


Russian (RUSS)

Beginning Russian I (5 cr) Prereq: JAPN 102 or equivalent. Introduction to different speech levels and styles in realistic communicative situations enhancing conversational and writing competencies.

Second-Year Russian I (3 cr) Prereq: JAPN 201 or equivalent. Introduction to different speech levels and styles in realistic communicative situations enhancing conversational and writing competencies.

Second-Year Russian II (3 cr) Prereq: JAPN 201 or equivalent. Introduction to different speech levels and styles in realistic communicative situations enhancing conversational and writing competencies.

Composition and Conversation I (3 cr) Prereq: JAPN 201 or equivalent. Composition and Conversation II (3 cr) Prereq: JAPN 201 or equivalent. Composition and Conversation III (3 cr) Prereq: JAPN 201 or equivalent. Composition and Conversation IV (3 cr) Prereq: JAPN 201 or equivalent.

Advanced Conversation and Composition: Russian Language through the Russian Press (3 cr) Prereq: RUSS 202 or equivalent; RUSS 204 or equivalent. Advanced conversation and composition. Russian language. Focus on language as used in business, politics, and journalism.

Advanced Conversation and Composition: Russian Language through the Russian Press (3 cr) Prereq: RUSS 202 or equivalent; RUSS 204 or equivalent. Advanced conversation and composition. Russian language. Focus on language as used in business, politics, and journalism.

Special Topics in Russian (1-24 cr) Prereq: RUSS 301 and 302 or permission. Specific topic to be covered in any given semester and credit to be awarded to be determined by the instructor at that time. Language, literature, and civilization.

Independent Study in Russian (1-24 cr) Prereq: Permission.

Honors Course (1-4 cr) Prereq: Permission.

Russian Grammar and Stylistics (3 cr) Prereq: RUSS 301 or equivalent. Detailed analysis of Russian morphology and syntax to achieve greater sophistication in self-expression.

Business and Political Russian (3 cr) Prereq: RUSS 302 or equivalent. Elective for Russian majors and recommended for students of international business and affairs, journalism and history. Focus on language as used in business, politics, and journalism.
Spanish (SPAN)

101. Beginning Spanish I (3 cr)
Emphasis on development of comprehension of written and spoken Spanish; reading of simple texts dealing primarily with the Spanish-speaking world and with cultural and historical background of Spanish civilization; oral and aural drill supplemented by practice in pronunciation laboratory.

102. Beginning Spanish II (3 cr) Prereq. SPAN 101 or equivalent score on Spanish Language Placement Exam. Continuation of SPAN 101.

110. Accelerated Beginning Spanish (10 cr) Prereq. 2 sems high-school Spanish and departmental permission. Covers the same materials as SPAN 101-102 and counts as 101-102 in satisfying the liberal education requirements.

181. Beginning Grammar and Readings (3 cr) Prereq. Open to students, freshmen, and graduates beginning their Spanish. Does not apply to the liberal education requirements. Rapid course in the essentials of grammar followed by reading of varied simplified texts.

201 (202x). Second-Year Spanish I (3 cr) Prereq. SPAN 102 or equivalent score on Spanish Language Placement Exam. SPAN 201x does not count toward completing the Spanish major. Intensive and extensive reading of moderately difficult Spanish texts thorough review of basic essentials of Spanish grammar; conversational practice supplemented by drill in pronunciation laboratory.

203. Honors Second-Year Spanish I (3 cr) Prereq. Good standing in University Honors Program or by invitation. Honors course in second year Spanish.

202 (202x). Second-Year Spanish II (3 cr) Prereq. SPAN 201 or equivalent score on Spanish Language Placement Exam. SPAN 202x does not count toward completing the Spanish major. Intensive and extensive reading of moderately difficult texts.

203. Honors Second-Year Spanish II (3 cr) Prereq. Good standing in University Honors Program or by invitation. Honors course in second year Spanish.

204. Intensive Reading (3 cr) Prereq. SPAN 202 or equivalent score on Spanish Language Placement Exam. Focuses on the achievement of communicative proficiency so that students may be able to express and discuss their ideas and experiences in clear, direct Spanish. Grammaratical constructions and new vocabulary are presented and practiced mainly in conversation.

204. Intensive Writing (3 cr) Prereq. SPAN 202 or equivalent score on Spanish Language Placement Exam. Focuses on the achievement of communicative proficiency so that students may be able to express and discuss their ideas and experiences in a coherent manner. Special emphasis on thematic content, organizational skills, and self-editing.

210. Accelerated Second-Year Spanish (6 cr) Prereq. SPAN 102 or equivalent score on Spanish Language Placement Exam and permission of the instructor. Covers the same material as SPAN 201-202 and counts as 201-202 in satisfying the liberal education requirements.

[ES] 264. Spanish-American Literature in Translation I (3 cr) Prereq. 6 hrs in courses in literature. Permission for a student to take this course more than one may be obtained from the instructor if the area of concentration has been changed. M asterpieces of Spanish-American literature in translation. Selected texts to be announced in the schedule and course description booklet.

[ES] 265. Spanish-American Literature in Translation II (3 cr) Prereq. 6 hrs in courses in literature. Permission for a student to take this course more than once may be obtained from the instructor if the area of concentration has been changed. M asterpieces of Spanish-American literature in translation. Selected texts to be announced in the schedule and course description booklet.

300. Advanced Writing and Reading for Comprehension (6 cr) Prereq. SPAN 203 and 204 or equivalent. A block course combining SPAN 303 and 304 in one semester.

303. Advanced Reading for Comprehension (3 cr) Prereq. SPAN 203 and 204 or equivalent. Introduction to literary texts and to the practice of reading for comprehension and interpretation. Students write short summaries of selected from Spanish and Spanish-American literary works.

304. Advanced Writing (3 cr) Prereq. SPAN 203 and 204, or equivalent. Develops writing skills by concentrating on techniques for writing, reports, such as organizing ideas, structuring arguments and conducting bibliographic searches.

[ES] 305. Literary Analysis in Spanish (3 cr) Prereq. SPAN 303 and 304, or SPAN 300 or equivalent. Readings of short stories, novels, and creative essays, short plays and poems to facilitate the acquisition of critical skills in the identification of basic ideological and formalistic issues within the text, and the acquisition of perspectives from Spanish and Spanish-American literatures.

311. Representative Spanish-American Authors I (LAMS 311) (3 cr) Lec. 3 Prereq. SPAN 305 or equivalent. Reading and analysis of such authors as Berceo, Alfonso X, Juan Manuel, Juan Ruiz, Fernando Rojas, Jorge Mance, and Juan de Mena.

312. Representative Spanish-American Authors II (LAMS 312) (3 cr) Lec. 3 Prereq. SPAN 305 or equivalent. Reading and analysis of significant Spanish narrative written during the nineteenth century.

313. Representative Authors of Spain I (3 cr) Prereq. SPAN 305 or equivalent. Readings of masterpieces by great writers chosen from the Golden age period to the sixteenth century.

314. Representative Authors of Spain II (3 cr) Prereq. SPAN 305 or equivalent. Readings of masterpieces by great writers chosen from the Renaissance period to the eighteenth century. Lectures, oral discussions, and written reports in Spanish.

321. Spanish Civilization (3 cr) Prereq. SPAN 300 or equivalent. Reading and study of the classics of Lope de Vega, Tirso de Molina, Ruiz de Alarcón, Calderón and others, Lectures, class discussions, and reports.

[ES] 325. Nineteenth Century Spanish Literature (3 cr) Prereq. 6 hrs from SPAN 311, 312, 314, 315. Readings and study of significant Spanish narrative written during the nineteenth century. Topics to be announced in the schedule and course description booklet.

331. Latin American Civilization (LAMS 331) (3 cr) Lec. 3 Prereq. SPAN 300 or equivalent. Lectures, discussions, and papers in Spanish.

343. Special Topics in Spanish (1-24 cr) Prereq. SPAN 305 or equivalent. Specific topics to be covered in any given semester and credit to be awarded to be determined by the instructor at that time.

349. Independent Study in Spanish (1-24 cr) Prereq. Student must obtain permission prior to enrolling. Special research project or reading program under the direction of a staff member in the department.

399. Honors Special Problems (1-6 cr) Prereq. Open to candidates for degrees with distinction, with high distinction, and with highest distinction in the College of Arts and Sciences and to and especially qualified juniors with consent of instructor.

403. Spanish Stylistics (3 cr) Prereq. SPAN 305 and 319 or equivalent. For advanced students particularly prospective teachers who wish to improve their ability to write idiomatic Spanish.

405. Advanced Grammar (3 cr) Prereq. SPAN 300 and 317 or 319 or equivalent. Theoretical and practical aspects of Spanish grammar.

[ES] 421. Medieval Literature (3 cr) Prereq. SPAN 305, and either SPAN 311 and 312, or SPAN 314 and 315; or graduate standing. Spanish Medieval literature of the tenth to the fifteenth centuries. Reading and analysis of such authors as Bece, Alonso X, Juan Manuel, Juan Ruiz, Fernando Rojas, Jorge Mance, and Juan de Mena.

423. Spanish Speaking Proficiency (3 cr) Prereq. SPAN 303 or permission. Intensive advanced course in oral communication to gain proficiency in speaking Spanish through practice, creative construction or sentences, vocabulary, building, and practical review of grammar and pronunciation.

[ES] 441. Spanish Golden Age Poetry (3 cr) Prereq. 6 hrs from SPAN 311, 312, 314, 315. Representative works of the sixteenth and seventeenth centuries. Garcilaso de la Vega, Fray Luis de León, San Juan de la Cruz, Lope de Vega, Góngora, Quevedo.

[ES] 442. Spanish Golden Age Prose (3 cr) Prereq. 6 hrs from SPAN 311, 312, 314, 315. Representative works of the sixteenth and seventeenth centuries. Exclusive of Cervantes La Celestina, El Lazarillo de Tormes, El Lazarillo, selections from Santa Teresa de Jesus, La Dama, Quevedo’s Sueños, y Gracián’s El círculo.

[ES] 445. Spanish Golden Age Drama (3 cr) Prereq. 6 hrs from SPAN 311, 312, 314, 315. Reading and study of the classics of Lope de Vega, Tirso de Molina, Ruiz de Alarcón, Calderón and others, Lectures, class discussions, and reports.


455. Human Rights in Latin American Poetry (3 cr) Prereq. SPAN 304; and 6 hrs from SPAN 311, 312, 314, 315. Reading and analysis of Latin American poetry dealing with human rights issues, concentrating on poems produced from 1900 to the present time. Selected from the U. N. International Declaration of Human Rights.


[ES] 457. Twentieth-Century Spanish Narrative (3 cr) Prereq. 6 hrs from SPAN 311, 312, 314, 315. Reading and analysis of significant Spanish narrative written during the twentieth century.

[ES] 458/858. Twentieth-Century Spanish Drama (3 cr) Prereq. 6 hrs from SPAN 311, 312, 314, 315. Reading and analysis of dramatic works by such playwrights as Benavente, Valle-Inclán, García Lorca, Buero Vallejo, Sastre, and Arrabal.

Spanish-American novels.

M aterpieces of the Spanish-American short story from its origins. Works of the twentieth century by authors such as Horacio Quiroga, Jorge Luis Borges, Mario Alberto Brembilla, Juan Rulfo, Julio Cortázar, Rosario Castellanos, and Luisa Valenzuela.

Reading and analysis of twentieth-century Spanish and Spanish-American essays with emphasis on Unamuno, M aetzu, O rtega y Gasset, M arx, M aría Luisa Bombal, and Victoria Ocampo.

M aterpieces by women writers of Spanish America such as Sor Juana Inés de la Cruz, Gertrudis Gómez de Avellaneda, Gabriela M irand, M aría Luisa Bombal, and Victoria Ocampo.

472/873. Cervantes (3 cr) Prereq: 6 hrs from SPAN 311, 312, 314, 315.
On the uijeda of the Els nemeas and selected Navel ejaes.


[IS] 497. Seminar in Spanish (3 cr, max 24) Prereq: 6 hrs from SPAN 311, 312, 314, 315; and senior standing or permission. Topic covered in any term determined by the instructor. Topics dealing with specific aspects of Iberian literature and culture.

498/898. Special Topics in Spanish (1-24 cr) Prereq: Permission. Specific topic to be covered in any given semester and credit to be awarded as determined by the instructor at that time. Language and civilization.

889. Masters' Thesis (6-10 cr) Refer to the Graduate Bulletin for 900-level courses.

Music

(Minor Only)

Requirements for the Minor in Music (Plan A only)

- Students must audit for School of Music faculty for acceptance as a minor in music.
- A minimum of 18 hours including two semesters of MUS 100 (1-2 cr), 4 hours of consecutive courses in minor applied music classes; 4 hours of approved ensemble courses (for requirements see “Ensembles” on page 340; and 7 hours of Music Core Curriculum (MUS 101, 131, 165, 165A) in fall semester, and 4 hours MUS 166 and 166A in spring semester of same academic year.

Native American Studies

(Minor Only)

Coordinator and Undergraduate Adviser: Martha McCollough (anthropology and geography), 308 Seaton Hall
Faculty: A. Kers (history), Awakuni-Sweetland (anthropology and geography), Gannon (English), Hames (anthropology and geography), Johnson (anthropology and geography), A. Kyes (English), M. C. O'loughlin (anthropology and geography/ethnic studies), M. Core (sociology), Smith (history), Snowden (law), W. Hittebeck (sociology), Willis-Esquela (psychology/ethnic studies), W. Hart (geography), W. Wunder (history)

N ative American Studies offers a variety of courses and includes a minor in N ative American Studies.

Requirements for the Minor in Native American Studies

- 8 hours from the following courses (other courses may be used with the approval of the faculty adviser):
  - ENGL 101D. Composition & Literature I (N ative American Literature) (3 cr)
  - ENGL 445E. Ethnic Literature (N ative American Literature) (ETHN 445E) (3 cr)
  - ETHN 212. Intro to Cultural Anthropology (ANTH 212) (3 cr)
  - ETHN 217. Native American History (HIST 217) (3 cr)
  - ETHN 241. N ative American History (HIST 241) (3 cr)
  - ETHN 245B. N ative American Literature (ENGL 245B) (3 cr)
  - ETHN 336.3 Cultural Education (TEAC 336) (3 cr)
  - ETHN 350. People & Cultures of N ative American (ANTH 350) (3 cr)
  - ETHN 351. N ative American History (HIST 351) (3 cr)
  - ETHN 352. Indigenous Peoples of the Great Plains (ANTH 352) (3 cr)
  - ETHN 356. Race & Ethnicity in the American West (HIST 356) (3 cr)
  - ETHN 425. Psychology of Racism (PSY 425/825) (3 cr)
  - ETHN 448. Family Diversity (SOC 448/848) (3 cr)
  - ETHN 451. Contemporary Issues of Indigenous People in North America (ANTH 451) (3 cr)
  - ETHN 464. N ative American History: Selected Topics (HIST 464) (3 cr)
  - ETHN 465. History of Plains Indians (HIST 465/ 865) (3 cr)
  - ETHN 481. M inority Groups (SOC 481) (3 cr)

A number of courses reflect the role of philosophy in investigating the fundamental concepts and assumptions of other disciplines, including courses in medical ethics, the philosophy of law, the philosophy of science, and the philosophy of mathematics.

Other courses focus on the role of philosophy in the critical analysis of basic evaluative concepts and assumptions. Courses in political philosophy critically examine the evaluative concepts and assumptions involved in our beliefs about government, individual liberty, and social and economic justice. Courses in the philosophy of religion do the same for beliefs about the nature and existence of God and about the relations between faith and knowledge.

The department also offers courses in aesthetics, the philosophical study of art, music, and literature understood as fundamental forms of human culture and significant expressions of the human spirit.

The interdisciplinary character of philosophy, together with its focus on evaluative issues and its unique emphasis on general methods of reasoned argument and analysis, leads to an unusually broad and intellectually sound major for students preparing themselves for such professions as law, medicine, social work, government service, and the ministry. The philosophy major is indispensable for those who wish to prepare for a career as a philosopher within a college or university setting.

Students interested in majoring in philosophy or in selecting philosophy courses especially relevant to their studies are invited to visit with the chief adviser for the department or the department chair.

Requirements for the Major in Philosophy

All prospective majors must consult and register with the departmental chief adviser.

1. A minimum of 30 hours of philosophy, with at least 24 hours in courses numbered 200 or above, and at least 12 hours in courses numbered 300 or above;
2. PHIL 400;
3. A least three of the following courses:
   - PHIL 110. Intro to Logic & Critical Thinking
   - PHIL 211. Intro to M odern Logic
   - PHIL 231. History of Philosophy (Ancient)
   - PHIL 232. History of Philosophy (Modern)
   - PHIL 301. Theory of Knowledge
   - PHIL 302. Intro to M odern Physics
   - PHIL 320. Ethical T heory

Independent study courses (PHIL 299 and 399) must be antecedently approved by a Department of Philosophy undergraduate adviser if they are to count toward satisfying the major requirements. No minor is required.

Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, majors will be required to complete an annual survey in the spring semester.

Results of participation in this assessment activity will in no way affect a student’s GPA or graduation.
Requirements for the Minor in Philosophy

1. A minimum of 15 hours in philosophy with at least 12 hours in courses numbered 200 or above, and at least 6 hours in courses numbered 300 or above;

2. At least two of the following courses:
   PHIL 211. Intro to Modern Logic
   PHIL 213. History of Philosophy (Ancient)
   PHIL 223. History of Philosophy (Modern)
   PHIL 301. Theory of Knowledge
   PHIL 302. Intro to Metaphysics
   PHIL 320. Ethical Theory

Recommendations for Prelaw and Premed Students

The following courses are recommended for the minor in philosophy for students preparing for admission to law school or medical school.

Prelaw
1. PHIL 211. Intro to Modern Logic;
2. At least one of the following courses:
   PHIL 221. Political Philosophy
   PHIL 230. Philosophy of Law
   PHIL 325. Advanced Social Political Philosophy
3. At least one of the following courses:
   PHIL 301. Theory of Knowledge
   PHIL 302. Intro to Metaphysics
   PHIL 320. Ethical Theory

Premed
1. PHIL 211. Intro to Modern Logic;
2. At least one of the following courses:
   PHIL 213. Medical Ethics
   PHIL 317. Intro to Philosophy of Science
3. At least one of the following courses:
   PHIL 301. Theory of Knowledge
   PHIL 302. Intro to Metaphysics
   PHIL 320. Ethical Theory

Graduate Work. The advanced degrees of master of arts and doctor of philosophy are offered. For details of these programs, see the Graduate Studies Bulletin.

Prerequisites. There are no prerequisites for courses below the 300 level. The prerequisites for courses at the 300 level are 3 hours of philosophy or permission, unless otherwise stated.

Courses of Instruction (PHIL)

[ESIS][1.10. Introduction to Philosophy (3 cr)]
Historical-cultural introduction to philosophy. Considers a broad range of philosophical problems in relation to the major historical and cultural conditions which have influenced their formulations and proposed solutions. Topics the principles of rational inquiry; the nature of knowledge; the metaphysics of mind, world, and God; and the sources and authority of morality.

[ESIS][1.106. Philosophy and Current Issues (3 cr)]
Critical survey of current issues and the role of philosophy in attempts to resolve them. Recent topics: sexual morality, pornography and the law, capital punishment, sexism and racism, war and peace, nuclear war, terrorism, abortion, church and state, and the war in the Mideast.

[ESIS][1.110. Introduction to Logic and Critical Thinking (3 cr)]
Introduction to the principles of correct reasoning and their application. Emphasis on improving skill in thinking and reading critically, analyzing and evaluating arguments objectively and, constructing sound arguments based on relevant evidence.

[ESIS][1.116. Philosophy and Religious Belief (3 cr)]
Introduction to the philosophical issues about the nature and justification of religious belief. Issues include the conception of God in Judaism and Christianity; the role of faith, reason, and religious experience in religious belief; the traditional arguments for the existence of God; the problem of evil; the idea of immortality; the relations between religion and science and religion and morality.

[ESIS][1.182. Alpha Learning Community Seminar (3 cr)]
An Alpha Learning Community Program. PHIL 183 is normally taken in the next term. Topic varies.

[ESIS][1.183. Alpha Learning Community Seminar (3 cr)]
Prereq: PHIL 182. A seminar enrollment in the Alpha Learning Community Program. Topic varies.

[ESIS][1.1894. University Honors Seminar (3 cr)]
Prereq: Good standing in the University Honors Program or by invitation. U Honors 1894 is required of all students in the University Honors Program.
Topic varies.

[ESIS][1.211. Introduction to Modern Logic (3 cr) Lec 3]
Introduction to symbolic logic. The semantics and syntax of sentential and predicate logic. Introduction to mathematical logic. Translating into and from formal languages. Introduction to the use of computer programs in logical reasoning.

[ESIS][1.231. Medical Ethics (3 cr)]
Philosophical study of moral problems in modern medicine, including such issues as: the allocation of medical resources, patients, rights, research on human subjects, abortion, the care of seriously impaired newborns, and socialized medicine and the right to health care.

[ESIS][1.236. Introduction to Psychology and Philosophy (3 cr)]
Exploration of a number of topics to which both psychological research and philosophical reflection are relevant. Topics may include a number of cases where psychological findings bear on the resolution of some traditional philosophical issues and where philosophical analysis and criticism can be helpful in understanding and assessing a psychological theory or finding.

[ESIS][1.218. Philosophy of Feminism (W M N S 218) (3 cr)]

[ESIS][1.220. Elements of Ethics (3 cr)]
We define basic issues in ethical theory, typically including: nature of justice, objectivity of moral values, source of moral obligation, and the conditions of the good life. Each issue addressed through historically important texts such as Aristotle’s Nicomachean Ethics, Kant’s Groundwork, and Mill’s Utilitarianism.

[ESIS][1.221. Political Philosophy (3 cr)]
Basic concepts and problems of political theory. Freedom, equality, democracy, justice, and the relation of the individual to the state.

[ESIS][1.222H. Honors Political Philosophy (3 cr)]
Prereq: Good standing in the University Honors Program or by invitation. Basic concepts and problems of political theory. Freedom, equality, democracy, justice, and the relation of the individual to the state.

[ESIS][1.222. Introduction to the Philosophy of History (3 cr)]
Nature and grounds of historical knowledge; objectivity vs. subjectivity in the writing of history; historical explanation, and patterns in human history. Primary sources include Hegel, Marx, and Toynbee.

[ESIS][1.230. Philosophy of Law (3 cr)]
Philosophical problems of the law and of legal systems. Includes legal reasoning, judicial interpretation, legal language and definition, legal obligation, law and morality, and legal paternalism. Concept of law, constitutional law, legislative intent, fair trial, criminal responsibility, punishment, fault, and strict liability. Applications to social issues of individual freedom, human rights, privacy, discrimination, and justice.

[ESIS][1.231. History of Philosophy (Ancient) (3 cr)]
Beginning of Greek philosophy: the pre-Socratics and the writings of Socrates. The Sophists, Empedocles, Heraclitus, and Plato. Reading and analysis of the works of Plato and Aristotle with emphasis on historical connections and the critical interpretation of texts.

[ESIS][1.232. History of Philosophy (Modern) (3 cr)]
Survey of the more important systems in Western philosophy in the seventeenth and eighteenth centuries with emphasis on historical connections and the critical interpretation of texts.

[ESIS][1.285. Philosophy of Religion (3 cr)]
Introduction to the philosophical understanding of religion. Includes a number of views on the nature of God, on the possibility of knowledge of God’s existence through either argumentative or religious experience, and on the relation between religion and morality.


[ESIS][1.301. Theory of Knowledge (3 cr) Prereq: 3 hrs philosophy or permission.]
Introduction to some major problems of epistemology, with emphasis on the understanding and evaluation of the problems rather than on learning what various philosophers have said about them. Treats such questions as the nature and scope of knowledge, the sources of knowledge, the nature of memory and reasoning, the nature of evidence and its relation to knowledge; the possibility of knowledge of the mental lives of others, the nature and justification of inductive reasoning, and the concept of causality and its relation to explanation.

[ESIS][1.302. Introduction to Metaphysics (3 cr) Prereq: 3 hrs philosophy or permission.]
Introduction to some main problems, and some central concepts of metaphysics. Focuses on the nature of being and existence, and on various questions concerning the relations between different kinds of entities and bodies, causes and effects, universals and particulars, etc.

[ESIS][1.314. Problems in the Philosophy of Mind (3 cr) Prereq: 3 hrs philosophy or permission.]
Major problems in the philosophy of mind: the relation between the mental and the physical; the role of mental concepts in explaining human actions; the possibility of life after death; the concept of a person, the structure of character and personality; and the analysis of various important mental concepts, such as thought, belief, desire, emotion, sensation, and pleasure.

[ESIS][1.317. Philosophy of Science (3 cr) Prereq: 3 hrs philosophy or permission.]
Critical analysis of the philosophical foundations of the sciences. Nature of theories, observation in science, the interpretation of theories, the scientific method, explanation, interfield relations, patterns of scientific development, and the role of philosophy in science studies in general.

[ESIS][1.320. Ethical Theory (3 cr) Prereq: 3 hrs philosophy or permission.]
Major, considering the major views in normative ethics as well as a broad range of questions in theoretical ethics centering on the nature of morality and its place in human life.

[ESIS][1.323. Topics in Applied Ethics (3 cr) Prereq: 3 hrs philosophy or permission.]
Applications of systematic moral theories to specific moral issues of social justice and environmental, journalistic and medical ethics.

[ESIS][1.325. Advanced Social Political Philosophy (3 cr) Prereq: 3 hrs philosophy or permission.]
Various competing contemporary philosophical approaches to issues of social justice, with special attention to issues of individual rights, political liberty, and distributive justice.

[ESIS][1.327. Aesthetics (3 cr) Prereq: 3 hrs philosophy or permission.]
Critical exposition of the main classical and contemporary theories of art: Expressionist, Formalist, and Representationalist. Issues considered in definition of art, of aesthetic judgment, of art criticism, and of aesthetic value. Examples drawn from painting, literature, music, and movies.

[ESIS][1.331. Hellenistic Philosophy (3 cr) Prereq: 3 hrs philosophy or permission.]
Philosophy after Aristotle in the classical period, including the Stoics, Epicureans, and Skeptics, emphasizing historical connections and critical textual interpretation.

[ESIS][1.332. Spinoza (3 cr) Prereq: 3 hrs philosophy or permission.]
Philosophy of Spinoza, focusing on his principal work, the Ethics. Various metaphorical and epistemological aspects of Spinoza’s thought, including his ideas on the nature and existence of God, the relation between human body and soul, and relations between language, truth and reason.

[ESIS][1.335. History of Medieval Philosophy (3 cr) Prereq: 3 hrs philosophy or permission.]
Philosophers from the fourth through the fourteenth centuries, including Augustine and Aquinas, emphasizing historical connections and the critical interpretation of texts.

[ESIS][1.336. Ethics Ancient and Medieval (3 cr) Prereq: 3 hrs philosophy or permission.]
Ancient and medieval theories of morality. Connection between self-interest and morality, what morality is, and pleasure.
controversy between problems of the issue the ethics of and 
and Derrida. The language of social science; the 
Recent developments in continental philosophy, in particular 
Lewis, and R yle. Developments in each of the major fields of 
speaking world. Realism, skepticism, reference, and represen-
tation to major works, chiefly modern and contemporary. 
Includes naturalism, intuitionism, emotivism, utilitarianism, 
and materialism, instrumentalism and eliminativism, wide and 
and metaphysical issues. 

Development of American Pragmatism from 1870’s to the 
present. Essential writings of C. S. Peirce, William James, and 
John Dewey; other currents in American thought such as 
Critical Realism are examined in contemporary philosophical 
views that continue the spirit of pragmatism. 

Development of recent developments in continental philosophy, in particular 
of different forms of social criticism which it has generated. 
Includes discussion of M Aris, Foucault and other philos-
phers influenced by N. Lutze, W. Wittgenstein, Lewis, and Ryle in develop 
ments in the major fields of philosophy, including ethics. 

American Philosophy (3 cr) Prereq: 3 hrs philosophy or 
permission. Development of American Pragmatism from 1870’s to the 
present. Essential writings of C. S. Peirce, William James, and 
John Dewey; other currents in American thought such as 
Critical Realism are examined in contemporary philosophical 
views that continue the spirit of pragmatism. 

Modern European Jewish Philosophy (JUDS 345) (3 cr) Lec. 3. Prereq: 3 hrs PHIL. 
Survey of Jewish philosophy from the eighteenth century to the 
present. Works of M. M. Mendelssohn, H. H. Cohen, M. Buber, E. Levinas, and others in relation to broad 
European intellectual movements such as existentialism and 
phenomenology. 

Special Topics in Philosophy (1-24 cr) Prereq: Permission. 

Independent Study in Philosophy (1-24 cr) Prereq: 
Permission. 

Honors Course (1-4 cr) Prereq: Open to candidates for 
degrees with distinction, with high distinction, and with highest 
distinction in the College of Arts and Sciences. 

Undergraduate Seminar in Philosophy (3 cr) Prereq: Philosophy major and permission of philosophy 
undergraduate advisor. Central philosophical problems or the work of some significant 
philosopher. Reading of primary sources, the interpreta-
tion of philosophical texts, and the writing of papers. 

Theory of Knowledge (3 cr) Intensive study of basic problems in the Theory of Knowl-
dge: the nature of knowledge, the analysis of perception and 
memory, the justification of induction, the problem of how 
one knows other minds, and the analysis of a priori knowledge. 

Formal Logic (3 cr) Lec. 3. Prereq: PHIL 211 or equivalent. PHIL 411 is a second course in symbolic logic. 
The main logical results of the twentieth century: Completeness, compactness, and undefinability of first-order 
logic; the Löwenheim-Skolem Theorem; Axiomatic set 
theory: the Gödel incompleteness theorems and non-classical 
logics. 

Modal Logic (3 cr) Prereq: 3 hrs philosophy 
including PHIL 211 or equivalent or permission. Syntax and model theory of quantified modal logic with 
applications to e.g., deontic logic, epistemic logic, and the 
philosophy of logic. 

Philosophy of Mind (3 cr) M ain problems in the philosophy of mind, including dualism and 
materialism, instrumentalism and eliminativism, wide and 
and narrow content, qualia, and mental causation. 

Metaphysics (3 cr) Intensive study of main problems in metaphysics, especially 
universals and particulars, the relation of mind and matter, the 
categories of the real, criteria of identity, and existential op-
positions. Readings from main metaphysicians. 

Advanced Ethics (3 cr) Critical study of leading theories in ethics, with close atten-
tion to major works, chiefly modern and contemporary. 
Includes naturalism, intuitionism, emotivism, utilitarianism, 
and Kantian ethics, and various current positions. 

Further details concerning the Department's undergraduate programs are given in the book-
let, Undergraduate Student Handbook, which is 
available in the Department Office, 116 Brace Lab. Also, see the Department's Chair, Under-
graduate Adviser, Professor C. E. Jones, 313 
Ferguson Hall. 

Pass No Pass. Students majoring in physics may not take any course from the list of core 
courses or from the list of track courses for Pass 
N o Pass credit. Students who are getting a minor in physics may not take any courses listed as requirements for the Plan A or Plan B minor in physics for Pass 
N o Pass credit. 

Requirements for the Bachelor of Science, Major in Physics 

The requirements of the bachelor of science in physics consists of the Core 
Courses required of all students plus the courses from one of the Tracks listed below. The following 
chart summarizes the credit hour requirements 
N o minor is required. 

Core Courses for the BS Degree........................................ 52 

The following required courses are listed in the recom-
meded sequence. 

PHYS 201  Modern Physics in Physics & 
Astronomy................................................................. 3 

PHYS 211  General Physics I ..................................... 4 

PHYS 221  General Physics I Laboratory................. 1 

Associate Professors: A d anwall, B atelain, C laes, 
and P. E. Aron. 

Assistant Professor: B e t t o, L e e 

Lecturer: Y e n e n 

The Department of Physics offers programs 
leading to the bachelor of arts and bachelor 
of science degrees. Students preparing for either 
granted degree or a professional career in physics 
should pursue the bachelor of science degree (Professional Track described below). For 
students who have special interests, the Depart-
ment offers additional tracks in astrophysics, 
optics and lasers, materials physics, and compu-
tational physics. The interdisciplinary bachelor 
of science degree in the area of engineering 
physics is offered through the College of Engi-
neering. 

The courses required for the bachelor of arts 
degree in physics offer a broader program in 
science and the liberal arts suitable for a variety of 
preprofessional curricula and for interdisciplinary 
study in areas including biophysics, chemical 
physics, and geophysics. Students in this 
degree program should select elective courses in 
consultation with their advisers. 

I. Professional Track................................................. 18 

The Professional Track is designed for students 
intending to pursue graduate study or employ-
ment in physics or a related scientific or engi-
neering discipline. The following required 
courses are listed in the recommended sequence: 

PHYS 411 Experimental Physics I................................. 3 

PHYS 442 Experimental Physics II................................ 3 

PHYS 452 O ptics & Electromagnetic Waves............... 3 

PHYS 462 A tomic, N uclear & Elementary Particles..... 3 

In addition, at least 6 hours must be taken from the following 
courses: 

PHYS 343 Physics of Lasers & Modern Optics......... 3 

PHYS 391 Concepts of Modern Physics................. 3 

PHYS 451 Electromagnetic Theory............................. 3 

PHYS 456 Quantum Mechanics.................................. 3 

1. Professional Track................................................. 18 

The Professional Track is designed for students 
intending to pursue graduate study or employ-
ment in physics or a related scientific or engi-
neering discipline. The following required 
courses are listed in the recommended sequence: 

PHYS 411 Experimental Physics I................................. 3 

PHYS 442 Experimental Physics II................................ 3 

PHYS 452 O ptics & Electromagnetic Waves............... 3 

PHYS 462 A tomic, N uclear & Elementary Particles..... 3 

In addition, at least 6 hours must be taken from the following 
courses: 

PHYS 343 Physics of Lasers & Modern Optics......... 3 

PHYS 391 Concepts of Modern Physics................. 3 

PHYS 451 Electromagnetic Theory............................. 3 

PHYS 456 Quantum Mechanics.................................. 3 

In addition, at least 3 hours must be taken from the following courses. U to 3 hour of PHYS 391 Undergraduate Research may be counted towards these 6 hours by substitution, provided that the research project is approved by the Chair of the Department.

1. Standard Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 480</td>
<td>Intro to Lasers &amp; Laser Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

Requirements for the Bachelor of Arts, Major in Physics

The departmental requirements for the bachelors of arts in physics consists of the Core Courses plus the courses from the Standard Track listed below. The following chart summarizes the credit hour requirements. No minor is required.

<table>
<thead>
<tr>
<th>Bachelor of Arts</th>
<th>Core Track</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 201H</td>
<td>PHYS 141</td>
<td>36</td>
</tr>
<tr>
<td>PHYS 211, 221, 212, 222</td>
<td>PHYS 141, 142</td>
<td>12</td>
</tr>
<tr>
<td>PHYS 211, 221, 212, 222</td>
<td>PHYS 141, 142</td>
<td>12</td>
</tr>
<tr>
<td>PHYS 201H</td>
<td>PHYS 141</td>
<td>36</td>
</tr>
</tbody>
</table>

Courses of Instruction

Astronomy (ASTR)

108 D Descriptive Astronomy (3 cr) Lec 3. Elementary astronomy for non-majors.

108H Honors Descriptive Astronomy (3 cr) Lec 3. Prereq: Good standing in the University Honors Program or permission. A more advanced treatment of topics covered in 108.

204 Introduction to Astronomy and Astrophysics (3 cr) Lec 3. Prereq: PHYS 211 and MATH 107. Introductory course designed for science majors.

V. Computational Physics Track

The Computational Physics Track (for the Physics B.S.), is designed for students intending to pursue graduate study or employment in Computational Physics or related disciplines. The following required courses are listed in the recommended sequence.

1. Standard Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 201H</td>
<td>Intro to Lasers &amp; Laser Applications</td>
<td>3</td>
</tr>
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</table>

Requirements for the Minor in Physics

Plan A1. (19 cr)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 211, 221, 212, 222</td>
<td>PHYS 141, 142</td>
<td>12</td>
</tr>
<tr>
<td>PHYS 213</td>
<td>PHYS 204</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 201H</td>
<td>Add one course from ASTR 403, 404, 405, 407.</td>
<td>1</td>
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Plan AII. (22 cr)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>PHYS 211, 221, 212, 222</td>
<td>PHYS 141, 142</td>
<td>12</td>
</tr>
<tr>
<td>PHYS 213</td>
<td>ASTR 204</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 201H</td>
<td>Add one course from ASTR 403, 404, 405, 407.</td>
<td>1</td>
</tr>
</tbody>
</table>

Plan B1. (15 cr)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>PHYS 211, 221, 212, 222</td>
<td>PHYS 141, 142</td>
<td>12</td>
</tr>
<tr>
<td>ASTR 204</td>
<td>ASTR 224</td>
<td>3</td>
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Plan BII. (15 cr)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>PHYS 211, 221, 212, 222</td>
<td>PHYS 141, 142</td>
<td>12</td>
</tr>
<tr>
<td>ASTR 204</td>
<td>ASTR 224</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduate Work. The advanced degrees of master of science and doctor of philosophy are offered. For details of these programs, see the Graduate Studies Bulletin.
403/803. Galactic and Extragalactic Astronomy (3 cr) Lec 3. Prereq: AST R 204 and PHY S 213, and permission. Introduction to the techniques for determining constituents and dynamics of our galaxy, including interstellar matter and theories of spiral arm formation. Extragalactic topics include basic characteristics of galaxies, active galaxies, quasar evolution, and the cosmological distance scale.

404/804. Stellar Astrophysics (3 cr) Lec 3. Prereq: AST R 204; PHY S 213; and permission. Stellar atmospheres, interiors, and evolution. Theoretical and observational aspects of stellar Astronomy. The relation between observed parameters and theoretical parameters, star formation, stellar energy generation, and degenerate stars.

405. Physics of the Solar System (3 cr) Lec 3. Prereq: PHY S 212 or 142; and MATH 101. Cepheid variables and their relation to the age and distance of the universe. Forces, the atomic view of matter, kinds and transformations of energy, the nature of electricity and magnetism, sound and light waves, and subatomic particles. Some topics selected according to student interest.

411 [411x]. Elementary General Physics I (3 cr) Lec 3, rct 1, lab 3. Prereq: MATH 102 or equivalent. C areas toward the degree may be earned in only one of PHY S 141, 141H, and 151. Lab fee required. Mechanics, electricity, waves and sound.

413H. Honors Elementary General Physics I (5 cr) Lec 4, lab 3. Prereq: Good standing in the University Honors program or by invitation; MATH 102 or equivalent. Credit toward the degree may be earned in only one of PHY S 141, 141H, and 151. Lab fee required. For course description, see PHY S 141.

414 [414x]. Elementary General Physics II (5 cr) Lec 3, rct 1, lab 3. Prereq: PHY S 141 or 141H. Lab fee required. Continuation of PHY S 141. Electricity, magnetism, optics, relativity, atomic and nuclear physics.

416H. Honors Elementary General Physics II (5 cr) Lec 4, lab 3. Prereq: Good standing in the University Honors program or by invitation; PHY S 141 or 141H. Lab fee required. For course description, see PHY S 142.

417. Elements of Physics (4 cr) Lec 3, rct 1. Prereq: PHY S 141 and 141H or MATH 102 or parallel. Credit toward the degree may be earned in only one of PHY S 141, 141H, and 151. Short course, without laboratory, for those who need one semesters of elementary general physics. Emphasis on understanding our physical environment through application of principles of mechanics, heat, sound, electricity, and light.

421H. Honors Modern Topics in Physics and Astronomy (3 cr) Lec 1, lab 3. Prereq: PHY S 142 or parallel; and a lab course in science or engineering. Physical principles and techniques of lasers and modern optics. Emphasis on practical experience with state-of-the-art techniques and applications.

421 [211x]. General Physics I (4 cr) Lec 3, rct 1. Prereq: PHY S 141 or 141H or MATH 102 or parallel. Calculus based course intended for students in engineering and the physical sciences. M echanics, fluids, wave motion, and heat.

421H. Honors General Physics I (4 cr) Prereq: Good standing in the University Honors Program or by invitation; MATH 106 or 106H or equivalent or parallel. For course description, see PHY S 211.

422 [212x]. General Physics II (4 cr) Lec 3, rct 1. Prereq: PHY S 141 or 141H or MATH 102 or parallel. Continuation of PHYS 211. Electricity, magnetism, and optics.

422H. Honors General Physics II (4 cr) Prereq: Good standing in the University Honors Program or by invitation; MATH 107 or equivalent or parallel. A calculus-based course. For course description, see PHY S 212.

423. General Physics III (4 cr) Lec 3, rct 1. Prereq: PHY S 141 or 141H or MATH 102 or parallel. Continuation of PHY S 212. Relativity, quantum mechanics, atoms, and nuclei.

423H. Honors General Physics III (4 cr) Lec 3, rct 1. Prereq: Good standing in the University Honors Program or by invitation; PHY S 211 or 211H; MATH 107 or equivalent or parallel. A calculus-based course. For course description, see PHY S 213.

424. General Physics Laboratory I (1 cr) Lab 3. Prereq: PHY S 211 or parallel; 0 personal lab to accompany PHY S 211. Experiments in mechanics, heat and wave motion.

424H. Honors General Physics Laboratory I (1 cr) Lab 3. Prereq: PHY S 212 or parallel. Laboratory experiments in electromagnetism and optics.

425. General Physics Laboratory II (1 cr) Lec 3, rct 1. Prereq: PHY S 212 or parallel. Laboratory experiments in electromagnetism and optics.

425H. Honors General Physics Laboratory II (1 cr) Lec 3, rct 1. Prereq: PHY S 213 or parallel. Laboratory experiments in electromagnetism and optics.


428. Special Topics in Physics (1-24 cr, max 6) Topic varies.

429. Physics (PHYS) (Exclusive of Astronomy)

429H. Honors, Course (1-4 cr per sem, max 8) Prereq: Permission. Research participation.

439. Honors, Course (1-4 cr) Prereq: Open to candidates for degrees with distinction, with high distinction, and with highest distinction in the College of Arts and Sciences.

440/801. Computational Physics (3 cr) Lec 1, lab 3, phy 3. Prereq: PHY S 211 or parallel. Enroll in at any PHY S. Re-formulation of physics problems for solution on a computer, control of errors in numerical work, and programming.

442/822. Introduction to Physics and Chemistry of Solids (ELEC 422/822) (3 cr) Prereq: PHY S 213 or C H E M 481/881, MATH 220/220 or 221/221, or permission. Introduction to structural, thermal, electrical, and magnetic properties of solids, based on concepts of atomic structure, chemical bonding in molecules, and electron states in solids. Principles underlying molecular design of materials and solid-state devices.


444/841. Experimental Physics I (3 cr) Lec 1, lab 3. Prereq: PHY S 213, 223, and 231; or permission. Lab fee required. Methods and techniques of modern experimental physics.

445/842. Experimental Physics II (3 cr) Lec 1, lab 3. Prereq: PHY S 441/841 or permission. Lab fee required. Continuation of PHY S 441/841.


461/861. Quantum Mechanics (3 cr) Lec 3. Prereq: PHY S 213 and 311; or permission. Basic concepts and formalism of quantum mechanics with applications to simple systems.

462/862. Atoms, Nuclei, and Elementary Particles (3 cr) Lec 3. Prereq: PHY S 461 or permission. Basic concepts and experimental foundation for an understanding of the atoms, nuclei, and elementary particles.

470. Special Topics in Physics (1-3 cr, max 9) Prereq: Permission. Offered as the need arises to treat special topics not covered in other 400-level courses.

480. Introduction to Lasers and Laser Applications (ELEC 480/880) (3 cr) Prereq: PHY S 213. For course description, see ELEC 480/880.

488. Special Topics in Physics (1-24 cr) Prereq: Permission.

899. Masters Thesis (6-10 cr) Refer to the Graduate Bulletin for 900-level courses.
Plant Biology

Steering Committee: Paparozi (chair) (agronomy and horticulture); Lee (agronomy and horticulture); M. Ackersie (agronomy and horticulture, biological sciences, and plant sciences initiative); M. Wirtz (biochemistry); O. Sherman (biological sciences) (powers (plant pathology); Schacht (agronomy and horticulture); Wedin (natural resources)

Chief Academic Adviser: Lee (agronomy and horticulture) 262 Plant Sciences
Website: http://plantbiology.unl.edu

The plant biology major is designed to provide a flexible entry for undergraduate students that have an interest in the plant sciences. One course enrolled in the program, students will take a core of classes that will allow them to continue in the plant biology major or would also allow them to easily transfer to other Life Sciences programs. Students will have the opportunity to interact with the faculty of the Plant Science Initiative as well as the above departments and schools for advising and research opportunities.

The goal of the plant biology program is to offer a field of study to students who are interested and talented in the basic sciences and mathematics and who: 1) may never have considered applying this knowledge to plants; 2) have always dreamed of this field of study, and/or 3) have always had an interest in plants but are uncertain that this field of study is right for them.

The purpose of this field of study would be to allow students to explore their knowledge of plants at the following levels: 1) molecular (biotechnology option); 2) cellular and organismal (biological, biochemical/chemical sciences); 3) whole plant/applied physiological (horticulture and agronomy courses); and 4) ecological (ecology and management option). Students may select a bachelor of science track through the College of Agricultural Sciences and Natural Resources (see Plant Biology on page XX) or a bachelor of science track through the College of Arts and Sciences. Every major must complete a set of core courses that provide breadth in basic sciences Introduction to Plant Biology should be taken during the first semester in the program. Presentation of their research in the Introduction to Plant Biology course.

Program Assessment: To gauge the effectiveness of this program, students will be required to start and maintain an experiential portfolio throughout their program, culminating with a presentation of their research in the Introduction to Plant Biology course.

Requirements for the Major in Plant Biology

The core courses and one of the options must be completed.

Core Courses (BS degree)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>AGRO/HORT/NRES 110</td>
<td>Intro to Plant Biology</td>
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Hours

AGRO/HORT/NRES 110 Intro to Plant Biology...

Introduction to Plant Biology should be taken during the first semester in the program.

Core Courses (3 cr)

AGRO 395; AGRO/RNGE/SOIL 295; HORT 395; NRES 497; NRES 498; AGRO/RNGE/SOIL 496; HORT 396 or 399; NRES 496 Independent Study/Current Project...

MATH 106 or 106B Analytical Geometry & Calculus I

STAT 218 Intro to Statistics...

AGRO 315 or BIS 260 Genetics...

AGRO 325 Introductory Plant Physiology...

AGRO 321 & 322, or higher...

AGRO 102 Cell Structure & Function...

AGRO 103 Organic Biology...

AGRO 109 General Botany...

AGRO 207 Ecology & Evolution...

AGRO 471 Plant Taxonomy...

CHEM 109 General Chemistry I...

CHEM 110 General Chemistry II...

CHEM 251 & 253L Organic Chemistry & Lab...

ALEC 388 Ethics in Agriculture & Natural Resources (3 cr)

In the course of satisfying the College of Arts and Sciences ES requirements, students are encouraged to include a course in economics, and courses which will further enhance their oral communication skills. See your adviser to determine which course or courses may be best for you.

Students interested in attending graduate school should also take PHY 141 or higher.

Ecology and Management Option

AGRO 153. Soil Resources (4 cr)

AGRO 444 Vegetation Analysis (3 cr)

In addition, students must take at least 3 credits from each of the following six categories (Water/Climate, Geospatial Information Sciences, Plant Identification, Plant-Animal Organismal Interactions, Ecology and Management II).

Water/Climate

MCTR 200. Weather & Climate (4 cr)

NRES 208. Applied Climate Sciences (3 cr)

NRES 408. M. Microclimate. The Biological Environment (3 cr)

WATS 281. Intro to Water Science (3 cr)

Geospatial Information Sciences

GEOG 412. Intro to Geographic Information Systems (4 cr)

GEOG 418. Intro to Remote Sensing (4 cr)

NRES 312. Intro to Geospatial Information Sciences (3 cr)

NRES 308. Intro to Water Science (3 cr)

Biological Sciences

AGRO 460. Soil M. Microbiology (3 cr)

BIOS 205. Genetics, Molecular & Cellular Biology Lab (2 cr)

BIOS 302. Advanced Cell Structure & Function (3 cr)

BIOS 407. Biology of Cells & Organelles (4 cr)

BIOS 418. Advanced Genetics (3 cr)

GEOG 412. Intro to Geographic Information Systems (4 cr)

GEOG 418. Intro to Remote Sensing (4 cr)

NRES 312. Intro to Geospatial Information Sciences (3 cr)

Biotecnology Option

AGRI 115. Biotecnology: Food Health & Environment or PLPT 250 Biotecnology: From Science to Society (3 cr)

AGRI 216. Plant Breeding Principles & Practice (2 cr)

AGRI 312. Fundamentals of M. Microbiology (3 cr)

AGRI 427. Practical Bioinformatics Lab (3 cr)

AGRI 312. Fundamentals of M. Microbiology (3 cr)

AGRI 427. Practical Bioinformatics Lab (3 cr)

AGRI 312. Fundamentals of M. Microbiology (3 cr)

AGRI 427. Practical Bioinformatics Lab (3 cr)

AGRI 427. Practical Bioinformatics Lab (3 cr)

AGRI 480. M. Microclimate. The Biological Environment (3 cr)

AGRI 480. M. Microclimate. The Biological Environment (3 cr)

AGRI 480. M. Microclimate. The Biological Environment (3 cr)

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AGRI 480. M. Microclimate. The Biological Environment (3 cr)
Applied Plant Biology
AGRO 131 & 132. Plant Science & Lab or HORT 130. Intro to Horticulture Science (4 cr)
AGRO 411. Crop Genetic Engineering (1 cr)
AGRO 412. Crop and Weed Genetics (1 cr)

Plant and Food System Management
AGRO 204. Resource Efficient Crop Management (3 cr)
AGRO 220. Principles of Weed Science (3 cr)
AGRO 240. Forage Crop & Range Management or HORT 327. Forage Crop & Range Management (3-4 cr)
AGRO 405. Crop Production Management or AGRO 435. Agroecology (3 cr)
AGRO 437. Animal, Food & Industrial Uses of Grain (2 cr)
AGRO 438. Producing Grain for Animal Food & Industrial Uses (1 cr)

FDST 425. Food Toxicology (2 cr)
FDST 405 & 406. Food Microbiology & Lab (5 cr)

ENTO 115. Insect Biology (3 cr)
AGRO 240. Forage Crop & Range Management
AGRO 220. Principles of Weed Science (3 cr)

Requirements for the Major in Plant and Food System Management
20 hours including: a) POLS 100 or 100H or 105; b) POLS 108 or 380 or 385 or 483 or 484 or 485 or 486; c) PO LS 400; d) 6 hours each in any of the three following categories: American government, politics and law; foreign and comparative government; international relations political theory; methodology, and behavior; public administration and policy; e) at least 9 hours at the 400 level.

• No minor is required.

Honors Program. Students interested in the honors program should contact John Gruhli, honors adviser, for further information.

Policy Certificate. An Undergraduate Public Policy Analysis Certificate, through political science, is available to undergraduates in any major and is for students interested in policy issues, policy-related job opportunities, and/or skills for the analysis of public policies and programs. For more information, visit www.unl.edu/polisci/public/public_undergrad.html.

Prelaw Students. Students in prelaw may find the courses in American government, politics, and law particularly useful. In particular, they are advised to take some of the following courses: POLS 325, 345, 350, 441, 442, 443, and 469. College pre-law advising is located in the Advising Center, 107 Oldfather Hall.

Graduate School. Students intending to pursue higher degrees in political science should take POLS 486.

Requirements for the Minor in Political Science
Plan A. 18 hours including POLS 100 and at least one course at the 300 level.
Plan B. 12 hours
Graduate Work. The advanced degrees of master of arts and doctor of philosophy are offered. For details on these programs see the Graduate Studies Bulletin.

Courses of Instruction (POL S)
American Government, Politics, and Law

ES] 100 [100x]. Power and Politics in America (3 cr)
Introduction to American government and politics.

ES] 105. American Ways (HIST 105) (3 cr) Prereq: Open to freshmen only. Not open to students with credit in HIST 201 or 202 or POLS 100. For course description, see HIST 105.

ES] 221. Politics in State and Local Governments (3 cr)
Broad introduction to the political structure and operations of state and local governments. Role and power of state and local government institutions; political parties and interest groups; public policy; state constitutions.

ES] 225. Nebraska Government and Politics (3 cr)
Various aspects of Nebraska government and politics. unicameral legislature, the governor and executive branch, the courts, political parties in Nebraska politics, political participation, and current issues of concern to Nebraskans.

ES] 227. The Presidency (3 cr)
Creation, development, structure, powers, and functions of the office of the President of the United States.

ES] 230. (200x). Elections, Political Parties, and Special Interests (3 cr)
Roles of political parties and interest groups in government and politics, focusing on their efforts of elections and lobbying.

ES] 232. Public Issues in America (3 cr)
Major public issues in American politics. Government spending, civil rights, welfare and health care, poverty, education, urban problems; crime, violence and repression; defense policy; agricultural policy; environment; energy policy.

ES] 234. Government Regulation (3 cr)
Development of regulatory agencies; their functions, intended and unintended impact, and organizational and philosophical critiques of existing regulation; relationship of regulation to the constitutional separation of powers and limits of democracy.

ES] 288. Blacks and the American Political System (ETHN 288) (3 cr)
Role of the Blacks in the American political system, with emphasis on strategies used to gain political power and influence decision makers; problems faced in the southern and urban political settings.

ES] 325. Legislative Process (3 cr)
Legislature role in the American arrangement of legislative-executive-judicial responsibilities. Attention to the internal operation of the Congress with focus on the standing committee stage. State legislative experiences and proposals to reform the legislative system emphasized.

Attributes and behavior of citizens with respect to politics; how these attitudes and behaviors are shaped, how they are measured, and what influence they have on government.

ES] 388. Women and Politics (3 cr)
Survey of women as political actors' participation in political life, barriers to participation, political attitudes, issues of special concern to women, and issues of particular concern to women of color.

ES] 425. Congress and Public Policy (3 cr)
The policy-making role of the Congress including the institutionalization of the House and Senate, an analysis of congressional behavior, the committee process, and the policy responsiveness of Congress.

ES] 426. Topics in American Public Policy (3 cr)
Pol is 426/826 may be repeated for up to 6 credit hours.

ES] 430. Political Communication (COMM 430/830) (3 cr)
Prereq: 12 hrs communication studies, including COMM 104 or permission. Role of communication in the political process, with emphasis on communication strategies in political campaigns. Includes communication variables important in the political process, an application of communication theory and principles to political rhetoric, and analysis and criticism of selected political communication events.

ES] 442. Civil Liberties Freedom of Expression and Conviction (3 cr)
Supreme Court doctrine interpreting the First Amendment, covering freedom of speech, assembly, and association; freedom of the press and freedom of religion.

ES] 443. Civil Liberties Issues of Fairness and Equality (3 cr)
Supreme Court doctrine covering the rights of the accused, the right to privacy and the right to racial and sexual equality.

ES] 481. Political Behavior (3 cr)
Various theories of political behavior at the individual level; the usefulness of these theories in explaining individual political behavior.

ES] 504. Comparative Politics (3 cr)
Differences and similarities of the principal types of modern political systems, including types of democracies and dictatorships found in Western systems, Eastern systems, and the Third World. Occasional comparison made with American institutions and political processes. Deals both with structures and major policy problems confronting these political systems.
politics of education, human rights, demands for regional autonomy, ethnic conflict and diversity, political violence, policy formulation, and the various factors that influence policy outputs, the relationship between policy outputs and policy outcomes, and the evaluation of policy outputs and the influence of policy on politics.

[ES] 171. Introduction to East Asian Civilization (H IST 181) (3 cr)
For course description, see H IST 181.

[ES] 271. West European Politics (3 cr)
Postwar Western European politics and policy-making in comparative perspective. Political institutions and the role and behavior of political parties. European integration, environmental policy, welfare policy regionalism, and immigration.

[ES] 272. Non-Western Politics (3 cr)
Introduction to the politics of the Third World nations of Asia, Africa, and Latin America. Evolution of post-colonial state, the origins and explanations of political violence, and the effects of economic weakness, cultural pluralism, and social structure on politics. Examined within the context of the international political and economic system.

[ES] 274. Developmental Politics in East Asia (3 cr)
Political economy of development in the "Asian Tigers" Taiwan, South Korea, and Malaysia. Historical roots of these "developmental states." Political and economic structures associated with rapid development. Process of democratization and political change that have occurred as these states modernize.

[ES] 275. Post-Communist Politics and Change (3 cr)
PO LS 275 requires theoretical and comparative thinking using concrete cases in the analysis of new political systems, regime transformation, state-society debates, and democratization. Post-communist politics of East Central, Central Europe or Eastern Europe (including/elsewhere countries focusing on the Czech Republic, Hungary, Poland, and the Yugoslav states). Politics and history of the region.

[ES] 277. Latin American Politics (3 cr)
Constitutional and political development of selected Latin American countries, contemporary problems and institutions. Latin America in world affairs with special reference to the inter-American relations and the United States.

[ES] 281. Challenges to the State (W M N S 281) (3 cr)
Challenges to the state in the early postwar period to the present. How the balancing act between individual countries' national interests and the transfer of sovereignty to the supranational government affects the EU's future.

European Union from its inception in the early postwar period to the present. The balance between national interests and the transfer of sovereignty to supranational institutions. The construction of EU institutions.

[IS] 372. Russian Politics (3 cr)
Political, economic, and social changes currently affecting the Russian economy. The role of Russian domestic and foreign policy. Problems and challenges of democratization and economic reform.

[IS] 374. Japanese Politics (3 cr)
Introduction and overview of post-war Japanese politics, focusing on rise and fall of one-party democracy and political economy of Japan's capitalist development state, and examining impact of rapid development to Japanese society.

[IS] 376. Chinese Politics (3 cr)
Contemporary Chinese politics emphasizing the role of key leaders. The relationship between government and market, and the impact of China's political system on its foreign policy.

463/463x. 463/463x. Foreign Policy and the Use of the Military (3 cr) Lec 3.
Military action as an instrument of foreign policy. Constitutional basis of the president's and Congress's war powers. Assessments of the role of the White House, Congress, the State Department, and the Department of Defense. The military and the United Nations. NATO and regional integration - the will of states to cooperate in regional integration and engage in regional integration. The role of Western industrial societies. Policy formation and the various factors that influence policy outcomes. The relationship between policy outputs and policy outcomes, and the evaluation of policy outputs and the influence of policy on policy.

472. State Terror (3 cr) Prereq: Permission.
Use of terror and political violence. A case study of cases of mass political terrorist killings. Why and which states use terror and political violence against their own citizens.

474/474. Comparative Institutions (3 cr)
Formal and informal institutions such as constitutions, electoral rules, property rights, and civil rights. How and why people in different groups, countries, and cultures construct institutions to facilitate collective action. Whether different groups construct distinctly different institutions to deal with similar problems and why similar institutions seem to work differently in distinct societies.

476. Ethnic Conflict and Identity (J U D D S 476) (3 cr)
Theories of nationalism and ethnic conflict. Case studies of Europe, the Middle East, and Africa. How the Cold War as an international system influenced ethnic and religious conflicts and how these conflicts for influence and authority and dominate in the "New World Order." The division of the world along ethnic, religious, and class lines rather than by ideology. The future of international politics and the reassessment of the causes of conflict and their containment.

477. Israel and the Middle East (J U D D S 477) (3 cr)
Israel, politics, society, and relations with its neighbors. A look at the Palestinians. A look at Zionism and the Palestinian response to it. Wars between Israel and Arab neighbors, and the eventual peace agreements between the two; the internal dynamics of Israeli political life and state of Zionism today.

478/478. Pro-seminar in Latin American Studies (I D S 478) (3 cr, max 6) Prereq: Junior standing and permission. Topical seminar required for all Latin American Studies majors. For course description, see AN T H 478/478.

872. Seminar in Comparative Politics (3 cr)
Refer to the Graduate Bulletin for 900-level courses.

International Relations

360. International Relations (3 cr)
A study of the contemporary international relations and the role of the great powers. Their role and influence on international relations and their participation in the United Nations.

361. International Law and Organizations (A N T H 476, 476) (3 cr)
Selected current or otherwise important issues in international relations. Continuation of courses in law, ideology, governmental organizations, and contemporary international relations. The future of international law and organizations.

365. Advanced Concepts in International Relations (3 cr)
Students who have completed other courses in international relations and have demonstrated an interest in the topic.

367. Comparative International Relations (3 cr)
Theories of international relations and their application to specific cases.

368. International Organizations (3 cr)
The role of international organizations in contemporary international relations. The role of the United Nations, the International Court of Justice, the World Court, the International Criminal Court, and other international organizations.

375. Comparative Politics in Asia (3 cr)
Comparative politics of selected Asian countries, including China, Japan, and South Korea. The role of the United Nations in Asian countries.

376. Political Theory (3 cr)
Introduction to major political theories and controversies that have developed in the Western world. Liberty, equality, democracy, human nature, among others. Readings come from leading political theorists, past and present.

378. Theory of International Law (3 cr)
Introduction to the political economy of international law. The role of international law in contemporary international relations. The role of the United Nations in contemporary international relations. The role of the International Court of Justice in contemporary international relations. The role of international organizations in contemporary international relations.
The undergraduate degree program in psychology is designed to provide students with educational experiences that are conducive to entering diverse careers ranging from academic psychology to such applied fields as counseling, business, and human services. Careful selection of courses from within the required groups and of supplementary courses in psychology and related fields will help students pursue their chosen career. Students who plan to major in psychology should meet with a departmental adviser as early as possible to plan a program of courses consistent with their interests and goals.

Requirements for the Major in Psychology

1. PSY C 181
2. Two courses from each of the following groups:
   - Group 1: PSY C 233, 263, 268, 270, 360, 373
   - Group 2: PSY C 287, 288, 289, 380
3. PSY C 350
4. One course from each of the following groups:
   - Group 1: PSY C 456, 460, 461, 463, 464, 465, 476
   - Group 2: PSY C 462, 485, 486, 488, 489
5. Any two additional 400-level courses, excluding 496, 497, 499.
6. Total credit hours required: 32

Appropriate credit toward the psychology major requirements will be granted for psychology courses that are cross-listed in other departments, but taken in another department. Credit toward the major will be granted even if the course is applied to another major or minor.

Program Assessment. In order to assist the department in evaluating the effectiveness of its programs, selected majors will be required to:
1. Submit copies of work produced in 200-, 300-, and 400-level courses to an assessment committee.
2. In their last semester, complete a written exit survey.

Results of participation in these assessment activities will be in no way affect a student's GPA or graduation.

A minor is required. Plan A consists of one minor; Plan B consists of two minors. Check individual department listings for requirements.

Requirements for the Minor in Psychology

Plan A (1 minor):
1. PSY C 181
2. 14 credit hours at the 200 level or above, of which must be at the 300 level or above.
3. Minimum: 18 credit hours

Plan B (2 minors):
1. PSY C 181
2. Plus three other courses at the 200 level or above.
3. Minimum: 12 credit hours

No more than 3 hours from the following courses can count toward the minor: PSY C 296, 297, 299, 396, 496, 497, or 499.
Courses of Instruction (PSYC)

100. Career Planning for Psychology Majors (1 cr) Prereq: PSYC 181. Students planning to take only a minor in psychology may take up to 6 hours Pass/No Pass in their minor(s), subject to the approval of the department(s) granting the minor(s). Students minoring in this department may take up to 6 hours Pass/No Pass.

Graduate Work. Graduate programs leading to the doctor of philosophy degree are offered in the department. A detailed description of these courses appears in the Graduate Studies Bulletin.

150. Introduction to Health Professions (1 cr) Lec 1. Structure, requirements, and nature of health careers.

181H. Honors Introduction to Psychology (4 cr) Prereq: Good standing in the University Honors Program or by invitation. Equivalent to PSYC 181, 1 cr. Honors sections of courses are presented in a manner appropriate for students planning to pursue a career in health professions as quickly as possible, even if they have not taken PSYC 181. This course does not apply to the psychology major.

181H. Honors Introduction to Psychology (4 cr) Prereq: Good standing in the University Honors Program or by invitation. Equivalent to PSYC 181, 1 cr. Honors sections of courses are presented in a manner appropriate for students planning to take only a minor in psychology.

180. Introduction to Psychology (3 cr) Prereq: PSYC 181, 6 cr. Students planning to take only a minor in psychology may take up to 6 hours Pass/No Pass in their minor(s), subject to the approval of the department(s) granting the minor(s). Students minoring in this department may take up to 6 hours Pass/No Pass in their minor(s).

181. Introduction to Psychology (4 cr) Prereq: PSYC 181 or equivalent. Preparation for more advanced psychology courses. The content is presented in a manner appropriate for students planning to take only a minor in psychology.

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181H. Honors Introduction to Psychology (4 cr) Prereq: Good standing in the University Honors Program or by invitation. Equivalent to PSYC 181, 1 cr. Honors sections of courses are presented in a manner appropriate for students planning to take only a minor in psychology.

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180. Introduction to Psychology (3 cr) Prereq: PSYC 181 or equivalent. Preparation for more advanced psychology courses. The content is presented in a manner appropriate for students planning to take only a minor in psychology.

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180. Introduction to Psychology (3 cr) Prereq: PSYC 181 or equivalent. Preparation for more advanced psychology courses. The content is presented in a manner appropriate for students planning to take only a minor in psychology.
471/871. Human Sexuality and Society
(3 cr) Prereq: PSYC C 268 or 373.
Understanding behavioral and psychological phenomena using psychological concepts from physiological, sensory-perceptual, learning, social, and abnormal psychology to provide naturalistic explanations of experiences and events which have been labeled "paranormal." Includes psychic powers (extra-sensory perception, clairvoyance), dowsing, astrology, hypnosis, ghosts, reincarnation, U FO sightings, and UFO abductions.

469. Experiential Learning in Psychology II (1-24 cr) Prereq: Junior standing prior arrangement with and permission of individual faculty member. Pass/No Pass only. Experience within a psychological perspective in a variety of off-campus settings.

486. Special Topics in Psychology (1-24 cr) Prereq: Variable, including permission.

499. Masters Thesis (6-10 cr) Refer to the Graduate Bulletin for 900-level courses.

Public Policy Analysis and Program Evaluation

(Certificate Program)

Coordinator and Chief Adviser: John Comer (political science), 509 Oldfather Hall
Core Faculty: Blake, K. Kone, Smith

Principles and Requirements for the Public Policy Analysis Certificate

The program trains students to analyze systematically and coherently public policies, negotiate multiple and competing interests, and develop in-depth knowledge and application in substantive policy issues.

1. First Level courses cover the theories, processes, models, and methods of policy analysis (6 hrs both courses required)
   - POLS 235, Public Policy Concepts & Processes (3 hrs)
   - POLS 236, Public Policy Analysis M ethods & Models (3 hrs)

2. The Second Level course examines the interpersonal, interagency and intergroup negotiation processes within which policy making occurs (3 hrs)
   - COMM 211, Intercultural Communication (3 hrs)
   - COMM 371, Communication in Negotiation & Conflict Resolution (3 hrs)

3. Third Level courses apply models, methods, and the understanding of the policy process in substantive policy arenas. Students consult with the policy certificate coordinator to create a specialized plan of study for this level. (6 hrs)

4. Fourth Level: Internship (3 hrs capstone experience). Students intern in a government or nonprofit agency relating to their area of interest or expertise. The internship generally occurs after completing or during the last semester of course work for the certificate. The political science undergraduate adviser as well as the policy certificate coordinator will help students find an appropriate policy-relevant internship. Academic credit is particularly important because the subjects that lay the foundation for later training in sociology, plus the courses for a minor, should be carefully selected.

This department participates in the programs of the Institute for International Studies, the Center for Great Plains Studies, and the Institute for Ethnic Studies, Environmental Studies, the Center for Great Plains Studies, and the Women’s and Gender Studies Program.

Sociology

Chair: Dan R. Hoyt, 711 Oldfather Hall
Professors: Carozza, D. egan, H oy t, M ore, W. hite-b ek, W. hitt, W. illiams
Associate Professors: M C q uillan, Tyler
Assistant Professors: C ebalo, F alci, H agw en, S chw a del, T orres S tone

Students considering a major in sociology should consult with the chief adviser of the department before registering for their first classes. This is particularly important because the subjects that lay the foundation for later training in sociology, plus the courses for a minor, should be carefully selected.

This department participates in the programs of the Institute for International Studies, the Institute for Ethnic Studies, Environmental Studies, the Center for Great Plains Studies, and the Women's and Gender Studies Program.

Pass/No Pass. Students majoring in this department may not take courses in the major for Pass/No Pass credit with the possible exceptions of independent study, 3 credit hours of field work, in social work and other hours in excess of those required for the major. Majors may take up to 6 hours Pass/No Pass in their minor(s) subject to the approval of the department(s) granting the minor(s). Students minoring in this department may take up to 6 hours Pass/No
Courses of Instruction (SOCI)

Available at 711 Oldfather Hall.

Requirements for the Major in Sociology

- 30 hours including SOCI 101, 205, 206, and 399, and a significant research experience.
- The research experience requirement may be met in any of the following ways: 1) SOCI 399H; 2) SOCI 495; 3) SOCI 310A and 310B; or 4) SOCI 396. At least 12 hours must be taken at the 300 or 400 level. No more than 6 hours total from internship and independent study courses, SOCI 397 and 399, may be counted toward the major requirements in sociology.

Program Assessment.

In order to assist the department in evaluating the effectiveness of its programs, majors will be required to complete an exit survey during the course of the senior seminar. The instructor will inform the students of the schedule and format of the survey.

Requirements for the Minor in Sociology

- 18 hours including SOCI 101. No more than 3 hours total from internship and independent study courses SOCI 397 and/or independent study 399 may count toward the minor requirements in sociology.

Graduate Work.

The advanced degrees of master of arts and doctor of philosophy are offered. For details of these programs, see the Graduate Studies Bulletin and the departmental bulletin, Sociology Graduate Program Guidelines, available at 711 Oldfather Hall.

Courses of Instruction (SOCI)

[ES][S] 101 (101x). Introduction to Sociology (3 cr)
Students who have previously taken SOCI 100 or 153 may not receive credit for SOCI 101.
Introduction to the sociological study of human behavior, especially social organization, culture, and the social institutions that comprise society. Attention to social change, differentiation, and inequality, and other social issues.

[ES] 170. Introduction to Great Plains Studies (ANTH, GEOL, GISP, NREES 170) (3 cr) Required for Great Plains Studies majors and minors. For course description, see GISP 170.

Topic varies.


[ES] 189H. University Honors Seminar (3 cr) Prereq: Admission to the University Honors Program or by invitation. University Honors Seminar 189H is required of all students in the University Honors Program. Topics vary.

[ES][S] 196. Special Topics (3 cr)
Wide range of different topics at the undergraduate level.

[ES][S] 200. Women in Contemporary Society (3 cr) Interdisciplinary examination of the contributions of women to society and societal attitudes toward women. Roles and values of women in contemporary society. Lecture, discussion, special problems.

[ES] 201 (201x). Social Problems (3 cr) Prereq: 3 hrs of sociology or related social sciences.
Introduction to the sociological analysis of the principal “problem” areas in contemporary society. Analysis of processes of disordering in society, with attention to contrasting processes by which social structures are formed and perpetuated.

[ES] 205. Introduction to Social Research I (3 cr) Prereq: 3 hrs of sociology or related social sciences. SOCI 205 and C RIM 210S 210 cannot both be applied toward the degree in arts and sciences.
Introduction to the techniques of collecting and analyzing data and techniques of research reporting. Emphasis on interpretation and evaluation of sociological research.

Practical exercises in the actual conduct of sociological research projects. Emphasis on training and development of skills, techniques, and methods of data analysis, and interpretation of findings in light of sociological theories.

[ES][S] 209 (209x). Sociology of Crime (3 cr) Prereq: 3 hrs of sociology or related social sciences. C RIM 335 and SOCI 209 cannot both be applied toward the degree in arts and sciences.
Introduction to the sociological approach to the study of crime, including the definition of crime, approaches to its measurement, and the major theories of crime. Social institutions intended to prevent or correct criminal behavior.

[ES][S] 210. Drugs and Society (3 cr) Prereq: 3 hrs of sociology or related social sciences.
Patterns and effects of psychoactive drug use. Analysis of drug abuse; drug education, treatment, and research; public perceptions of drug use and users; alcohol, tobacco, and pharmaceutical industries; governmental regulation of drugs and the politics of drug use. Historical and cross-cultural perspectives.

[ES][S] 217. Nationality and Race Relations (ETHN 217) (3 cr) Prereq: 3 hrs of sociology or related social sciences. Concepts of race and patterns of race distribution. Impact of European expansions on ethnic relations. Topics of ethnic social systems. Patterns of ethnic social interaction. Problems of minorities and Type of ethnic policies.

[ES] 218. Chicanos in American Society (ETHN 218) (3 cr)
Introduction to one of the largest minority groups in the United States—Chicanos. Mexican Americans. Primary consideration given to the history and present status of Chicanos with emphasis on their interaction with various social institutions.

[ES] 225 (225x). Marriage and the Family (3 cr) Prereq: 3 hrs of sociology or related social sciences.

[ES] 241 (241x). Rural Sociology (AECN 276) (3 cr) Prereq: 3 hrs of sociology or related social sciences. For course description, see AECN 276.

R. i.e., of the modern city; patterns of urban growth; demographic, distributive, ecological aspects of the city; institutional and regional tendencies and problems urban-regional planning.

[ES] 261. Conflict and Conflict Resolution (ANTH, POLS 261) (3 cr)
For course description, see POLS 261.

[IS][S] 310A. Doing Sociology: Community-based Research (3 cr) Prereq: SOCI 101 and 205, or permission. SOCI 205 recommended.
Research methods organized around an applied research project. Conduct research in an applied setting, prepare investigatory, problem definition, review of research techniques, and research design and measurement.

Continuation of SOCI 310A.

311. Sociology of Juvenile Delinquency (3 cr) Prereq: 6 hrs of sociology or related social sciences. C RIM 337 and SOCI 311 cannot both be applied toward the degree. Nature and extent of juvenile delinquency, considered in relation to the role of adolescents in modern society. Includes a review of the methods used to study delinquency, theories of delinquency, social influences on delinquent behavior, and the nature of the juvenile justice system.

Social, cultural, political, and economic aspects of sport as a social institution. Gender, race, and social class issues related to sport.

T he introductory study leading to a social research paper. Survey of 19th and 20th century writers whose ideas have had a significant impact on the development of contemporary sociology and sociological theory, including Friedrich Engels, Karl Marx, Max Weber and Emile Durkheim to W. E. B. DuBois, Patricia Hill Collins and Harolds Garfinkle.

363. Research Experience (1-6 cr, max 6) Ind. Prereq: Major or minor in sociology; SOCI 205 and 206; SOCI 355 or 455; and permission.
Participation in a research project under the supervision of an experienced researcher in the Department of Sociology, the Bureau of Sociological Research, or a public agency or private enterprise (e.g., the Gallup Organization) engaged in sociological research.

379. Field Work in Sociology (1-4 cr) Prereq: Major or minor in sociology and permission. Students should see chief undergraduate adviser for details. Field work in public or private organizations.

388. Special Topics (3 cr) Prereq: A statement by department.
Wide range of different topics at the undergraduate level.

399. Advanced Readings (1-24 cr, max 24) Prereq: Senior standing or exceptionally qualified junior; and permission. Special readings on selected topics; investigations in library or field.

399H. Honors Advanced Readings (1-4 cr) Prereq: Open to candidates for degrees with high distinction, and with highest distinction in the College of Arts and Sciences and to seniors and especially qualified juniors; with permission. Special readings on selected topics; investigations in library or field.

407/407. Strategies of Social Research: Qualitative Methods (3 cr)
Systematic review and application of qualitative research methods, including participant observation, unstructured interviewing, audiovisual techniques and personal document analysis. Data collection and interpretation emphasized as well as different theoretical assumptions underlying their various approaches.

415/415. Social Change (3 cr) Prereq: 9 hrs sociology or related social sciences.
Analysis of sociological principles of social change at both the community and primary group level; analysis of research and theoretical literature.

425/425. Contemporary Family Issues (3 cr) Prereq: 9 hrs sociology or related social sciences.
Contemporary issues confronting American families and family research. A developmental, family-policy, family violence, divorce, single parent, and step families.

435/435. Mass Communication (3 cr) Prereq: 9 hrs sociology or related social sciences.
Analysis of sociological principles of social change at both the community and primary group level; analysis of research and theoretical literature.

441/441. Social Psychology (3 cr) Prereq: 9 hrs sociology or related social sciences.
Psychological bases of group behavior, inter-stimulation, and behavioral products.

442/442. Personality and Social Structure (3 cr) Prereq: 9 hrs sociology or related social sciences.
Psychological bases of group behavior, inter-stimulation, and behavioral products.

444/444. Social Demography (3 cr) Prereq: 9 hrs sociology or related social sciences.
Historical and cross-cultural approach to population issues by linking changes in fertility and mortality to social institutions. Focuses on the link between population processes and such issues as gender roles, the role of the family, the Third World, and poverty and inequality.
sociocultural causes of environmentally-related problems and human societies with the natural environment, including Role of humans in the ecosystem, especially the interaction of sociology or related social sciences or permission.

Contemporary theory and research dealing with family structure and change. Focuses on family systems that characterize different sociocultural and social demography groups in our society. Selected problems and contemporary research emphasized.

Analysis of means of social control, with emphasis upon social institutions.

Survey of the nineteenth- and early twentieth-century writers whose ideas had a strong impact on the development of contemporary sociological and social theories. Emphasis on the work of such persons as Karl Marx, Emile Durkheim, Max Weber, George Herbert Mead, and Georg Simmel.

Survey of the development of scholarly thinking on the nature of inequality and social mobility in the United States.

Survey of the nature of science and logic of social inquiry; systematic findings. Intensive analysis of the logic and design of sociological research; the nature of science and logical inquiry; epistemological relations; design of research problems; data collection; techniques of sampling.

Advanced Methods of Social Research II (3 cr) Prereq: SOCI 205 and 206, or permission. Intensive analysis of the logic and techniques of sociological analysis: techniques of scaling and index construction; contingent table analysis; measures of association; parametric and nonparametric statistical inference and generalizations from systematic findings.

Advanced Methods of Social Research I (3 cr) Prereq: SOCI 205 and 206, or permission. Analysis of education as a social institution and its relationship to other institutions, e.g., economy, polity, religion, and the family. Emphasizes the role of the educational institution as an agent of socialization and change. Emphasis on research and policy evaluation.

Advanced Methods of Social Research II (3 cr) Prereq: SOCI 205 and 206, or permission. Analysis of education as a social institution and its relationship to other institutions, e.g., economy, polity, religion, and the family. Emphasizes the role of the educational institution as an agent of socialization and change. Emphasis on research and policy evaluation.

Advanced Methods of Social Research I (3 cr) Prereq: SOCI 205 and 206, or permission. Intensive analysis of the logic and design of sociological research; the nature of science and logical inquiry; epistemological relations; design of research problems; data collection; techniques of sampling.

Sociology of Health and Health Professions (3 cr) Prereq: 9 hrs sociology or related social sciences. Social and cultural bases of health and illness. Socioeconomic factors in the definition of illness and in the organization and distribution of health care.

Sociology of Urban Areas (3 cr) Prereq: 9 hrs sociology or related social sciences. Trends in urbanization that incorporate demography, ecology, and planning. Selected urban problems.

Sociology of Religion (3 cr) Prereq: 9 hrs sociology or related social sciences. Consideration of sources and nature of religion, drawing on contributions of anthropologists, sociologists, psychologists, and others. Emphasis on interaction of religion and society.

History of Sociological Theory (3 cr) Prereq: 9 hrs sociology or related social science. Survey of the development of the discipline, and careers for sociologists. Application of sociological analysis to the problem of power; power structures and elite formation as they relate to democratic society and political extremism.

Group Mobility and Social Institutions (3 cr) Prereq: 9 hrs sociology or related social sciences. The nature of stratification, gendered culture, institutionalized sexism, feminist theory, and sociology of knowledge.

Minority Groups (3 cr) Prereq: 9 hrs sociology or related social sciences. Survey of the development of the discipline, and careers for sociologists. Application of sociological analysis to the problem of power; power structures and elite formation as they relate to democratic society and political extremism.

Political Sociology (3 cr) Prereq: 9 hrs sociology or related social sciences. Survey of the development of the discipline, and careers for sociologists. Application of sociological analysis to the problem of power; power structures and elite formation as they relate to democratic society and political extremism.

Senior Seminar (3 cr) Prereq: Senior standing; sociology major. It is recommended that SOCI 205, 206, and 455 be completed prior to taking the SOCI 474. A senior-level overview of the discipline of sociology, including theory, methods, and substantive areas. Current monographs critically analyzed. The development of sociology, new directions in the discipline, and careers for sociologists.

Speech-Language Pathology and Audiology

Requirements for the Major in Speech-Language Pathology and Audiology

- 55 to 56 hours (need overall minimum major GPA of B/3.0) 
- SLPA 150, 250, 251, 271, 397A (1 hr) 
- 421, 441, 452, 455, 456, 461, 464, 472, 473, STA 218, SPED 400 and SLPA 454; biological sciences anatomy (5 hrs) 
- human physiology (4 hrs)

Speech-Language Pathology requires a masters degree with specialization in speech-language pathology, passing scores on the Pre-Professional Skills Test, EDU C 131, EDU P 250, 251, or CYAF 160, EDU P 362 and SLPA 488 or TEAC 330 or the graduate-level equivalents. Completion of a masters degree with specialization in speech-language pathology and a passing score on the speech-language pathology praxis national certification exam for state licensure in speech-language pathology and a masters degree with specialization in audiology and a passing score on the audiography praxis national certification exam for state licensure in audiology.

Statistics

Head: Walter Stroup, 340 Hurd
Professors: Eskridge, Kachman, M Arx, M Cutch- 
Man, Parkhurst, Sontag
Associate Professor: Bilder, Blankenship, Zhang
Assistant Professors: Hanford, Soukalova, Wang

Statistics is the science of data collection, classification, analysis, and interpretation. It has evolved into a core discipline for a well-rounded liberal arts education, and is of central importance to nearly all of the biological, physical and social sciences. The Department of Statistics offers introductory courses to acquaint students from all disciplines with the essential elements of...
statistical thinking, STAT 218 can be taken to satisfy the ES requirement in mathematics and statistics.

The department also offers a minor in statistics. The minor is a useful complement for many majors in addition, the minor provides background beneficial for graduate study in statistics. Career opportunities for statisticians with masters and doctoral degrees abound in industry, government, and education. Employers include pharmaceutical, health and medical organizations, quality improvement in manufacturing and service, marketing and opinion research, credit and security risk analysis, agribusiness, various governmental agencies including Environmental Protection, Food and Drug Administration, Department of Energy, Census, Energy, Agriculture, and Homeland Security, and emerging fields ranging from bioinformatics to statistical applications in sports.

Requirements for the Minor in Statistics

- STAT 462 and 463 and at least 12 hours from statistics. The minor is a useful complement for many majors in addition, the minor provides background beneficial for graduate study in statistics. Career opportunities for statisticians with masters and doctoral degrees abound in industry, government, and education. Employers include pharmaceutical, health and medical organizations, quality improvement in manufacturing and service, marketing and opinion research, credit and security risk analysis, agribusiness, various governmental agencies including Environmental Protection, Food and Drug Administration, Department of Energy, Census, Energy, Agriculture, and Homeland Security, and emerging fields ranging from bioinformatics to statistical applications in sports.

Courses of Instruction (STAT)

- Interval estimation; point estimation, sufficiency, and completeness; Bayesian procedures; uniformly most powerful tests, sequential probability ratio test, likelihood ratio test, goodness of fit tests; elements of analysis of variance and nonparametric tests.

494. Topics in Statistics and Probability (1-5 cr, max 24)
- Prereq: Permission. Special topics in either statistics or the theory of probability.

496. Independent Study (1-5 cr, max 5)
- Prereq: Prior arrangement with a faculty member and submission of proposed study plan to department office.


804. Survey Sampling (3 cr) Prereq: STAT 880 or IM SE 321 or permission.

831. Spatial Statistics (3 cr) Prereq: MATH 821 and 822.


870. Multiple Regression Analysis (3 cr) Prereq: STAT 801, 802.


874. Nonparametric Statistics (3 cr) Prereq: STAT 801 or equivalent.

880. Introduction to Mathematical Statistics I: Distribution Theory (3 cr) Prereq: MATH 208 or 107H and STAT 218 or equivalent or permission of instructor. STAT 880 is open only to MA or MS students in MATH or STAT.

882. Mathematical Statistics I: Distribution Theory (3 cr) Prereq: MATH 208 or 107H; STAT 380 or equivalent is strongly recommended.


894. Applied Multivariable Statistical Analysis (3 cr I) Prereq: STAT 801 or equivalent.

898. Statistics Project (1-5 cr, max 24) Prereq: Prior arrangement with a faculty member and submission of proposed study plan to department office.


Textiles, Clothing and Design

Coordinated by: Anne Kopeira, 107 O'Leary Hall.

Requirements for the Minor in Textiles, Clothing and Design

Plan A. (15 hours)

TCD 206 Textiles (3 cr)
TCD 213 M merchandising I (3 cr)
TCD 313 M merchandising II (3 cr)

Plan B. (15 hours)

TCD 206 Textiles (3 cr)
TCD 213 M merchandising I (3 cr)
TCD 313 M merchandising II (3 cr)

465. Introduction to Regression Analysis (3 cr) Prereq: STAT/MATH 380 or MATH 114 or 321.
- Ordinary least squares, estimators and their sampling properties, estimation of sample size, stratified random sampling, ratio and regression estimation.

430. 830. Sensory Evaluation (FDST 430/830) (3 cr I)
- Lec 2, lab 2. Prereq: Introductory course in statistics. 830 offers fall semester of odd-numbered calendar years. For course description, see FDST 430/830.

450. Introduction to Mathematical Statistics I: Distribution Theory (3 cr) Prereq: MATH 208 or 107H. STAT 380 or equivalent is strongly recommended.
- Sample space, random variable, expectation, conditional probability and independence, moment generating function, special distributions, sampling distributions, order statistics, limiting distributions, and central limit theorem.

Theatre Arts (Minor Only)

Requirements for the Minor in Theatre Arts

- 18 hours including: THEA 112G, 114, 201, 202, 335 or 336; and 3 hours from among the following: THEA 115, 234, 300, 410, 412, 418, 431.

University Studies Program

Director and Chief Adviser: Amy M. Goodburn, 1223 Oldfather Hall.

Faculty: Brooke (English), Faulkner (music), Foray (political science), Haller (English), Lindsey-Griffith (geosciences), Neal (art and art history), Wharton (anthropology and geography), Woodward (mathematics)

The University Studies Program permits students whose career or educational goals cannot be achieved through listed majors to develop individual degree programs (BA and BS) in the Colleges of Arts and Sciences and of Fine and Performing Arts. Programs will follow the spirit of liberal education, even when they do not fulfill the specific liberal education requirements.

Students should consult the Director or a member of the University Studies faculty before making application. The application takes the form of a letter to the University Studies faculty presenting an appropriate educational and personal history, a justification of the focus of the proposed program, and a tentative listing of courses. Admission will be approved for applicants who present evidence of strong motivation and a capacity to pursue independent work, and who offer a rigorous and balanced program suited to carefully defined aims.

For further information, see Associate Dean Goodburn, 1223 Oldfather Hall.

Courses of Instruction (UST D)


Women's and Gender Studies

Director and Chief Adviser: Margaret Jacobs, 327 Seaton Hall, 472-9300

Faculty: Beck (animal science), Draper, Sanchez, Wandsnider (anthropology and geography), Kuska (architecture), Fuller, Mamiya, Stewart (art and art history), Brand (chemical engineering), Crawford, Lahey (classics and religious studies), May (economics), Fukusho (educational psychology), Bauer, Belasco, D'Ibernardo, Drieh, Eaton, Fodor, Gannon, Goodburn, Homestead, Hone, Motes, Nissen, Pratt, R, az, Ritchie (English), Holmes (geosciences), Akers, Holz, Jacobs, Jones, Kleinola, Levin, Smith (history), Adams (industrial management systems engineering), Posen,
Shavers (law); Hines (mathematics); Balakrishnan, B. (modern languages and literatures); McKie (philosophy); Hunt (psychology); Raffaelli (psychology/ethnic studies); Dreibach (Sheldon M emorials Gallery); Degan, Lehmann, M. (art, design); Wortmann (sociology); H. Eaton, S. (teaching, learning, teacher education); M. C. Hall, Weiss (textiles); James (textiles, clothing and design); Lyons (University Honors Program).

The Women's and Gender Studies major is a multidisciplinary academic program with courses in such areas as history, art, sociology, psychology, economics, literature, and political science, which have a special focus on knowledge relating to women. The program has been designed to help students learn about historical and contemporary contributions of women in various areas of society; to critically examine assumptions about women held by academic disciplines and to evaluate these assumptions in light of current research and individual experience; and to examine traditional and changing sex roles in various cultures.

Requirements for the Major in Women's and Gender Studies

All majors must consult with an adviser from the program. A student may pursue a major through either Option A or Option B. Courses from the major must represent a minimum of five different disciplinary fields. All majors must fulfill the following requirements.

**WMNS 101. Intro to Women's Studies (3 cr)**
**WMNS 400. Senior Seminar (3 cr)**

Introduction to humanities and literature and social sciences (3 hrs from):
- ENGL 215E. Intro to Women's Literature
- ENGL 215J. 20th-Century Women Writers
- WMNS 399. Independent Study

Diversity in humanities and literature (3 hrs from):
- ENGL 212. Intro to Lesbian & Gay Literature
- ENGL 244B. Black Women Authors
- WMNS 436/836. Saints, Witches, and Madwomen

Women's History (ETHN/HIST 456) (3 hrs from):
- WMNS 101. Introduction to Women's Studies
- ENGL 215E. Intro to Women's Literature
- ENGL 215J. 20th-Century Women Writers
- HIST 225. Women in History
- PSY C 421. Psychology of Gender

At least one course at the 300 level or above.

Additional courses for Women's and Gender Studies majors and minors. Other students may take the approved courses from the Women's and Gender Studies majors.

Option A. 36 hours from the courses listed above or below, including the required courses, which combine to cover a minimum of five disciplinary areas.

Option B. 30 hours from the courses listed above or below, including the required courses, which combine to cover a minimum of five disciplinary areas, and at least 18 hours in a related minor field, to be determined by the chief adviser.

Program Assessment: In order to assist the department in evaluating the effectiveness of its programs, majors will be required:
1. To submit for assessment evaluation a copy of research conducted in the senior seminar. The instructor will inform students of deadlines and format.
2. In their last semester, to participate in an exit interview. The undergraduate adviser will inform students of the scheduling and format of the interview.

Results of participation in these assessment activities will in no way affect a student's GPA or graduation.

Requirements for the Minor in Women's and Gender Studies

- WMNS 101. Intro to Women's Studies
- 15 hours of courses in the Women's and Gender Studies Program, including at least 9 hours from three departments chosen from the courses listed here:
  - ENGL 215E. Intro to Women's Literature
  - ENGL 215J. 20th-Century Women Writers
  - HIST 225. Women in History
  - PSY C 421. Psychology of Gender
  - SO CI 200. Women in Contemporary Society
  - WMNS 400. Senior Seminar

At least one course at the 300 level or above. Additional courses may be selected from all approved courses from the Women's and Gender Studies majors.

Additional Courses for Women's and Gender Studies Major and Minor:

- AR CH 481. Women in Design
- CR IM 339. Women, Crime & Justice
- ENGL 231A. The Brontës & Their World
- ENGL 253A. Writing of Poetry: Women's Poetry
- HIST 225. Women in History
- POLS 485. Contemporary Political Theory
- PSY C 410. Sociocultural Aspects of Clothing

Women’s Studies and Minor:

- WMNS 399. Independent Study (max 6 cr)
- WM N S 402/802. Sexuality in Nineteenth and Twentieth Century America
- WM N S 436/836. Saints, Witches & Madwomen
- WM N S 485/885. Feminist Theories, Feminists' Perspectives

Courses of Instruction (WMNS)

- ES/S IS 101. Introduction to Women's Studies (3 cr)
- ES/S IS 189. University Honors Seminar (3 cr) Prereq: Good standing in the University Honors Program or by invitation.
- ES/S IS 218. Philosophy of Feminism (PHIL 218) (3 cr) Lec.
- ES/S IS 242. Native American Women
- ES/S IS 281. Challenges to the State (PO LS 281) (3 cr)
- ES/S IS 329. Women in European History
- ES/S IS 385. Women, Gender and Science
- ES/S IS 399. Independent Study
- ES/S IS 402/802. Sexuality in Nineteenth and Twentieth Century America
- ES/S IS 436/836. Saints, Witches & Madwomen
- ES/S IS 436/836. Saints, Witches & Madwomen
- ES/S IS 441/841. Women and Gender in the United States
- ES/S IS 448/848. History of Women in Gender in the American West
- ES/S IS 456/856. Black and African-American Women's History
- ES/S IS 485/885. Feminist Theories, Feminists' Perspectives

Opinions and thoughts expressed in the text are those of the author and do not necessarily reflect the views of the institution. Introduction to feminist and gender theory. Important theoretical frameworks and implications of these theories in practice.
Pre-Professional Programs and Combined Degree Programs

Pre-Professional Programs

Many students enter the College of Arts and Sciences intending to pursue studies in a health sciences area or law. Some students declare a major in a professional program after three years (minimum 90 hours), leads to the bachelor's degree at the end of four years and the professional degree at the completion of the professional program. With law, the combined course is six years. With medicine, dentistry, or pharmacy is accepted by the College of Arts and Sciences as the equivalent of the fourth year of work for the bachelor's degree as the major, if the student has completed three years of college work before entering the professional program. In these three years of college work, minimum 90 hours, the student must also complete 30 hours in residence (see index for guide to rule on residency), fulfill all general education requirements, the comprehensive education program, and complete one Plan A or two Plan B minors. For a B.S. degree, students must complete the 60 hour scientific base which is comprised of science and math courses.

Pre-Law students who demonstrate exceptional academic ability in three years of undergraduate study must apply to the College of Arts and Sciences for permission to participate in the combined course program. For combined degree programs in medicine, dentistry and pharmacy no application to the College of Arts and Sciences is necessary.

A admission to a professional program in law, medicine, dentistry, or pharmacy is not guaranteed at the time of undergraduate admission to the College of Arts and Sciences. The Combined Degree Program is only an option for students who apply and are accepted into a professional program in law, medicine, dentistry or pharmacy after the third year of undergraduate work.

Pre-Chiropractic

Chiropractic is a branch of health care that focuses on manipulation as the best mode of care and treatment of many injuries and illnesses. It emphasizes the inter-relatedness of the body parts as a whole set, but especially as they relate to the function of the nervous system. Since the majority of the body's organs are innervated by nerves which enter or leave the spine, a major emphasis is on the correct structure and function of the spine and the body joints.

Pre-Clinical Laboratory Science

Medical Technology is the allied health profession concerned with performing laboratory tests that are used in the diagnosis, treatment, and prognosis of disease and in the maintenance of health. The medical technologist performs a full range of laboratory tests from simple pre-marital blood tests to more complex tests to uncover diseases such as AIDS, diabetes, and cancer. The medical technologist is also responsible for confirming the accuracy of test results and reporting laboratory findings to the pathologist and other doctors.

Pre-Clinical Perfusion Science

Perfusionists are skilled allied health professionals, qualified by academic and clinical education, who deal with all phases of regulating and controlling blood flow outside the body, called extracorporeal circulation. The perfusionist operates extracorporeal equipment during any medical situation where it is necessary to support, or temporarily replace, the patient's circulatory or respiratory function. The perfusionist has diverse responsibilities which include the mechanical support of a patient's circulation and pulmonary systems, open heart surgery and is an integral member of the cardiovascular surgery team involved in infant and adult cardiac surgery.

Pre-Cytotechnology

Cytotechnology is an allied health specialty which offers exciting possibilities for those who want a career in science and a significant role in health care. Working with a microscope, cytotechnologists study specimens from all body sites. Using subtle clues in the cells themselves, cytotechnologists can solve the mystery of disease by diagnosing cancer, precancerous lesions, benign tumors, infectious agents, and inflammatory processes. Cytotechnologists help save lives by discovering certain diseases early when treatment is most effective.

Pre-Dental Hygiene

A dental hygienist is a preventive oral health professional licensed in dental hygiene to provide educational, clinical and therapeutic services supporting total health through the promotion of optimal oral health. The dental hygienist is responsible for providing treatment that helps to prevent oral diseases such as dental caries (cavities) and periodontal disease (gum disease) and for educating the patient to maintain optimal oral health.

Pre-Dentistry

Dentistry is devoted to maintaining the health of teeth and gums, as well as other hard and soft tissues of the mouth. Early detection of oral cancer and systemic conditions that manifest themselves through the mouth are necessary for the maintenance of general health. The dentist is, in fact, a person dedicated to the highest standards of health throughout the prevention, diagnosis, and treatment of all oral diseases and conditions.

Pre-Medicine

The medical profession offers a wide variety of career options that are exciting, challenging, and rewarding. Although the environment in which medical services are provided has been changing rapidly and will continue to change, the physician's role as diagnostician, healer, and patient advocate remains central to the provision of health care in our country. Although most physicians provide direct patient care, some M.D. degree recipients combine basic research, teach medical students, or become specialists in fields such as business, insurance, government, writing, resource management, or publishing.

Pre-Mortuary Science

Completion of a professional program in mortuary science leads to licensure as a funeral director/embalmer. Morticians deal with funeral planning, death registration, embalming, and the grief and bereavement issues of families and friends of the deceased.

Pre-Occupational Therapy

Occupational therapy is a health care profession using purposeful activity (occupation) as a means of preventing, reducing, or overcoming physical, social, and emotional challenges in people of all ages. An occupational therapist works with individuals whose participation in daily activities has been impaired by physical injury, illness, developmental, learning disabilities, neurological problems or the aging process. The occupational therapist carefully evaluates each person to determine physical and/or mental strengths and weaknesses, and, in conjunction with other health professionals, develops a program using purposeful activities and adaptive equipment to encourage the patient's involvement in meaningful daily living.

Pre-Ophthalmology

Ophthalmology is the primary health profession dedicated to caring for vision. Through academic and clinical training, optometrists acquire the knowledge and skills needed to diagnose, treat, and prevent problems of the visual system. Providing health education, managing curative or preventive regimes, and supplying vision care to special groups of patients are all parts of an optometrist's work.

Pre-Pharmacy

Pharmacists are responsible for drug therapy and drug distribution and must possess the scientific and technical knowledge necessary to evaluate drug therapy for each individual patient. They must develop skill in personal relations with patients and other health professionals. Above all, they must be able to make good use of acquired knowledge and experience in arriving at sound judgements and policy decisions.
Pre-Radiotherapy Science Technology

Medical imaging is the specialty of the radiologic technologist (or radiographer). As part of the radiology team, the technologist uses radiation and other modalities to produce images of the tissues, organs, bones, and vessels of the human body. The radiographer positions the patient and applies the exact quantity and the precise quality of radiation necessary to produce the image. Physicians trained in radiology interpret the images and diagnose the conditions shown.

The field of nuclear medicine technology uses radioactive isotopes to help find diseases or other conditions in people, to treat some diseases, and to investigate better methods of diagnosis. Disorders in any part of the body may be studied—for example, a blood clot in the lungs or brain, altered rhythm of the heart, or infections in the bone or tissues. The nuclear medicine technologist has many responsibilities caring for the patient, assuring that equipment is operating properly, preparing radioactive drugs, and performing the actual procedures.

High School Preparation

Students planning to pursue advanced work in any of the above pre-professional programs should begin with a strong college preparatory course in high school. In addition to meeting the University entrance requirements, it is recommended that pre-professional students finish four years of the same foreign language in high school. Pre-health students are also encouraged to take as many years of mathematics and science as possible.

Admission to Professional Programs

The admission requirements for these programs vary and may change from year to year. Admission to the professional programs is competitive. Students need to be aware of not only specific course requirements but also entrance exams, admission deadlines, research and volunteer opportunities, and other activities that enhance the application. In order to receive the most timely information on requirements and preparation, students should visit or contact the Arts and Sciences Advising Center, 107 Oldfather Hall, 472-4190, advisingcenter2@unl.edu. Information is also available on the Web site www.ascweb.unl.edu/advice.html.

Nebraska Teaching Certification

The Nebraska Teaching Certificate, appropriately endorsed, entitles one to teach in any school in the state. It is possible to obtain the certificate for elementary school teaching or secondary teaching while earning a bachelor's degree from the College of Arts and Sciences. A student who wishes to obtain a bachelor's degree from the College of Arts and Sciences and the Nebraska Teaching Certificate should do the following:

1. Consult with major adviser.
2. Consult with the advisers in the College of Education and Human Sciences, 107 Henzlik Hall.
3. Enroll in both the College of Arts and Sciences and College of Education and Human Sciences. Forms are available in the Arts and Sciences Advising Center, 107 Oldfather Hall.
4. Fulfill the College of Arts and Sciences general education requirements.
5. Fulfill the College of Arts and Sciences major requirements including the minor, if required.
6. Fulfill professional education requirements, endorsement requirements, and General Education as required by the Nebraska Department of Education. A minimum cumulative GPA of 2.5 is required.

Students planning to follow this course of study should begin by the sophomore year or sooner if possible. Unless the program is carefully planned, it may require more than four years for completion.

If a student is uncertain about whether to earn the bachelor's degree through the College of Education and Human Sciences or the College of Arts and Sciences, he/she should consult the College of Education and Human Sciences Student Services Center, 107 Henzlik Hall, or the Arts and Sciences Advising Center, 107 Oldfather Hall.
College of Business Administration

Cynthia Hardin Milligan, J.D., James Jr. and Susan Stuart Endowed Dean
John E. Anderson, Ph.D., Associate Dean and Baird Family Professor
D'Vee Buss, Ph.D., Assistant Dean
Donna M. Dudney, Ph.D., Assistant Dean

About the College

Mission and Objectives of Undergraduate Degree Program

The mission of the College of Business Administration is to foster intellectual curiosity and business insight by providing high quality instruction, research, and service to students, the citizens of Nebraska, and to the national and international communities served.

The undergraduate program of the College of Business has the following objectives and intended outcomes:

1. Communication Skills: Graduates will be prepared and able to communicate effectively, in writing and in presentations, for a career in business.
2. Intellectual Depth and Breadth: Graduates will demonstrate depth and breadth of knowledge necessary to obtain a career in business.
3. Critical Thinking: Graduates will possess critical thinking (analytical, quantitative, and problem solving) skills and will be able to apply the intellectual depth and breadth with which they have been provided.
4. Business Environment Knowledge and Skills: Graduates will have knowledge and awareness of ethics, technology, diversity, business environment (domestic and international) factors, leadership and team skills, and change management so that they are well prepared for a career in business.
5. Overall Preparation: College of Business graduates will find ready employment in their field or be well prepared for admission into graduate programs.

The faculty of the College has designed the undergraduate curriculum which leads to a degree of bachelor of science in business administration (BS) in conformity with this mission and these objectives. The College emphasizes:

Information, Discovery, and Retrieval (Module 0): to develop the students' basic skills of analysis, communication, analytical and computer in foundation courses, as well as an assessment of learning.

Essential Studies (Module 1 and 2): to develop students' understanding of the society in which business operates and assist students in becoming responsible members of society.

Foundation Business Courses (Module 3): to provide students a general business background.

Core Business Courses (Module 4): to provide students a broad perspective of business areas.

Major Areas of Study (Module 5): to develop depth in a single area of business study; i.e., accounting, actuarial science, agribusiness, business administration, economics, finance, international business, management or marketing.

Elective Options (Module 6, 7 and 8): to round out a student's education with course work in business and non-business areas which complement students' specific area of interest.

Administrative Structure

Degrees, Majors, and Minors

The College offers a bachelor of science in business administration degree, as well as five masters degrees, three joint masters degrees (juris doctorate/master of business administration, juris doctorate/master of professional accountancy, and master of business administration/master of architecture) and two doctor of philosophy degrees. The MBA degree is offered on campus and via distance. Undergraduate students earning a bachelor of science degree may choose a major in: accounting, actuarial science, agribusiness, business administration, economics, finance, international business, management, or marketing. Minors in selected areas are also available to students, as is the option to double major within the College or to pursue a dual degree with another college.

Accreditation

The College is a founding member of AACSB (Association to Advance Collegiate Schools of Business) together with such colleges and universities as Harvard, Yale, University of Chicago, University of Texas and twelve others. Only 441 business schools with graduate and undergraduate level degrees are accredited by AACSB internationally. The College and the School of Accountancy, which is separately accredited, both maintain the high standards required by AACSB for accreditation.
Students

The nearly 3,000 member student body is richly diverse with approximately 6% of the enrollment from other countries. The students are involved in campus and community activities and consistently win awards for leadership. The College sponsors nine student organizations to which students can put their classroom learning to practical use. The Students in Free Enterprise own and manage two businesses under the guidance of the Center for Entrepreneurship. The Student Advisory Board organizes and manages several large events at the College each year including a holiday mixer and B-week. The UNL chapter of the American Marketing Association consistently wins awards at the national competitions. They have previously been named the Outstanding Regional Chapter. The UNL chapter of the prestigious business honorary, Beta Gamma Sigma, celebrated its 83rd anniversary in spring 2007, making it one of the oldest chapters in the U.S.

The other student organizations in the College are: Actuarial Science Club, Agribusiness Club, Alpha Kappa Psi, Beta Alpha Psi, Collegiate Entrepreneurs of the Heartland, Delta Epsilon Chi, Delta Sigma Pi, Finance Club, MBA Student Association, MIS Club, National Agricultural Marketing Association, Omicron Delta Epsilon, Phi Beta Lambda (FBLA), Society for Human Resource Management, Students for Responsible Business, and Undergraduate Women in Business.

Professional and Community Involvement

The College, the students and the business community maintain a strong working relationship. The students benefit from campus visits from visiting executives through the Executive-in-Residence program, the MakersWeek executive, the Leadership Forum, and other guest speakers and classroom visitors. Internships are available from many businesses in the surrounding area. National and regional companies actively recruit our students. Students host business people at various social and educational events at the College.

Recent guest speakers at the College have included: Warren Buffett; Bill Gates; Australian Ambassador, Michael Thawley; Katherine Schipper, Director of the Financial Accounting Standards Board; Carrie Tolstedt, Group Vice President for Wells Fargo Company; Barbara Krumsiek; John Bent; and CEO of The Calvert Funds, Robert Duncan; Chairman of Duncan Aviation; Tom Hoenig, President of the Federal Reserve Bank of Kansas City; and John Hoeven, CEO of Central European Clothing, Tesco.

Faculty

All tenure-track and full-time lecturers are terminally degreed. Lecturers from the business community bring real-world experiences to the classroom. All Ph.D. students are required to take a teaching techniques class. Over the past five years, faculty have published over 30 textbooks, many of which are the leading texts in their field. Several scholarly journals and book series are edited by our faculty. A complete listing can be found on our website at www.cba.unl.edu. Faculty have also published dozens of articles and presented over many national and international conferences. The faculty is consistently recognized by the university for outstanding teaching, research, and advising.

The faculty is active in business, sitting on for-profit and not-for-profit boards of directors and government advisory boards. Many members of the faculty are experts in such matters as economic foundations of emerging countries, management education in Eastern Europe, federal, state, and property tax issues, and business practices and Pacific Rim Countries.

Centers, Institutes and Programs

Cornhusker Fund is a vital part of the curriculum of the Security Analysis course, which allows students to participate in fund management exercises and applications of portfolio theory using actual money. The fund is valued at over $1.3 million.

The Program in Business, Ethics, and Society seeks to enhance the discussion of ethical issues among students, faculty, and community members through curriculum innovations, an ethics resource center, student and faculty research projects, a speaker/colloquium series, and community outreach programs. The program is gaining national recognition for its effectiveness in ethics education.

The agribusiness major, a joint program between the College and the College of Agricultural Sciences and Natural Resources, is designed to meet the agribusiness industry's needs for employees with training in both business and agriculture.

The E.J. Faulkner Small Group Writing Lab is designed to develop essential communication skills that students need to be successful in business. A video presentation lab provides opportunities for students to hone their verbal communications skills.

The School of Accountancy offers an integrated five-year M.asters of Professional Accountancy (M.P.A.) degree. The School of Accountancy is in the top five for placing graduates in the Financial Accounting Standards Board Postgraduate Fellowship program.

The Bureau of Business Research provides valuable economic and demographic data to state and local governments, as well as information on the business climate for new and existing businesses in Nebraska.

The Center for Economic Education provided training for K-12 teachers to educate elementary and secondary students in economics. The center sponsors the Stock Market Game for high school students across the state, as well as Economics Education Day on campus in the fall. The National Center for Research in Economics Education is housed within the center.

The Nebraska Center for Entrepreneurship provides students with the opportunities, advice, and support necessary for starting, owning, and managing a successful small business. The center sponsors an annual conference and two business plan competitions per year.

The Pan Pacific Business Association provides a forum for scholars, executives, and government officials from Pacific Rim countries to discuss important issues relating to a better quality of life in this region. An annual conference, sponsored by the management department, is held in one of the member countries and is open to students participating in the UNL Pan Pacific Study Tour.

The UNL Gallup Leadership Institute provides leadership training through workshops, guest speakers, and special projects. The Institute directs the MA/MB A Program in Executive Leadership and a Ph.D. program with a concentration in leadership.

The Actuarial Science Program, housed within the finance department, is one of the few complete degree programs in the U.S.

The J.D. Edwards Honors Program is an innovative, integrated management and technology program providing students with a deep understanding of both concepts and processes of information technology and business.

Study Abroad

The College of Business has several outstanding study abroad programs.

The Nebraska at Oxford program allows undergraduate students to study British political and economic policy at Oxford University in the summer.

Senshu University in Japan gives students and opportunity to study business and Japanese language in Tokyo.

The Consortium of Universities for International Business offers summer and semester graduate and undergraduate business courses in the Veneto region in Italy.

ESCIM School of Business and Management in Poitiers, France, offers graduate and undergraduate work in management.

The Pan Pacific Study Tour provides opportunities for students to visit businesses and universities in Pacific Rim countries during a three-week tour in the summer. The tour culminates with participation in the Pan Pacific Conference.

Other programs are available in many countries including, Mexico, Spain, and Australia.

Communication Laboratories

Through the College communication laboratories, students in designated business classes work in teams to develop their writing, speaking, and human relations skills. Laboratory staff facilitate the student team projects, act as a resource for individual faculty and students and provide workshops and seminars on communication skills.

Technology

Information Technology Services (ITS) provides Web and information systems development and maintenance for the College and for
the University community, ITS provides hardware and software technology training. Services include Web-based training modules, applications training, classroom instructional equipment training, and just-in-time training.

The College has 26 lecture classrooms equipped with technology rich consoles. The College also offers three interactive computing classrooms. The building is equipped with a wireless Internet system. Video conferencing is available. Walk-up e-mail stations are placed conveniently throughout the building.

The Cobe Computer Center provides a computing environment to support instructional and research activities. Located in the lower level of the College, the Cobe Center encompasses 1,600 square feet and supports more than 100,000 student visits per year.

Scholarships

In addition to the scholarships awarded by the University, the College of Business Administration awards a number of scholarships funded by industry, foundations, and individuals. Criteria for awarding these scholarships vary to meet the wishes of the donors but often include financial need, academic performance, major area of study and class standing. Generally, new freshman students with a 3.2 ACT or current students with a 3.7 GPA or higher will receive a scholarship.

Students who have completed a minimum of 12 credit hours at the University as students in the College of Business Administration are eligible to apply for an upperclass scholarship from the College.

CBA Scholarship Application is available online at www.cba.unl.edu/ugrad/scholarships beginning in mid-November and are due March 1. New high school admits are automatically considered upon admission.

Academic Advising

The academic advising responsibilities for students appear in the following section: "Student Responsibilities in Advising." Students are responsible for fulfilling requirements of the curriculum.

Dean's Office for Undergraduate Programs. Students are encouraged to obtain information and advice through the Dean's Office for Undergraduate Programs and will find its staff well trained and easily accessible. The staff includes both professional staff and peer advisers who can provide academic counseling and answer questions on specific degree requirements, transfer credits, prerequisites, changes in major or college, waivers, procedures or policies and, other available campus services, such as career or personal counseling.

Faculty Adviser. Each student in the College is assigned to an individual faculty advisor who shares his or her academic interest. Students should visit with their faculty advisor about their choice of major, electives within their major and career opportunities.

Student Responsibilities in Advising. The University of Nebraska-Lincoln and the College of Business Administration are committed to providing effective academic advising to students as an essential component to their educational experience.

Academic advisers are available to assist in assessing educational goals, planning programs of study, understanding program requirements, and following policies and procedures. Students are ultimately responsible for fulfilling all the requirements of the curriculum in which they are enrolled. Students are also responsible for initiating advising contacts and preparing for advising sessions.

The mentoring relationship between academic advisers and students is confidential and is strengthened by advisers' listening with understanding to student concerns.

Students are expected to take responsibility for a successful university experience and effective advising session. For this to occur the student must:

- Participate in New Student Enrollment, priority registration programs, and any other University/College programs designed to enhance the student experience.
- Review DAR S (Degree Audit Report) each semester and schedule appointments with advisers to review in advance of priority registration and at other times as needed. Keep appointments and be punctual, or call to reschedule if necessary.
- Read the appropriate Undergraduate Bulletin.
- Identify specific questions to address prior to meeting with an adviser and be prepared to do long-term planning.
- Provide honest and accurate information to the adviser of any concerns, questions, special needs, deficiencies or barriers that might affect academic success.
- Follow academic policies and procedures and meet academic calendar deadlines (e.g., registration, fee payment, degree audit, filing for degree, etc.).
- Know and complete program requirements.
- Seek assistance from the various student support services provided by the University and college.
- Immediately notify the University of any change in postal address, email address, and/or phone number.

Honors Program

The purpose of the J.D. Edwards Honors Program in Computer Science and Management is to produce graduates who combine business knowledge and computing fundamentals for enterprise information and software systems. Graduates will be professionals who understand the multiple levels of new information systems, and who become the technology sector's innovators, product developers, entrepreneurs, chief information officers, and CEOs.

The undergraduate program is designed to give students a strong well-rounded education and to give them not only the ability to create information technology applications and solutions but also the capability to understand the implications of information technology for business and society. The program will produce graduates with high technical proficiency as well as a strong sense of the business problems and organizational needs that information systems are intended to serve.

Students interested in learning more about the J.D. Edwards Honors Program are encouraged to call the Program at 472-6000 or visit the Program Web site at jdedwards.unl.edu.

J.D. Edwards requirements differ from those listed in the Curriculum Requirements, section. Students work closely with the program's advisors.

Honors and Awards

Many special awards, established by professional groups, alumni and others interested in the University, are presented annually in recognition of academic excellence and noteworthy achievements in other areas of college life. Awards based on academic excellence include William Gold Keys for first-year students, Clifford M. Hicks for second-year students, and Leo Rossignol Scholarships for third-year students. Information about these and other student honors and awards is available through the Department of Undergraduate Programs.

Dean's List

The Dean's List recognizes undergraduate students who completed 12 or more hours for a grade (excluding hours with P, N, P, N, and I marks) during the semester and have earned a grade point average of 3.5 or higher. A Dean's List is not issued for summer sessions.

All students achieving Dean's List status will have their names published in the newspaper closest to their next of kin address (i.e. Lincoln Journal Star for students living in Lincoln or their next of kin address). They are eligible to list their home town address as the next of kin address. Address changes can be made through the University of Nebraska Information System, located at 107 Centennial Administration Building. No information will be distributed to the media for those students requesting confidentiality of University information.
Degrees with Distinction

High scholarship is recognized at graduation. Undergraduate students are recommended for this honor by the Scholarship, Honors and Awards Committee of the College. To be eligible for consideration by the Committee, undergraduate students must complete 45 credit hours for a letter grade (excluding Pass/No Pass marks) at the University prior to the semester in which they graduate and must have completed 60 such credit hours at the University at the time they graduate. To determine which of the eligible candidates will be recommended for the honor, the Committee uses the cumulative grade point average based on all credit hours taken at the University prior to the beginning of the term in which the student receives his or her degree. A specific cumulative grade point average is required but the honor is limited to approximately ten percent of the graduating class. This usually means a 3.8 (or higher) GPA. Students will be notified of the distinction, high, or highest distinction designation approximately one month before graduation.

Careers

The College of Business Administration provides many opportunities for students who have been prepared by their academic courses for the internship positions. Students who have been prepared by their academic courses for the internship positions receive the first year standing if they meet the entrance requirements explained below. Upper level students receive standing as sophomores, juniors or seniors if they are qualified to continue to take courses in the College if they meet the minimum requirements established for: 1) cumulative grade point average; and 2) progress towards a degree.

A 2.5 cumulative grade point average is required to apply for graduation, as well as a requirement for enrollment in Accounting 201 and 202, Economics 215, Business Law 371 and 372, Finance 361, Management 331, 360, or 475, Management/Management Information Systems or Marketing 350, and Marketing 341. In some instances, a specific grade is required in certain courses to receive course credit. At a minimum, students should consider a minimum 2.5 cumulative grade point average as a general guideline to continue taking courses in the College.

Progress towards a degree assumes students are taking course work in sequential order and according to specific prerequisite, departmental and college requirements. For example, enrollment in most 300-400 level business course work carries a prerequisite of completion of BSAD 150; M odele 1, A rea A and B; M odele 2, A rea A, and M odele 3.

First Year Standing

The College of Business Administration follows the requirements for the first year as follows:

English (4 years) - All units include intensive reading and writing experience.
Math (4 years) - Must include Algebra I, II, and geometry, and one additional unit that builds on a knowledge of algebra or geometry.
Social Studies (3 years) - 0 new unit drawn from American and/or world history; one additional unit drawn from history, American government and/or geography.
Natural Science (3 years) - At least two of the three units selected from biology, chemistry, physics, and earth sciences. One of the units must include laboratory instruction.
Foreign Language (2 years) - Must include two years of the same foreign language. Students who are unable to take two years of foreign language in high school may still qualify for admission. Such students will be required to take two semesters of foreign language at the University of Nebraska. These students are still required to complete 16 units of academic course work for admission.

In addition to meeting the core course requirements for assured admission, you must rank in the upper half of your high school class or have an ACT composite score of 20 or higher, or an SAT total score of 950 or higher. If you do not meet the requirements for assured admission, you should still apply. Your application will receive individual review for demonstration of potential for successful academic work.

A student deficient in any specific entrance requirement of this College should make every effort to remove this deficiency before entering the University. This can generally be accomplished through summer school or through the University of Nebraska-Lincoln Extended Education and in all cases, the Office must be contacted to verify that course work selected after graduation will satisfy the deficiency. Credit is not applicable toward degree requirements for any course considered as a high school deficiency class and not for any skills development courses.

See “Removal of Deficiencies” on page 6 for information regarding completion of required deficiency course work, as well as consequences for failure to remove admission deficiencies within the stated time frame.

For University policy, see “Graduation Requirements” on page 16.

New students should plan their first year of course work very carefully to ensure eligibility for enrollment in sophomore-level courses. This would include completion of enough college credit. New students should also have their communications (ENGL and JGEN), computer, and math requirements completed during the first year.

Math Placement Exam (MPE). Students admitted to the College of Business Administration are required to take a Math Placement Exam prior to enrolling in the college. The results of this examination determine which math course students will enroll in their first semester on campus.

If students lack sufficient high school preparation in math, exam results will indicate a need to enroll in equivalent high school algebra courses, such as MATH 89 (not for college credit) or MATH 100A (may be taken for credit but does not apply toward graduation requirements). These deficiencies should be taken as soon as possible to avoid further sequencing problems. Some students may test to the level of MATH 101 or 103, which serve as necessary college algebra prerequisites for MATH 104 or 106. Both of these prerequisite math courses are for college credit, fulfill elective hours (unless it is taken to fulfill a deficiency), and should be taken early in the program to prepare for the math requirement.

Credit cannot be given for both MATH 104 and 106. Students must determine the appropriate course early in their program. Selecting 104 or 106 or a higher-level math class is based on test results and then is the student’s choice, although 106 or a higher course is necessary for actuarial science and for those students considering graduate school.

Records are checked to verify students are enrolled in the appropriate math course. Students, therefore, must follow the recommendations of the Math Placement Exam. The test can be retaken if students feel they can prepare and improve their performance on the exam. Additional information about the exam can be found on the Web site: www.math.unl.edu.
Special Freshman Enrollment. Freshman students completing 14 hours of UNL credit with a 3.5 GPA will be invited to enroll in ACCT 201 their second semester.

Sophomore Standing
For admission to sophomore standing, a business student must complete the freshman entrance requirements of the College and must earn a minimum of 27 semester credit hours to enroll in courses offered at the 200 level in business with the exception noted above for accounting. Remaining entrance guidelines, as well as specific courses, for GPA and grade restrictions and any other stated prerequisites.

Students from other colleges wishing to enroll in business courses must be in good standing, have sophomore status, and meet the specific core prerequisites to enroll in courses offered by the College.

M odules 0 (101 and 150), 1A (English) and 1B (MATH 104 or 106), 2A (JGEN 120 and CO M M 311) and M odule 3 (accounting and economics) should be done by the end of the sophomore year.

Junior Standing
To achieve junior standing in the College of Business Administration, a student must have earned 53 hours of credit to enroll in any 300/400-level business course with the exception of BLAW 371, F IN A 361, M NGT / M IST 350, and M R K T 341. Refer to the departmental guidelines as well as specific courses for GPA and grade restrictions and any other stated prerequisites. At a minimum, business students will also be expected to have completed: Module 0 (101 and 150); Module 1: Area A and B (English and math); Module 2: Area A (communications); and Module 3 (accounting and economics) prior to enrolling in Module 4, 5, 6, and 8 business course requirements with the exception of BLAW 371 and M NGT / M IST 350. A cumulative 2.5 GPA is required for all Module 4 course work.

To meet these requirements involves planning. For instance, specific course prerequisites for a major may make the foundation and core courses require careful course planning and sequencing beginning in the first year. Questions regarding this process should be addressed to the Dean’s Office for Undergraduate Programs.

Senior Standing
To achieve senior standing, a student must have earned 89 hours of credit. Refer to the departmental guidelines, as well as specific courses, for GPA and grade restrictions and any other stated prerequisites. At a minimum, business students will also be expected to have completed Module 0 (101 and 150); Module 1: Area A and B (English and math); Module 2: Area A (communications); and Module 3 (accounting and economics) prior to enrolling in Module 4, 5, 6, and 8 business course requirements with the exception of BLAW 371 and M NGT / M IST 350. A minimum 2.5 cumulative grade point average is required to apply for graduation. Specific college requirements of B SAD 098 and M NGT 475 must be done in the final semester.

Transfer Students to the College of Business Administration

Students who transfer to the University of Nebraska at Lincoln from other colleges, technical schools or universities must meet the entrance requirements, follow the college curriculum rules and requirements and have a minimum cumulative grade point average of 2.5 to be eligible for enrollment in the College of Business Administration. Students who do not meet this requirement must enroll in another college at the University for the minimum of 27 semester credit hours to meet the minimum cumulative grade point average in the first 12 hours or more of course work taken at UNL. They may then be considered for admission to the College of Business Administration.

University guidelines provide for a maximum of 98 transfer hours from four-year institutions; a minimum of 66 hours from two-year technical schools and foreign institutions. The special sections listed below provide additional restrictions for transfer of courses which may further limit the number of transfer hours.

To ensure a majority of business course work is completed at the University of Nebraska at Lincoln, a maximum of 50% of the business course work requirements may transfer (after departmental evaluation of credit) (M ODULE 3, 4, 5 and 6); and a maximum of 50% of the course work required for the major may transfer (M ODULE 4 and 5). Students may not choose which courses to transfer. All hours are evaluated using the procedure described above and acceptance will be determined by the departments and the Dean’s Office for Undergraduate Programs. Additional course work may be required in the acceptance of a transfer course because of the level of course completed from the transfer institution.

Integrative Studies (IS) requirements for the College and University must be completed at UNL, but will be prorated for transfer students, based upon the number of semester hours of academic credit for the course work completed in the degree program. Please refer to “Transferring Credit Toward Comprehensive Education Requirements” on page 17 for further information regarding the transfer of Integrative Studies (IS) requirements.

In addition, the College of Business Administration does not accept courses for transfer from institutions outside of the University of Nebraska system in which a D or F grade was received (note exceptions below).

Equivalency agreements between the three institutions provide a listing of courses at the community colleges and any other stated prerequisites. Students who desire to transfer credit from these institutions must have each course evaluated by the appropriate department representative. There are agreements with some foreign institutions. In addition to Nebraska colleges, technical schools and foreign institutions. The Curricula Guide at this site also provides a listing of courses at the community colleges that may be taken to fulfill U N L- C B A equivalents.

Transferring from Technical, Non-Accredited, and Foreign Institutions. Students who desire to transfer credit from these institutions must have each course evaluated by the appropriate department representative. There are agreements with some foreign institutions. In addition to Nebraska colleges, technical schools and foreign institutions. The Curricula Guide at this site also provides a listing of courses at the community colleges that may be taken to fulfill U N L-C B A equivalents.

Readmitted Students
Students readmitted to the College of Business Administration who previously left the College in good standing (including a minimum
2.5 cumulative GPA) may return to the College. Students will, however, be required to follow current requirement guidelines of the College. Instructions to request an appeal of this policy are available in the Dean’s Office for Undergraduate Programs.

Students who left the College with a cumulative GPA below 2.5 may not return to the College until they have achieved a minimum 2.5 cumulative GPA at UNL. At that time, they may transfer back to the College, but must meet the requirements of the College enforced at the time of their new entrance to the College of Business Administration. No waivers to follow old curriculum requirements are permitted for students who leave the College with less than a 2.5 cumulative GPA.

International Students

International students seeking admission to the College are required to have a TOEFL Score of 525 (paper-based score) or 193 (computer-based score). Students need to have a mastery of English, determined by the placement test, upon their arrival at UNL. Additional course work may be required.

College Academic Policies

As members of the University academic community, students in the College have certain rights and responsibilities and are bound by the University code of conduct for all students at the University. Information on student rights, responsibilities and code of conduct can be found on page 415 of this Undergraduate Bulletin. In addition to University policies and procedures, the College has a policy of restricted academic enrollment and eligibility for undergraduate students. The requirements are as follows:

1. Students in the College of Business Administration will follow the curriculum requirements enforced at the time of matriculation into the College. Students who drop out of school, or transfer to another college or institution and return at a later point in time, will be required to complete degree requirements at the time they re-enter the College.

2. Students who enter the College of Business Administration must meet all College and specific course prerequisites, to include GPA and grade restrictions, in order to enroll in business courses. At a minimum, business students will also be expected to have completed: Module 0 (101 and 150); Module 1: Area A and B (English and math); Module 2: Area A (communications); and Module 3 (accounting and economics) prior to enrolling in Module 4, 5, 6, and 8 business course requirements with the exception of BLAW 371 and MNGT/ MIST 350. The College may administratively drop students lacking prerequisites.

3. A minimum of 128 semester hours of applicable credit is required to earn the degree. (BSAD 150 and other identified courses such as MATH 100A are not applicable to the 128 hour requirement.) A minimum 2.5 cumulative grade point average is required to enroll in ACCT 201, 202; ECON 215; and all M odule 4 course work.

4. Grades of D or D- are accepted to satisfy requirements for the College of Business Administration unless specific courses and course prerequisites require higher grades (such as accounting classes). Students who receive a grade of D or D-, however, are encouraged to retake the course, as well as retaking courses with grades of C-, as a 2.5 cumulative GPA is necessary in many instances. In addition, grades of D or lower do not transfer from other institutions (except UNO and UNK where a D or D-) transfers with similar accounting restrictions noted). All students, including those retaking a business course to replace the grade, must meet minimum GPA prerequisites.

5. Grades of P in the Pass/No Pass option are generally not allowed in the College of Business Administration. Refer to page 216 for a complete listing of restrictions.

6. Students from other college campuses wishing to enroll in a course offered by the College must meet course prerequisites, including GPA restrictions. In addition, no more than 25 percent of the course work required for their degree may be completed in business courses.

7. Students in the College of Business Administration must earn a minimum of 64 credit hours outside the College.

Academic Load

A maximum of 19 credit hours (including online and independent study courses through Extended Education) may be taken each semester without special permission from the Dean's Office for Undergraduate Programs. A minimum of 12 credit hours must be taken each semester to remain a full-time student.

To complete the requirements for a degree in eight semesters, a student must earn an average of 16 credit hours each semester. Most students need a minimum of two hours of preparation for every hour in class. Therefore, 16 credit hours is equivalent to a 48 hour a week job (16 classroom + 32 preparation).

The student's grade point average. Not all classes, however, can be taken under the Pass/No Pass option because the faculty of the College believes the student should be adequately prepared for the required courses and the Pass/No Pass option would serve no purpose. These rules which apply to all students who plan to either take classes offered by the College of Business Administration or to earn a degree from the College of Business Administration, are discussed below.

1. Any student in any College enrolled at the University of Nebraska-Lincoln may NOT take business courses in the College of Business Administration using a Pass/No Pass option.

2. College of Business Administration students may NOT take course work to satisfy M odules 1, 2, 3, 4, and 5, the International Business Course Requirement (IBC R), Essential Studies nor Integrative Studies using a Pass/No Pass option.

3. Students majoring in actuarial science through the College of Business Administration may NOT take any math, actuarial science, or required courses using the Pass/No Pass option.

4. Students may apply no more than 9 hours of elective credit using the Pass/No Pass option.

5. Students who are taking courses to fulfill the requirements of a minor in an area of study outside the College of Business Administration are subject to CBA rules restricting use of the Pass/No Pass option if courses in their minor are used to meet their Module 1 and 2 or any college-specific requirements.

6. Students seeking any minor outside the College should verify rules applying to Pass/No Pass options with the advisor for their minor additional restrictions may apply and they often vary.

7. Students from UNO/UNK/UNMC and from other institutions are subject to the same restrictions listed here of UNL students.

Credit by Examination

Credit by examination is generally not available for courses offered by the College of Business Administration, with the exceptions noted in the paragraphs which follow. Students who feel substantial work experience should satisfy course requirements may approach the appropriate school or department for possible credit by exam options. Credit, however, is not simply given for work experience.

Credit by Examination is offered several times each year for BSAD 150. For information, please see the BSAD 150 Web site at www.cba.unl.edu.

The College Level Examination Program (CLEP) is available for students who are considering transfer to Business Administration. No exams may be taken under the CLEP option because the faculty of the College believes the student should be adequately prepared for the required courses and the CLEP option would serve no purpose. These rules apply to all students who plan to either take classes offered by the College of Business Administration or to earn a degree from the College of Business Administration using a Pass/No Pass option.
1. Advanced Placement grades of P and Credit grade point average to file an application for diploma must have a minimum 2.5 cumulative
to determine eligibility to request an appeal of

3. Students who travel abroad and return with "credit" rather than grades from the institution where they studied may use P grades to fulfill degree requirements. These hours will not count as part of the 9-hour-maximum hours permitted.

4. Students who wish to withdraw from a course after the deadline, as well as any late withdrawal requests, must be made within a reasonable time frame. Any exceptions to the rules are made as

Grade/ Late Withdrawal Appeals
Students who believe they have received an unfair grade may take the following sequential actions to appeal a grade:
1. The student must discuss the situation with the instructor involved.
2. If no acceptable solution is reached, the student may file a written grade appeal with the Grade Appeal Committee of the specific department or school in the College within the first 20 days of the academic semester following receipt of the course grade. In making his or her appeal, the student must allege that the guarantees contained in Section II, Part B, of the Student in the

Degree Programs and Areas of Study

The College offers majors in the areas of accounting, actuarial science, agribusiness, business administration, economics, finance, international business, management, and marketing. The programs in actuarial science and economics are also available through the College of Arts and Sciences and the College of Agricultural Sciences. A major in Elementary Education also offers the agribusiness major. In each of these instances, requirements differ between colleges. Students should consult the College of Business Administration. Students should consult with an advisor in this College to determine eligibility to request an appeal of the faculty as represented by the Academic Planning Committee.

Graduation Requirements
Each student who expects to receive a diploma must have a minimum 2.5 cumulative grade point average to file an application for degree candidacy. To be prepared for an on-time graduation, students should continue to monitor their progress through DAR S, which is a personalized degree audit that can be accessed through WAM. The application for the degree is filed with the Office of Registration and Records, 109 Canfield Administration Building.

DEADLINES ARE EARLY IN THE SEMESTER.

Students are responsible for informing the Office of Registration and Records of the manner in which they are completing their requirements (i.e., by independent study, clearance of incomplete enrollments at another institution, special examinations, etc.) and of any revision of such plans. In addition, any change in address, email, or phone number should be specifically directed to this office (and updated through the Roll or WAM procedures) to avoid a postponement of graduation until a later semester.

Majors/ Double Majors

The College offers majors in the areas of accounting, actuarial science, agribusiness, business administration, economics, finance, international business, management, and marketing. The programs in actuarial science and economics are also available through the College of Arts and Sciences and the College of Agricultural Sciences. A major in Elementary Education also offers the agribusiness major. In each of these instances, requirements differ between colleges. Students should consult the College of Business Administration. Students should consult with an advisor in this College to determine eligibility to request an appeal of the faculty as represented by the Academic Planning Committee.

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Each student who expects to receive a diploma must have a minimum 2.5 cumulative grade point average to file an application for degree candidacy. To be prepared for an on-time graduation, students should continue to monitor their progress through DAR S, which is a personalized degree audit that can be accessed through WAM. The application for the degree is filed with the Office of Registration and Records, 109 Canfield Administration Building.

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Degree Programs and Areas of Study

Students graduating from the College will be awarded a bachelor of science degree in business administration (BSBA). While enrolled, students will select a major area of study. Dual degree and dual major opportunities are also available for those students who wish to expand their areas of interest. Although not required, minors, options, and emphases are also available, as is the opportunity to obtain a secondary teaching certificate. All of these options are described in the following section.

Majors/ Double Majors

The College offers majors in the areas of accounting, actuarial science, agribusiness, business administration, economics, finance, international business, management, and marketing. The programs in actuarial science and economics are also available through the College of Arts and Sciences and the College of Agricultural Sciences. A major in Elementary Education also offers the agribusiness major. In each of these instances, requirements differ between colleges. Students should consult the College of Business Administration. Students should consult with an advisor in this College to determine eligibility to request an appeal of the faculty as represented by the Academic Planning Committee.

Graduation Requirements
Each student who expects to receive a diploma must have a minimum 2.5 cumulative grade point average to file an application for
Other Options. In addition to the above minors, a military science minor is available through the Military Science Department and a criminal justice minor is available. Students should contact the CBA Advising Office, 138 CBA, to determine the requirements.

Minors Within the College

The College of Business Administration offers the following business minors to business students only (non-business students should contact their college adviser to determine minor availability). Business coursework used for any of these minors cannot be double counted toward business degree requirements (with the exception of business electives), major or minor requirements. Business students choosing to minor in economics must follow the CBA economics minor requirement.

Business students pursuing a business minor may also pursue a Plan A or Plan B minor (if available) from the list under “Minors Outside the College” on page 217.

Other Emphases/Tracks

In addition to the required major and the option to complete a minor (or minors), management majors can emphasize areas of concentration in human resources, entrepreneurship, strategic management, or systems and operations management. In addition, marketing majors can pursue tracks in marketing design or advertising. Requirements for each of these options are described in their respective major section. It should be noted that unlike the major and minor, recognition of completion of these emphasis/track does not appear on the student’s transcript.

Dual Degrees

Students may obtain a dual degree by simultaneously enrolling in and completing requirements in the College of Business Administration and another college on campus. Students will need to consult with both colleges to ensure all requirements are satisfied.

Secondary Teaching Certificate

Every graduate of the College of Business Administration has many hours which could be applied to a secondary teaching certificate. With careful planning, students may integrate the requirements for the certificate with those for graduation from the College of Business Administration.

Students interested in obtaining a teaching certificate should contact the director of the College of Education and Human Sciences, Student Services Center, 105 Henzlik Hall, for details.

Curriculum Requirements

Once admitted and enrolled in the College of Business Administration, students are able to access DAR S, a Degree Audit Report on the Web through WAM (What About Me). This computerized degree audit outlines the college curriculum requirements. DAR S does not replace the policies and procedures described in this Undergraduate Bulletin, but it will serve as a useful tool in monitoring degree requirements, policies, and procedures. Each section of the DAR S is outlined below. Refer to this section of the Undergraduate Bulletin when reviewing your DAR S. The two documents serve as valuable advising resources for planning your program of studies. It also outlines requirements according to your intended major. If you decide to change majors, be sure to visit CBA 138 to declare the change to reflect on your DAR S.

College Entrance Requirements

The college entrance requirements are the same as the University which are described on page 214. This section of the DAR S should have the notations of “OK” and/or “+” to indicate the fulfillment of deficiency requirements. If “NO” or “-” appears you will want to visit with your adviser to determine immediate course sequencing needs to fulfill appropriate deficiencies.

Courses Which Do Not Count Toward Graduation

Any skills-based courses, such as LIBR 110 and BSAD 150, will not be counted toward graduation. Requirements No credit for graduation is allowed for high school deficiency courses (such as MATH 95C and MATH 100A), or for any course designated by the College of Business Administration as not applicable toward degree requirements. College-level courses taken to satisfy an admission deficiency do not count for credit toward the program. Examples of additional restrictions include duplication of credit, grade of D or D- from other institutions, and any restrictions noted specifically by departments. An example would be credit not permitted for both MATH 104 and 106; nor HIST/PO LS 105 and HIST 201, 202; nor POLS 100. If transfer credit, at least 50% of business credit hours and 50% of major must be done at U N L. A maximum of 9 hours of Pass/No Pass credit may be used only in electives.

Notations on your DAR S will alert you to any concerns regarding courses which do not count toward graduation.

Community College Transfer Credit-66 hour limit

This section of DAR S will appear only if transferring credit from a community college. As described in the Transfer Student Section (page 215), a maximum of 66 hours may transfer from a community college. Any restrictions regarding acceptance of hours beyond this are outlined on the DAR S and additional hours may be required for the degree.

General Graduation Requirements

Refer to your DAR S for notations regarding requirements. For example, a minimum 2.5 cumulative GPA is required to apply for the degree. Other requirements are outlined in previous sections.

A minimum of 30 of the last 36 hours of credit needed for the degree must be registered for and completed in residence at the University of Nebraska-Lincoln. Courses offered through the College Independent Study Option (Extended Education) and summer reading courses count against residency.

A maximum of 9 hours of Pass/No Pass credit is allowed in electives. Restrictions and enrollment for this credit is described on page 216.

A minimum of 128 hours of applicable credit is required for the degree. On DAR S, this number needs to be compared with the rest of the DAR S to ensure all modules are completed not just necessarily the number of hours.

Comprehensive Education—Integrative Studies [IS]

The University requires a set of comprehensive education requirements, which includes Integrative Studies. Integrative Studies, often referred to as IS credit, must be completed as part of the degree requirements for the College of Business Administration.

This section of your DAR S will note those courses you have completed or are enrolled in that fulfill the IS requirement, as well as the number of courses still needed to meet this requirement.

Additional notes of importance regarding IS requirements:
1. All IS requirements must be taken for a grade (no Pass/No Pass option).
2. Ten courses are required unless transferring from another institution.
3. No More Than Three courses can be taken from ONE department with the exception of MGT where MGT/MIST 350 and 475 may count for IS credit as well as an additional 3 other IS management courses.
4. One IS course must be taken at each of the 200 and 300 and 400 level. If planned appropriately with course work taken at UNL, CMM 311, MGT/MIST 350, and MGT 475 will fulfill this requirement.
5. In sequencing these classes, plan to take a Minimum of one to two courses per semester for the first 8 IS courses. After these, scheduling will depend on credit needed for the degree.
6. If planned appropriately, most students will take IS requirements as part of their other requirements, particularly in M odules 1 and 2 as Essential Studies.
7. A business, actuarial science, and international business students should plan these courses VERY carefully and EARLY in the program to avoid graduation delays.
8. Approved IS course work, as well as policies regarding this credit, are outlined on page 17 and the listing of course options begin on page 388 of this bulletin. Students may also refer to the ESA Advising Tool at www.unl.edu or through Blackboard for the same listing.
9. Course work completed prior to Fall, 1995 does not count for IS credit; however, required hours will be prorated according to hours completed at that time.
10. Hours for transfer students from other institutions will also be prorated as outlined on page 17 of this Undergraduate Bulletin.

Module 0. Information, Discovery, and Retrieval

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD 101</td>
<td>1 hr</td>
</tr>
<tr>
<td>BSAD 150</td>
<td>1 hr</td>
</tr>
<tr>
<td>BSAD 098</td>
<td>0 hr</td>
</tr>
</tbody>
</table>

BSAD 150: Take this during your first semester. BSAD 150 is a required basic-skills computer course, and it is designed to make sure that every CBA student knows how to use Access, Microsoft Word, PowerPoint, and especially Excel well enough to complete assignments in future CBA courses. Offered as a one-credit-hour course, this hour does not apply to the degree. During class sessions, students will complete group projects and take group tests. Attendance virtually guarantees a pass for the course.

A advanced computer applications students may wish to attempt the Credit by Exam option instead. In addition, agreements with some area schools allow for a waiver. Refer to the BSAD 150 web site for additional information: www.cba.unl.edu under Business Administration.

BSAD 101: Take during your first semester. BSAD 101 Business Leadership Development is required of all new freshmen. This course is an active exploration, examination, and pursuit of fundamental concepts and principles of leadership development and how they relate to all fields within business administration. Also covered is a broad orientation to all domains of business administration, including activities, assignments, and exercises. BSAD 101 is waived for Chancellors Leadership, JDEP, and transfer students who have completed 27 hours.

BSAD 098: Take during your final semester. BSAD 098 is a 0 credit-hour seminar that is designed to assess students' learning over the past four years of the program. Students will be required to register for the course and pass it (with set minimum scores) during their last semester in school. JDEP Students will take only BSAD 098.

Module 1—Comprehensive Education—Essential Studies [ES] (27-29 credit hours)

All course work for Module 1 must be taken for a grade (no Pass/No Pass).

Designed to develop the students' understanding of the society in which business operates and to assist students in becoming responsible members of society, Module 1 course work provides students with an understanding of the breadth of human endeavor.

Your DARS will reflect courses completed that fulfill this requirement (noted with an "X") and a "-" to note those areas in which you still need to complete a course.

AREA A. Communications (choose one)

Take your first or second semester as a freshman. (See Module 2, Area A (Communications) for a first semester alternative.)

ELNG 101 Writting from Literature
ELNG 103H. Honors Writting from Literature
ELNG 150 Writting: Rhetoric as Inquiry
ELNG 150H. Honors Writting: Rhetoric as Inquiry
ELNG 151 Writting: Rhetoric as Argument
ELNG 151H. Honors Writting: Rhetoric as Argument

AREA B. Mathematics and Statistics (choose one)

Take your first or second semester as a freshman. (See Module 2, Area A (Communications) for a first semester alternative.)

MATH 104 Calculus for Managerial & Social Sciences
MATH 106 Analytical Geometry & Calculus I
MATH 106H. Honors Analytical Geometry & Calculus I
MATH 107 Analytical Geometry & Calculus II
MATH 107H. Honors Analytical Geometry & Calculus II
MATH 108. Honors Accelerated Calculus II
MATH 109H. Honors Accelerated Calculus II

The results of your Math Placement Examination will determine which course you are eligible to enroll in. You may be required to take prerequisite courses (95c, 100A, 101, and/or 103) to enroll in the required math course. A curricular science and/or one (or more) majors must take MATH 106 for Area B.

JDEP Edwards students fulfill their communication requirements through JDEP courses.

AREA C, D, E, F, G, and H. Essential Studies

Take during your first or second year at UNL. Generally freshman students will take one, two, or three of these (in no specific order) during the first semester and follow with the remainder and M odule 2 courses the second semester and second year.

Area C: Human Behavior, Culture & Social Organization
Area D: Science & Technology
Area E: Historical Studies
Area F: Humanities
Area G: Arts
Area H: Race, Ethnicity & Gender

For Area D, actuarial science majors must take C008 105: agribusiness majors must take BIO 101 and 101L.

Additional notes of importance regarding Module 1:
1. Other than Area A and B that note specific courses to be taken for CBA, a listing of course work that may be used to fulfill Module 1 appears in the next section; or you can refer to the list beginning on page 377; or from the Essential Studies tool on the CBA website at www.cba.unl.edu; or through your advising organization on Blackboard.
2. Knowing that you will most likely need 10 Integrative Studies (IS) courses, you should select one to two ES courses for Module 1 and 2 that also fulfill IS requirements. IS courses are listed in BOLD on the following list; or are noted with a "dot" on the list beginning on page 377 and an alphabetical listing beginning on page 388. Special notations appear on the website as well. Actuarial science and agribusiness majors should plan IS courses very carefully in Module 1 and 2 because few options exist in other modules.
3. Students must complete ONE course from each area, with the exception of area C in which two courses must be completed.
4. All course work must be taken for a grade (no Pass/No Pass).
5. No BUSIN ESS course may be selected to fulfill an Essential Studies requirement.
6. While an ES course may encompass more than a single area of knowledge, it CANNOT simultaneously fulfill an ES requirement for two areas.
7. A minimum of 27 hours must be completed in Module 1. Additional completed hours will transfer to Module 2 or 3, if needed, and will be designated with an "S" on DARS to note the split.
8. NO E Electives from Module 1 and 2 must be completed at the 300 and/or 400 level. Students should plan carefully for the completion of this requirement their sophomore or junior year. (COM 311 in Module 1 and 2 may serve as one of the 3 hours.)
9. For honors students, any honors sections of these courses (designated with the letter "H" behind the course number) may be taken to fulfill the requirements.
10. Actuarial science and agribusiness majors should refer to the section for your major to review exceptions or options for Module 1 requirements.

Freshman Sophomore Sequencing: If you intend to stay on a sequence schedule that allows you to maximize enrollment potential for the sophomore year, it is EXPECTED that BSAD 101, 150, ENGL and JGEN, and MATH will be DONE as a freshman and COM 311 as a sophomore. In addition, most other M odule 1 and 2 courses should be done by the end of the sophomore year.

Do not forget to check on IS progress at this point.

A listing of courses to fulfill Area C, D, E, F, G, and H appears as follows, with the BOLD designating those classes that fulfill IS (Integrative Studies).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYAF 333</td>
<td>Families in the Economy (3 cr)</td>
</tr>
<tr>
<td>CYAF 381</td>
<td>Family Intervention &amp; Field Work (3 cr)</td>
</tr>
<tr>
<td>CYAF 488</td>
<td>Child &amp; Family Policy (3 cr)</td>
</tr>
<tr>
<td>EDPS 189H</td>
<td>Honors How to Learn &amp; Develop Talent (3 cr)</td>
</tr>
<tr>
<td>EDFP 209</td>
<td>Strategies for Academic Success (3 cr)</td>
</tr>
<tr>
<td>EDUC 131</td>
<td>Foundations of Modern Education (3 cr)</td>
</tr>
<tr>
<td>ENGL 220</td>
<td>Intro to Linguistic Principles (3 cr)</td>
</tr>
<tr>
<td>ENGL 322B</td>
<td>Linguistics &amp; Society (3 cr)</td>
</tr>
<tr>
<td>ETHN 189H</td>
<td>University Honors Seminar (3 cr)</td>
</tr>
<tr>
<td>ETHN 200</td>
<td>Intro to African American Studies (3 cr)</td>
</tr>
<tr>
<td>ETHN 201</td>
<td>Intro to Native American Studies (3 cr)</td>
</tr>
<tr>
<td>ETHN 211</td>
<td>Intercultural Communication (COMM 211) (3 cr)</td>
</tr>
<tr>
<td>ETHN 212</td>
<td>Intro to Cultural Anthropology (ANTH 212) (3 cr)</td>
</tr>
<tr>
<td>ETHN 260</td>
<td>Peoples of the Great Plains (3 cr)</td>
</tr>
<tr>
<td>ETHN 290</td>
<td>The Geographical Background to Global Affairs (3 cr)</td>
</tr>
<tr>
<td>ETHN 330</td>
<td>Multicultural Education (TEAC 330) (3 cr)</td>
</tr>
<tr>
<td>ETHN 351</td>
<td>Indigenous Peoples of North America (ANTH 351) (3 cr)</td>
</tr>
<tr>
<td>ETHN 352</td>
<td>Indigenous Peoples of the Great Plains (ETHN 352) (3 cr)</td>
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<td>ETHN 353</td>
<td>Anthropology of War (3 cr)</td>
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<td>ETHN 362</td>
<td>Peoples &amp; Cultures of Africa (ETHN 362) (3 cr)</td>
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<tr>
<td>ETHN 366</td>
<td>Peoples &amp; Cultures of East Asia (3 cr)</td>
</tr>
<tr>
<td>ATH 297</td>
<td>Coaching Effectiveness &amp; Psychological Components of Sports Performance (3 cr)</td>
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<tr>
<td>BIO 203</td>
<td>Biostats (3 cr)</td>
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<tr>
<td>BR DC 226</td>
<td>Intro to Broadcasting (COMM 226) (3 cr)</td>
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<tr>
<td>BR DC 465</td>
<td>International Broadcasting (3 cr)</td>
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<td>CEHS 200</td>
<td>Families, Schools &amp; Communities (3 cr)</td>
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<tr>
<td>CLAS 252</td>
<td>Archaeology of World Civilizations (CLAS 252) (3 cr)</td>
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<tr>
<td>COMM 189H</td>
<td>University Honors Seminar (3 cr)</td>
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<td>COMM 210</td>
<td>Small Group Problem Solving (3 cr)</td>
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<td>COMM 211</td>
<td>Intercultural Communication (ETHN 211) (3 cr)</td>
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<td>COMM 220</td>
<td>Communication &amp; Popular Culture (3 cr)</td>
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<td>COMM 280</td>
<td>Communication &amp; Popular Culture (3 cr)</td>
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<tr>
<td>COMM 288</td>
<td>Communication &amp; Popular Culture (3 cr)</td>
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<td>MUNM 301</td>
<td>Music &amp; Sports Performance Perception (3 cr)</td>
</tr>
<tr>
<td>MUNM 450</td>
<td>American Cultural Perspectives Through Popular Music &amp; Guitar (TEAC/MUNM 450) (3 cr)</td>
</tr>
<tr>
<td>PHIL 216</td>
<td>Intro to Psychology &amp; Philosophy (PSYC 216) (3 cr)</td>
</tr>
<tr>
<td>PSYC 181</td>
<td>Intro to Psychology (3 cr)</td>
</tr>
<tr>
<td>PSYC 181H</td>
<td>Honors Intro to Psychology (3 cr)</td>
</tr>
<tr>
<td>PSYC 216</td>
<td>Intro to Psychology &amp; Philosophy (PHIL 216) (3 cr)</td>
</tr>
<tr>
<td>SOCI 101</td>
<td>Intro to Sociology (3 cr)</td>
</tr>
<tr>
<td>SOCI 182</td>
<td>Alpha Learning Community Freshman Seminar (3 cr)</td>
</tr>
<tr>
<td>SOCI 183</td>
<td>Alpha Learning Community Freshman Seminar (3 cr)</td>
</tr>
<tr>
<td>SOCI 209</td>
<td>Human Behavioral, Cultural, &amp; Social Organizations (3 cr)</td>
</tr>
</tbody>
</table>
PRNT 242. Beginning Printmaking II (3 cr)
SCLP 211. Beginning Sculpture I (3 cr)
SCLP 212. Beginning Sculpture II (3 cr)
TEAC 450. American Cultural Perspectives through Popular Music & Guitar (MUED/ MUNM 450) (3 cr)
THEA 112G (112H). Intro to Theatre (3 cr)
THEA 114. Basic Acting I (3 cr)
THEA 201. Technical Theatre Practice (3 cr)
THEA 225. Scripts in Performance (3 cr)
THEA 331. Intro to Playwriting (3 cr)
THEA 335. History of Theatre I (3 cr)
THEA 336. History of Theatre II (3 cr)
THEA 388. Arts of the 20th Century: 1900-1945
(AHIS/UMUN 388) (3 cr)
THEA 389. Arts of the 20th Century: 1945-Present
(AHIS/UMUN 389) (3 cr)
THEA 440. Continental Drama (3 cr)
THEA 472. Theatre Perspectives (3 cr)
THEA 480. Technological Innovation in Film Production (3 cr)
THEA 121. Design Essentials (3 cr)
T XCD 121. Design Essentials (3 cr)
T XCD 225. Surface Design on Textiles (3 cr)
T XCD 325. Woven & Nonwoven Textile Design (3 cr)
WATC 257. Beginning Watercolor (3 cr)

AREA H. Race, Ethnicity and Gender
Business students must complete a minimum of 3 hours of credit from the following list of Essential Studies. Area H courses:

AHIS 366. African Architecture (ARCH/ETHN 347) (3 cr)
ANTH 212. Intro to Cultural Anthropology (ETHN 212) (3 cr)
ANTH 252. Archaeology of World Civilizations (ANTH 252) (3 cr)
ANTH 351. Indigenous Peoples of North America (ETHN 351) (3 cr)
ANTH 352. Indigenous Peoples of the Great Plains (ETHN 352) (3 cr)
ANTH 362. Peoples & Cultures of Africa (ETHN 362) (3 cr)
ANTH 366. Peoples & Cultures of East Asia (3 cr)
ARCH 347. African Architecture (AHIS/ETHN 347) (3 cr)

CLAS 182. Alpha Learning Community Freshman Seminar (3 cr)
CLAS 183. Heros, Harlots & Helots (3 cr)
CLAS 212. Archaeology of World Civilizations (ANTH 252) (3 cr)

COMM 211. Intercultural Communication (ETHN 211) (3 cr)
COMM 380. Gender & Communication (3 cr)
CZEC 301. Representational Authors I (3 cr)
CZEC 302. Representational Authors II (3 cr)
ENGL 212. Intro to Lesbian & Gay Literature (3 cr)
ENGL 215E. Intro to Women's Literature (3 cr)
ENGL 215J. Twentieth-Century Women Writers (3 cr)
ENGL 232. The Jewish Idea in Modern Literature (M ODL 232) (3 cr)
ENGL 239B. Women Filmmakers (3 cr)
ENGL 243B. Literature of India (3 cr)
ENGL 244. African American Literature (ETHN 244) (3 cr)
ENGL 244A. Intro to African Literature (ETHN 244A) (3 cr)
ENGL 244B. Black Women Authors (ETHN 244B) (3 cr)
ENGL 244D. African-Caribbean Literature (ETHN 244D) (3 cr)
ENGL 244E. Early African American Literature (ETHN 244E) (3 cr)
ENGL 245A. Intro to Asian American Literature & Culture (ETHN 245A) (3 cr)
ENGL 245B. Native American Literature (ETHN 245B) (3 cr)
ENGL 245D. Chicana and/or Chicano Literature (ETHN 245D) (3 cr)
ENGL 245F. Jewish-American Fiction (JUDS 245F) (3 cr)
ENGL 245N. Native American Women Writers (3 cr)
ENGL 253A. Writing of Poetry: Women's Poetry (3 cr)
ENGL 315A. Survey of Women's Literature (3 cr)
ENGL 315B. Women in Popular Culture (3 cr)
ENGL 410. Studies in Literary Movements (ETHN 100. Freshman Seminar-The M inority Experience (3 cr)
ETHN 150. African Culture & Civilization (HIST 150) (3 cr)
ETHN 171. Latin American Culture & Civilization (HIST 171) (3 cr)
ETHN 189H. University Honors Seminar (3 cr)
ETHN 200. Intro to African American Studies (3 cr)
ETHN 201. Intro to Native American Studies (3 cr)
ETHN 211. Intercultural Communication (COMM 211) (3 cr)
ETHN 212. Intro to Cultural Anthropology (ANTH 212) (3 cr)
ETHN 217. Nationality & Race Relations (SOC 217) (3 cr)
ETHN 218. Chicanos in American Society (SOC 218) (3 cr)
ETHN 238. Blacks & the American Political System (POLS 238) (3 cr)
ETHN 241. Native American History (HIST 241) (3 cr)
ETHN 242. Native American Women (HIST, WMNS 242) (3 cr)
ETHN 244. African American Literature (ENGL 244) (3 cr)
ETHN 244A. Intro to African Literature (ENGL 244A) (3 cr)
ETHN 244B. Black Women Authors (ENGL 244B) (3 cr)
ETHN 244D. African-Caribbean Literature (ENGL 244D) (3 cr)
ETHN 244E. Early African American Literature (ENGL 244E) (3 cr)
ETHN 245A. Intro to Asian American Literature & Culture (ENGL 245A) (3 cr)
ETHN 245B. Native American Literature (ENGL 245B) (3 cr)
ETHN 245D. Chicana and/ or Chicano Literature (ENGL 245D) (3 cr)
ETHN 306. African American History:African Origins to 1877 (HIST 306) (3 cr)
ETHN 309. African American History: After 1877 (ETHN 309) (3 cr)
ETHN 329. Women in European History (WMNS 329) (3 cr)
ETHN 332. Jews in the Middle Ages (JUDS/R ELG 332) (3 cr)
ETHN 333. Jews in the Modern World (JUDS 333) (3 cr)
ETHN 339. The Holocaust (3 cr)
ETHN 356. Race & Ethnicity in the American West (ETHN 356) (3 cr)
ETHN 357. The History & Culture of the Mexican-American (ETHN 357) (3 cr)
ETHN 370. Colonial M exico (ETHN 370) (3 cr)
ETHN 371. M odern Mexico (ETHN 371) (3 cr)
ETHN 372. R evolutions in Twentieth-Century Latin America (3 cr)
ETHN 381. History of Premodern Japan (3 cr)
ETHN 382. History of Modern Japan (3 cr)
ETHN 383. History of Premodern China (3 cr)
ETHN 485. Africa Since 1800 (ETHN 485) (3 cr)
ETHN 486. History of South Africa (ETHN 486) (3 cr)
HUM S 465. International Perspectives of Human Resources & Family Sciences (3 cr)
JUDS 177. The Holocaust in Literature & Film (MOD 177) (3 cr)
JUDS 209. Judaism & Christianity in Conflict & Co-existence (R ELG 209) (3 cr)
JUDS 217. Israel: The Holy Land (R ELG 217) (3 cr)
JUDS 219. Intro to Jewish History (R ELG 219) (3 cr)
JUDS 245. Jewish-American Fiction (ENGL 245) (3 cr)
JUDS 332. Jews in the Middle Ages (HIST/R ELG 332) (3 cr)
JUDS 333. Jews in the Modern World (HIST 333) (3 cr)
JUDS 334. Jews, Christians & the Bible (R ELG 334) (3 cr)
JUDS 340. Women in the Biblical World (REL G 340) (3 cr)
JUDS 350. Literature of Judaism (3 cr)
LAMS 331. Latin American Civilization (SPAN 331) (3 cr)
MOD 177. The Holocaust in Literature & Film (JUDS 177) (3 cr)
WMNS 281. Challenges to the State (POLS 281) (3 cr)

WMNS 370H. Honors: Women Making Music (MUSIC 370H) (3 cr)

MUSIC 280. World of Music (MUNM 280) (3 cr)

MUSIC 370H. Honors: Women Making Music (MUNM 370H) (3 cr)

NUTR 253. Cultural Aspects of Food & Nutrition (3 cr)

PHIL 218. Philosophy of Feminism (WMNS 218) (3 cr)

POL S 171. Intro to East Asian Civilization (HIST 181) (3 cr)

POL S 238. Blacks & the American Political System (ETHN 238) (3 cr)

POL S 272. Non-Western Politics (3 cr)

POL S 274. Developmental Politics in East Asia (3 cr)

POL S 277. Latin America Politics (3 cr)

POL S 281. Challenges to the State (POL S 281) (3 cr)

POL S 338. Women & Politics (3 cr)

PSY C 310. Psychology of Immigration (ETHN 310) (3 cr)

PSY C 421. Psychology of Gender (3 cr)

REL G 181. Judaism, Christianity & Islam (3 cr)

REL G 183. Alpha Learning Community Freshman Seminar (3 cr)

REL G 184. Alpha Learning Community Freshman Seminar (3 cr)

REL G 209. Judaism & Christianity in Conflict & Coexistence (JUDS 209) (3 cr)

REL G 217. Israel: The Holy Land (HIST/JUDS 217) (3 cr)

REL G 219. Intro to Jewish History (HIST/JUDS 219) (3 cr)

REL G 332. Jews in the Middle Ages (HIST/JUDS 332) (3 cr)

REL G 334. Jews, Christians & the Bible (JUDS 334) (3 cr)

REL G 340. Women in the Biblical World (JUDS 340) (3 cr)

SOCI 182. Alpha Learning Community Freshman Seminar (3 cr)

SOCI 183. Alpha Learning Community Freshman Seminar (3 cr)

SOCI 189H. University Honors Seminar (3 cr)

SOCI 200. Women in Contemporary Society (3 cr)

SOCI 217. Nationality & Race Relations (ETHN 217) (3 cr)

SOCI 218. Chicano in American Society (ETHN 218) (3 cr)

SOCI 448. Family Diversity (ETHN 448) (3 cr)

SOCI 460. Education & Society (3 cr)

SPAN 264. Spanish-American Literature in Translation I (1-24 cr)

SPAN 265. Spanish-American Literature in Translation II (1-24 cr)

SPAN 331. Latin American Civilization (LAMS 331) (3 cr)

TEAC 330. Multicultural Education (ETHN 330) (3 cr)

TXCD 123. Clothing & Human Behavior (3 cr)

TXCD 124H. Honors Clothing & Human Behavior (3 cr)

WMNS 101. Intro to Women's Studies (3 cr)

WMNS 189H. University Honors Seminar (3 cr)

WMNS 201. Intro to Lesbian, Gay, Bisexual Transgender Studies (3 cr)

WMNS 218. Philosophy of Feminism (PHIL 218) (3 cr)

WMNS 242. Native American Women (ETHN, HIST 242) (3 cr)

WMNS 281. Challenges to the State (POL S 281) (3 cr)

WMNS 329. Women in European History (HIST 329) (3 cr)

WMNS 385. Women, Gender and Science (3 cr)

Module 2—Comprehensive Education—Additional Essential Studies [ES] (21 credit hours)

To ensure students receive a substantial learning experience that encompasses a broad perspective of general education, additional Essential Studies courses are required for business administration students.

Area A: JGEN 120 3 hrs

Area A: COMM 311 3 hrs

Area B or D 3 hrs

Area C, E, F, G or H 3 hrs

Area C, E, F, G or H 3 hrs

Area C, E, F, G or H 3 hrs

Your DAR S will reflect courses completed that fulfill this requirement (noted with an "O K" or "U") and a "X" to note those areas in which you still need to complete a course.

Area A. Communications

JGEN 120. Basic Business Communications

Take your first or second semester as a freshman.

JGEN 120 is a business writing course. Given the writing component of Area A for M od 1 and 2, students will usually take the ENGL requirement for M od 1 one semester and JGEN 120 the other semester. It makes no difference which one is taken first.

COMM 311. Business & Professional Communications

Take during your second or third year.

Sophomore status is a prerequisite for this oral business speaking class.

JDE students fulfill their communication requirements with JDEP course work.

Area B or D. Mathematics/Statistics or Science/Technology

Refer to the M od 1 listing of courses for Area B and D options. Most students will select an Area D (science), simply because Area B options (other than PHIL 211 or TXCD 313) require math above the 106 level (107, 108, 208). Those interested in math, however, are encouraged to continue the calculus sequence, creating an option for a math minor.

Actuarial science majors must take MATH 107 for M od 2 Area B or D; and JDE students will take JDEP 184H.

Area C, E, F, G and H. Additional Essential Studies

Take during your first, second or third year at UNL.

Freshmen students might take one or two of these (in no specific order) during the first year, but most will be taken as a sophomore or junior. Remembering, between M od 1 and 2, 9 hours must be taken at the 300 or 400 level.

Additional notes of importance regarding M odule 2:

1. Other than Area A that notes specific courses to be taken for CBA, a listing of course work that may be used to fulfill M od 1 appeared in the previous listing; or you can refer to the list beginning on page 377 of the Essential Studies tool on the CBA website at www.cba.unl.edu.

2. Remembering that you will need Integrative Studies (IS) requirements, you should select one to two IS courses for M od 1 and 2 options exist in other modules.

3. All course work must be taken for a grade (no Pass/No Pass).

4. No BU SIN ESS course may be selected to fulfill an Essential Studies requirement.

5. While an ES course may encompass more than a single area of knowledge, it CANNOT simultaneously fulfill an ES requirement for two areas.

6. A minimum of 21 hours must be completed in M od 2. Additional hours will apply to M od 1 if necessary and will be designated with an "S" on DARS to note the split.

7. NINE hours from M od 1 and 2 must be completed at the 300 and/or 400 level.

8. Students should plan carefully for the completion of this requirement their sophomore or junior year. COMM 311 (which is also 15) courses may be used to fulfill 3 hours of this requirement.

9. Actuarial science and agribusiness majors should refer to the section for your major to review exceptions or options for M od 1 requirements.

10. For honors students, any honors sections of these courses (designated with the letter "H" behind the course number) may be taken to fulfill the requirements.

11. Both actuarial science and agribusiness majors should attempt to fulfill IS requirements in M odules 1 and 2 because few options exist in other modules.

12. Freshman Sophomore Sequencing: If you intend to stay on a sequence schedule that allows you to maximize enrollment potential for the sophomore year, it is EXPECTED that BSAD 101, 150, ENGL and JGEN, and MATH will be D ONE as a freshman.

Module 3—Business Administration Foundation (15 credit hours)

All course work for Module 3 must be taken for a grade (no Pass/No Pass).

Take these courses as a sophomore or as soon as prerequisites are completed.
At the beginning of the sophomore year, you should have completed your leadership (101), computer (150), MATH (104 or 106), ENGL (101 or 150 or 151), and JGEN 120 requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ECON 211</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ECON 212</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ECON 215</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

The next section on your DAR S, Module 3, will follow with similar notations. "O K" means the M odule is done, and "+" means you still need to take the designated courses.

**ACCT 201. Introductory Accounting I**
The introductory courses are sequential; take 201 first semester of your sophomore year, pending a 2.5 cumulative GPA and 27 completed hours. A student completing 14 hours of UNL credit with a 3.5 GPA may take 201 as a freshman.

**ACCT 202. Introductory Accounting II**
Accounting is sequential; take 202 the second semester of your sophomore year, pending a 2.5 cumulative GPA, 27 completed hours, and a grade of C in 201. You will also need a grade of C in ACCT 202 if you intend to take additional accounting courses.

**ECON 211. Principles of Macroeconomics**
and **ECON 212. Principles of Microeconomics (3 hrs each)**
The introductory course work is NOT sequential; you may take 211 or 212 the first semester of your sophomore year followed by the other your second semester, pending 27 completed hours. In a very exceptional case, both courses could be taken the same semester.

**ECON 215. Statistics**
 Taken during the first or second semester of the sophomore year, pending completion of the prerequisite courses BSAD 150 and MATH 104 or 106, and 27 completed hours, and a 2.5 cumulative GPA. CBA students must take ECON 215—not STAT 218.

Actual science majors will take STAT 380 instead of ECON 215. They may also choose to take ACCT 306 (in place of 201 and 202) and ECON 210 (in place of 211 and 212). JDE students will take JDEP 181, 182, 281, and STAT 380 for Module 3.

**Module 4—Business Administration Core (21 credit hours)**
All courses in Module 4 must be completed with a grade (no Pass/No Pass) and a minimum 2.5 cumulative GPA is required to enroll in Module 4 classes.

Complete these courses during the sophomore/junior year, pending completion of prerequisite courses.

As you reference your DAR S, notations of "O K" means the requirement is done, and "+" or "O K" means you still need to complete the requirement, pending completion of prerequisites. At this point in the program, enrollment in most 300/400-level business course work (M odule 4, 5, and/or 6) is reserved for juniors and seniors with the few exceptions noted. Prerequisites are enforced (including the 2.5 GPA) and must be completed—not in progress.

**ECON 215. Legal Environment (3 hrs) or**
**ECON 372. Business Law I (3 hrs)**
Sophomore standing, the math requirement, and a 2.5 GPA is required to enroll in 371; accounting majors must take BLAW 371. Refer to the footnote for prerequisites.

**MNGT/MIST 350. Introduction to Management Information Systems [IS] (3 cr)**
or
**MRKT 350. Introduction to Marketing Information Systems [IS] (3 cr)**
Sophomore standing, 2.5 GPA, and completion of BSAD 150 is required to enroll in this course. M arketing and agribusiness majors may choose to take MRKT 350, which carries an additional prerequisite of MRKT 341.

**FINA 361. Finance (3 hrs) and**
**MRKT 341. Marketing (3 hrs)**
Although sophomore standing is a noted prerequisite, other prerequisites which must be completed are noted in the footnote. Actuarial science majors must take FINA 461 in place of FINA 361.

**MNGT 331. Operations and Resource Management (3 hrs) and**
**MNGT 360. Management Behavior in Organizations (3 hrs)**
Junior standing and prerequisites in the footnote must be completed to enroll in these courses.

**MNGT 475. Business Policies and Strategies [IS] (3 hrs)**
Senior standing and prerequisites in the footnote must be completed to enroll in this class. Given that this is a capstone course, this class is reserved for the semester in which you will graduate.

**International Business Course Requirement (IBC R)**
The international business course requirement is to broaden the student's international perspective. Each student, excluding accounting majors, must include one course which emphasizes this international perspective.

The course chosen, which must be taken for a grade, may be classified as fulfilling either a requirement in M odule 5, 6, or 8. For some majors, an elective is required for the major; in which the department's international course can be taken, thus fulfilling a requirement for the major as well as the IBCR. Actuarial science and agribusiness majors will, most likely, need to work this requirement into a M odule 5 or 6.

The course must be chosen from the following approved list of International Business Course Requirement (IBC R) courses. Any of these courses have prerequisites. Some are restricted for study abroad and others may only be offered once a year. In some majors, the course can be used for Module 5 credit. Thus, you are advised to plan ahead in scheduling this requirement into your program.

**ACCT/FINA/MNGT/MRK T 429.**
Undergraduate Seminar in Japanese Business (6 hrs)
**BSAD 493.**
International Studies in Business and Economics (1-15 hrs)
**ECON 321.**
International Economics
**ECON 322.**
Developmental Economics
**ECON 323.**
Economic Development of Latin America
**ECON 388.**
Comparative Economics Systems
**ECON 421.**
International Trade
**ECON 422.**
International Finance
**ECON 423.**
Economics of Less Developed Countries
**ECON 440.**
Regional Development
**ECON 466** and **467.**
Pro-Seminar in International Relations I & II
**ECON 487.**
Economies in Transition
**FINA 450.**
International Finance
**MNGT 428.**
International Management
**MRKT 453.**
International Marketing

**Module 5—Departmental Major**
Take these courses during your junior/senior year.

At this point in the program, faculty expect that course work required up to this point in time has been completed, particularly M odule 1 and 2. M odule 3, 4, and M odule 5 are required. M ajor courses may be classified as fulfilling either a requirement in M odule 5, 6, or 8. For some majors, an elective is required for the major; in which the department's international course can be taken, thus fulfilling a requirement for the major as well as the IBCR. Actuarial science and agribusiness majors will, most likely, need to work this requirement into a Module 5 or 6.

**BLAW 371 or 372 (372 for ACCT majors)**
**MNGT/MIST 350 (or MRKT 350 option for ABUS & MRKT majors)**
**FINA 361 (461 for ACTS majors)**
**MRKT 341**
**MNGT 331**
**MNGT 360**
**MNGT 475**

1. Prerequisites which must be completed in this course appear in the course description section for the corresponding department. If there are prerequisites in this course, the student must have completed the prerequisite course(s) before enrolling in this course. The prerequisites include, but are not limited to: MATH 104 or 106, ENGL 101 or 105 or 151, and JGEN 120 or 201 or 202 or 306 or ECON 211 or 212 or 215 or STAT 218.
2. Actuarial science majors must consult with their advisor for exceptions to these prerequisites.
3. Available only for students in the Nebraska at Oxford summer study abroad program.
4. Available only for students in the Nebraska at Senshu fall exchange program; 3 hours applicable for FINA, M NGT major in M odule 5, 6 hours applicable for BSAD or I BU S major in M odule 5.
5. Available only for students seeking to obtain credit for upper-level business course work taken abroad for which there is no direct UN L equivalency.
6. Available only for students in the Nebraska at Oxford summer study abroad program.
7. Available only for students seeking to obtain credit for upper-level business course work taken abroad for which there is no direct UN L equivalency.
8. Available only for students in the Nebraska at Senshu fall exchange program; 3 hours applicable for FINA, M NGT major in M odule 5, 6 hours applicable for BSAD or I BU S major in M odule 5.
Students may pursue a major in accounting, actuarial science, agribusiness, business administration, economics, finance, international business, management, or marketing.

Course work for the major requires completion of specific courses, along with other guidelines. Refer to the departmental section for a listing of requirements and hours. Courses for the major are not necessarily available every semester (particularly summer), and thus planning for the major course work should start during the junior year.

Module 6–Business Electives
(6 hours minimum)

Take these courses during your junior or senior year.

As with the other modules, faculty expect most other business requirements and college prerequisites to be completed by this point in time. Because M odule 6 allows students the flexibility to consider double majors, as well as business minors, it is best to plan selection of this course work early to compliment the entire program.

Module 7–Non-Business Electives
(7 hours minimum)

Take these courses when appropriate to individual interests.

This course work may be taken to complete remaining degree requirements that have not yet been satisfied through other requirements such as any remaining IS requirements or 300 level M odule 1/2. Because these classes are of a students choosing, there are no restrictions on when these classes should be completed. M ajor students will complete the requirements near the end of the program, but if planned early and carefully, hours can be used to complete a non-business minor or a second major outside the college.

Module 8–Additional Elective Hours
(hours vary)

Take these courses when appropriate to individual interests.

At this point in the program (beyond the minimum hours required), additional E lective course work may be taken to complete remaining degree requirements that have not yet been satisfied through M odules 0–7 (such as the IBC R, any remaining IS requirements, a second major or minor).

**Course Sequence Example**

<table>
<thead>
<tr>
<th>First Year–Freshman</th>
</tr>
</thead>
<tbody>
<tr>
<td>M odule 0: BSAD 101, 150</td>
</tr>
<tr>
<td>M odule 1: ENGL 101, 150, or 151</td>
</tr>
<tr>
<td>M odule 1: MATH 104 (or 106)</td>
</tr>
<tr>
<td>M odule 2: ENGL 120</td>
</tr>
<tr>
<td>M odules 1 &amp; 2: Essential Studies and/or Electives (M odules 7 or 8)</td>
</tr>
<tr>
<td>Total: 30-36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year–Sophomore</th>
</tr>
</thead>
<tbody>
<tr>
<td>M odule 3: ACC 201 and 202</td>
</tr>
<tr>
<td>M odule 3: ECON 211 and 212</td>
</tr>
<tr>
<td>M odule 3: ECON 215</td>
</tr>
<tr>
<td>M odules 1 &amp; 2: Essential Studies and/or Electives (M odules 7 or 8)</td>
</tr>
<tr>
<td>Total: 30-36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second or Third Year–Sophomore/Junior</th>
</tr>
</thead>
<tbody>
<tr>
<td>M odule 2: COMM 311</td>
</tr>
<tr>
<td>M odule 4: BLAW 371 (non-accounting majors)</td>
</tr>
<tr>
<td>M odule 4: M NGT 350</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Year–Junior</th>
</tr>
</thead>
<tbody>
<tr>
<td>M odule 4: BLAW 371 or 372</td>
</tr>
<tr>
<td>M odule 4: FIN 361</td>
</tr>
<tr>
<td>M odule 4: M NGT 331, 350, and 360</td>
</tr>
<tr>
<td>M odule 4: MKT 341</td>
</tr>
<tr>
<td>M odules 5: Departmental M ajor Requirements</td>
</tr>
<tr>
<td>M odules 1 &amp; 2: Essential Studies and/or Electives (M odules 7 or 8)</td>
</tr>
<tr>
<td>Total: 30-36</td>
</tr>
</tbody>
</table>

Other notes of importance regarding course work for M odule 5:

a. A minimum of 6 hours of business course work offered by the College of Business Administration is required (no business related course work offered by other colleges/departments is accepted);

b. Actuarial science majors and JD Edwards students have specific requirements for M odule 6; refer to the departmental major section;

c. Additional hours for M odule 6 may be required if transfer hours or waivers in other modules do not meet minimum hour requirements;

d. Course work for M odule 6 will be taken for a grade, unless it meets the exceptions as noted on page 219 for independent study/special topics options;

e. If necessary, course work for M odule 6 can be used to satisfy other requirements (such as the IBC R or remaining IS requirements); or it may be used to satisfy course work toward a business minor or a second business major.

Other notes of importance regarding course work for M odule 7:

a. A minimum of 7 hours of non-business course work must be completed to meet the college's rule of 50% of the program requirements outside the college;

b. Actuarial science majors and JD Edwards students have specific requirements for M odule 7; refer to the departmental major section;

c. Additional hours for M odule 7 may be required if transfer hours or waivers in other modules do not meet minimum hour requirements;

d. Course work for M odule 7 can be taken on a Pass/No Pass basis providing it is within the 9 hour maximum for the program;

e. If necessary, course work for M odule 7 can be used to satisfy other requirements (such as remaining IS requirements, M odule 1/2 300/400 level requirements), or it may be used to satisfy course work toward non-business minors or majors.

Other notes of importance regarding course work for M odule 8:

a. 128 hours is required for the degree; most majors will take 10 hours in M odule 8; marketing generally will take 13. Any remaining hours to meet the minimum 128 hour requirement is done in M odule 8.

b. Three hours can be business or non-business course work;

c. JD Edwards students have specific requirements for M odule 8;

d. Additional hours may be required if transfer hours or waivers in other modules do not meet minimum hour requirements;

e. Course work can be taken on a Pass/No Pass basis providing it is within the 9 hour maximum for the program.

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7. This one-hour course is required for the degree, however, the credit does not count toward the 128-hour degree requirement.
The courses in accounting are designed to provide students with a general education, business and accounting knowledge, interpersonal skills, communication skills, analytical skills, and critical thinking skills. They are the foundation for career development.

Accounting Major

All course work for the major must be taken for a grade (no Pass/No Pass). Since the expected sequence of accounting courses for either program depends on individual career goals, students are strongly advised to consult with their adviser prior to enrolling in courses.

For example, 201 and 202, although normally taken during the sophomore year, is open to freshman students with a 3.5 GPA and 14 hours of credit. If selected as a freshman, upper-level work normally taken in the third year can then be taken as a sophomore.

Other than the exception noted above, the major courses are completed during the junior and senior year. Summer sequencing is difficult and scheduling should be planned a year in advance. CBA undergraduates are also expected to have completed the following general college requirements before enrolling in the major course work: M odule 0, M odule 1 (Areas A and B), M odule 2 (Area A), and all M odule 3 course work.

Accounting majors are waivered from the IBCR (International Business Course Requirement).

It is extremely important for those students planning to pursue careers as certified public accountants to carefully plan their program. Most states require 150 semester hours of course work with a minimum number in accounting to take the CPA exam. Consequently, these students are encouraged to pursue the five-year program leading to a masters of professional accountancy. Since specific eligibility requirements vary from state to state, interested students should contact their state Board of Accountancy or the Director of the School of Accountancy.

The courses required during the first three years are the same for both the four-year and five-year program (for M odule 0). They include:

- ACCT 308 Managerial Accounting
- ACCT 309 Accounting Systems
- ACCT 313 Intermediate Accounting I
- ACCT 314 Intermediate Accounting II
- BLAW 372 Business Law

Prior to their fourth year in the program, students have the option to pursue and complete the four-year program or to request permission to enter the five-year program. To enroll in the accounting program leading to a bachelor's degree at the end of four years (128 hours), students will complete the general college requirements and a minimum of 24 hours (which includes completion of BLAW 372 for M odule 4) of accounting required for a major, plus any chosen electives. This leads to the bachelor of science degree in business administration with a major in accounting.

These courses consist of the following courses (9 hours) which are to be completed during the fourth year:

- ACCT 410 Auditing
- ACCT 412 Federal Tax Accounting
- Advanced Accounting elective

Total 3

Although it is not required, students interested in completing additional accounting courses as electives in their programs may select the following courses:

- ACCT 404 Advanced Accounting
- ACCT 408 Advanced Managerial Accounting
- ACCT 430 Advanced Auditing

Students interested in applying for the five-year program, which leads to a masters of professional accountancy (M PA), should apply for and be admitted to the graduate program prior to their fourth year of the bachelors program. This process requires submission of a graduate application, three letters of recommendation, official transcripts and results of the Graduate Management Admissions Test.

Students granted permission to enter the five-year program will complete 156 hours of course credit. This program would consist of the general requirements as set forth by the College for the bachelors degree, as well as the 15 hours of accounting/business law credit (listed above) to be taken during the junior year (ACCT 308, 309, 313, 314, and BLAW 372). During the fourth year of the M PA program, students will take the following courses:

- ACCT 404/804 Advanced Accounting
- ACCT 408/808 Advanced Managerial Accounting
- ACCT 410/810 Auditing
- ACCT 412/812 Federal Tax Accounting

Total 12

During the fifth year of the M PA program, students are required to complete:

- ACCT 803 Seminar in Accounting Theory
- ACCT 831 Seminar in Auditing
- ACCT 857 Control Systems or 858 Seminar in Managerial Accounting
- Accounting 900 level or 800 level with no 400-level counterparts
- Additional graduate-level course work to meet minimum 156 hours

Additional requirements such as submission of a program and application for final degree should be completed during the fifth year of the program. Students should contact the M PA adviser for additional information. Students registration forms must be signed by the M PA adviser each semester.

The courses in accounting are designed to give business students a basic proficiency in accounting as an analytical tool for understanding business and public affairs and to develop essential theory and application for those specializing in the field. Students who complete the College of Business Administration program with a major in accounting and/or the master of professional accountancy, are well prepared to accept positions in industry, commerce, government service, or public accounting.

Since both managerial accountants and certified public accountants serve as consultants and advisers to business management and public officials, courses that provide an educational foundation for this consulting and advising should be included in an accounting program. Remaining electives should be balanced.
between additional accounting courses and courses selected from applied mathematics and quantitative techniques, data processing and systems, economic analysis, management theory, and behavioral sciences, as well as advanced courses in the functional areas of business (i.e., finance, marketing, personnel, production).

Accounting Minor Requirements

The accounting minor is available to College of Business Administration students only. Accounting course work used for this minor cannot be counted toward business degree requirements (with the exception of business electives), another major, or other business minor requirements.

To fulfill the requirements for an accounting minor, students must complete twelve graded hours of accounting course work (no Pass/No Pass) to include the following: ACCT 308, 309, 313, and 314.

Courses of Instruction

All students enrolling in CBA courses are required to meet the prerequisites listed for each course, including any specific grade or GPA requirement for major standing for enrollment in 300 or 400-level business courses, except where noted otherwise.

CBA students are also expected to have completed M odle 0, M odle 1 (Area A and B), M odle 2 (Area A), and M odle 3 prior to enrolling in 300 or 400-level business courses.

The only exceptions to this rule are BLAW 371, FINA 361, M RT 341, and M NGT/M IST 350, requiring sophomore status and other stated prerequisites, and enrollment in accounting classes for those granted permission via the 3.5 and 14 hour exception.

Permission, as a prerequisite for any course, is intended to mean the approval of the instructor teaching the course. All accounting prerequisite courses must have been completed with a grade of C or better unless special permission is obtained from the director.

N o accounting course may be taken Pass/No Pass except ACCT 399, which counts only as a business elective (M odle 6) in the program.

ACCT 399 may be taken on a Pass/No Pass basis with the approval of the instructor and the director.

All 800- and 900-level courses are open to graduate students 800-level courses may be taken by undergraduate students with permission.

Accounting (ACCT)

201. [201x]. Introductory Accounting I (3 cr) Prereq: Sophomore standing and 2.5 GPA, or freshman standing and 3.5 GPA over at least 14 credit hours earned at UNL. Develops fundamentals of accounting, reporting, and analysis that are helpful in understanding financial, managerial, and business concepts and practices, and provides the foundation for many advanced courses in the College.

201H. Honors Introductory Accounting I (3 cr) LeC 3. Prereq: Good standing in the University Honors Program or by invitation; freshman standing 3.5 GPA over at least 14 credit hours earned at UNL. For course description, see ACCT 201.

202. [202x]. Introductory Accounting II (3 cr each) Prereq: Sophomore standing ACCT 201 with grade of C or better; and a 2.5 cumulative GPA. Continuation of ACCT 201.

306. Survey of Accounting (4 cr) Prereq: Except for the 53-hour requirement, the junior standing prerequisite is waived. ACCT 201 is not open to students who have credit in ACCT 201 and/or 202. A one-semester course for students above the sophomore level who desire a knowledge of the fundamentals of accounting.

Fundamentals of accounting analysis which are most helpful in understanding managerial and business concepts and practices.

11] 306. Managerial Accounting (3 cr) Prereq: ACCT 201 and 202 with grade of C or better, or 306 with grade of C or better. Internal accounting as a tool to generate information for managerial planning and control. Conventional and computer problem materials are used to develop understanding of operating and capital budgets, standards costs, incremental concepts, relevant costs, transfer pricing, and responsibility and profit center reports as means of analysis as well as techniques of measurement.

11] 309. Accounting Systems (3 cr) Prereq: ACCT 201 and 202 with grade of C or better, or ACCT 306 with grade of C or better, or ACCT 201 and 202 with grade of C or better. Examination of accounting system concepts, applications, and the process by which they are analyzed, designed, implemented. Emphasis on management information and computer applications in financial accounting, auditing, and management accounting by means of case study analysis.

313 (313x). Intermediate Accounting I (3 cr) Prereq: ACCT 201 and 202 with grade of C or better, or 306 with grade of C or better. Analysis and interpretation of financial and operating statements; net income concepts; statements from incomplete records; theory and practice relating to cash flow; and the investment in tangible and intangible assets.

313A. Intermediate Accounting II (3 cr) Prereq: ACCT 313 with grade of C or better, or permission. Continuation of ACCT 313 with concentration on contemporary accounting theory and practice regarding long-term liabilities, corporate equities, and profit area under study by professionals in accounting. Analysis of financial statements and the statements of cash flow stressed and related to current controversial topics.

398. Special Topics (1-3 cr, max. 3) Lec. Prereq: Permission of department chair. Topics vary.

399. Independent Study I (3 cr) Prereq: Permission of the director of the School of Accountancy and 60-600 level who desire a knowledge of the fundamentals of accounting.

399G. Honors Independent Study III (3-6 cr) Prereq: Good standing in the University Honors Program or by invitation, and permission of the supervising faculty member and chair of the School of Accountancy. Special research project or reading program under the direction of a faculty member in the School.

404/404S. Advanced Accounting (3 cr) Prereq: ACCT 314 with grade of C or better, or permission. Special accounting problems relating to the preparation of combined and consolidated financial statements for accounting entities with branch offices and with subsidiaries, both domestic and foreign; partnership accounting; accounting for foreign currency transactions and translations; governmental and not-for-profit accounting.

407. Ethics and Accountant's Professional Responsibility (3 cr) Lec. Prereq: ACCT 313 with grade of C or better. Role of a professional accountant, codes of accountants, ethical decision making, the legal, regulatory and social environment in which an accountant makes an ethical decision.

408/408S. Advanced Managerial Accounting (3 cr) Prereq: FINA 361 and ACCT 306 with grade of C or better, or permission. Advanced treatment of managerial accounting topics with emphasis on generation, communication, and use of information to assist management in performance of planning and control function, problems, cases, materials, and computer systems analysis are used to develop understanding of variance analysis, cost systems, capital budgeting, and other quantitative techniques relevant to internal accounting.

410/410S. Auditing (3 cr) Prereq: ACCT 309 and 314, both with a grade of C or better. Duties and responsibilities; methods of conducting various kinds of audits; audit thinking, writing, preparation of the audit report; the auditor's certificate; special problems in the audit of different kinds of enterprises.

412/412. Federal Tax Accounting (3 cr) Prereq: ACCT 313 with grade of C or better, or permission. Federal and state income tax concepts. Includes theory and historical growth of the fundamentals of the federal tax laws and regulations. Emphasis on the practical application of the tax laws in the preparation of the tax returns for wage earners and sole proprietors and the need for tax planning.

429. Undergraduate Seminar in Japanese Business (6 cr) This course may count only as a free elective for students majoring in marketing. Can be offered in English only by the faculty of the College of Business of Senshu University, Tokyo, Japan.

Japanese business techniques in the five functional areas: accounting, economics, finance, management, and marketing. Historical perspective and current practices emphasized. Strong academic emphasis as well as lectures by academicians, businesspeople, and civil servants. Plant and office visits required.

430/430S. Advanced Auditing (3 cr) Prereq: ACCT 410/410S with a grade of C or better, or permission. Internal and compliance auditing; auditor's ethics and liability; EDP auditing; audit sampling; special report writing; audit standards for state and local governmental entities and government auditing; current review and discussion of selected audit cases. International auditing.

499H. Honors Thesis (3-6 cr) Prereq: Good standing in the University Honors Program or by invitation, and permission. Conduct a scholarly research project and write a University Honors Program or undergraduate thesis.

802. Accounting Standards (3 cr) Prereq: ACCT 810 with a grade of C or better, or permission.

803. Seminar in Financial Accounting (1-3 cr, max. 3) Prereq: Admission to the M aters of Professional Accountancy (MPA) program, or permission of the M PA adviser and instructor.

807. Ethics and Accountant’s Professional Responsibilities (3 cr) Prereq: ACCT 410/412 with a grade of C or better, or permission.

813. Advanced Federal Tax Accounting (3 cr) Prereq: ACCT 412/412S with a grade of C or better.

814. Governmental and Not-for-Profit Accounting (3 cr) Prereq: ACCT 314.

815. Tax Research and Planning (3 cr) Prereq: ACCT 412/412S.

816. Special Topics in Federal Taxation (3 cr) Prereq: ACCT 412/412S.

817. The Income Tax and Management Decisions (3 cr) Prereq: Courses constituting the equivalent of the undergraduate common body of knowledge requirement for CBA.

*818. Taxation-Farm & Ranch (LAW 618) (3 cr) Prereq: LAW 637 or ACCT 412/412S.

831. Seminar in Auditing (3 cr) Prereq: ACCT 810. Prereq: Admission to the Masters of Professional Accountancy (MPA) program, or permission of the M PA adviser and instructor.

*837. Taxation-Individual Income (LAW 637/637G) (3-4 cr, max. 4) For course description, see LAW 637/637G.

*838. Taxation-Corporate (LAW 638) (3 cr) Prereq: LAW 637 or ACCT 412/412S.

840. Fraud Examination (3 cr) Prereq: Permission.

*848. Business Planning (LAW 648) (3 cr) Prereq: LAW 636 or ACCT 813.

857. Controllersh (3 cr each) Prereq: Admission to the Masters of Professional Accountancy (MPA) program, or permission of the M PA adviser and instructor.

*863. Taxation-Individual Income II (LAW 663) (3 cr)

899. Master's Thesis (6-10 cr)

NOTE: With the specific approval of the faculty member teaching the course and the Dean of the College of Law, students not seeking a law degree may be admitted to one or more of the courses indicated above with an asterisk (*)

Refer to the Graduate Bulletin for 900-level courses.
Business Law (BLAW)

371. Legal Environment (3 cr) Prereq: Sophomore standing; 2.5 GPA; MATH 104/104H or 106/108H. Law as it relates to the business transaction. Torts, contracts, sales and related topics in the political and economics environment in which business functions and consideration of social and ethical issues creating privilege for charge.

372. Business Law I (3 cr) Prereq: Junior standing and a 2.5 GPA. In addition to the specific prerequisites listed above, CB majors must also have completed the following courses or their equivalents: BSAD 150/EN GL 101 or 150 or 151; MATH 104/104H or 106/108H. (GEN 120 COM M 311; ACCT 201 or 202, or 306; ECON 211 and 212, or 210; ECON 215 or STAT 218. Prereq for actuarial science.)

Module 1: Actuarial Science Major

13. Majors must still meet the IBCR and IS requirements of the College, which requires careful planning, particularly in Module 1 and 2 to satisfy the IS requirements.

Actuarial Science

Director: Warren Luckner
Professor: Ramsay
Associate Professor: M. Vanek
Lecturer: Vargas

An actuary is a mathematically-oriented business person who will most likely be a manager or supervisor at some point in his/her career. Thus, a course of study culminating in a bachelor of science degree in business administration with a major in actuarial science is an excellent educational background for prospective actuaries. Additional information is available at www.BeaAnActuary.org.

The actuarial science program is designed to prepare students for the current industry demands. Because demands change on a regular basis often times, the number of hours, the sequencing of courses, and the specific requirements change for this major. Students should continue to consult with the department for the appropriate selection and listing of course requirements.

In addition, because of the mathematical orientation for this program, actuarial science majors are required to make some modifications to the degree program requirements. These requirements (with a reminder that all required course work must be taken for a grade) are noted below.

Actuarial Science Major

All course work for the major must be taken for a grade (no Pass/No Pass).

Module 1: As part of the Essential Studies requirement, actuarial science majors must take MATH 106 for the Area B requirement and CSCE 105 for Area D. Be sure to plan carefully for meeting the IS requirements in M od 1 and 2.

Module 2: In addition to required Area A courses (COM M 311 and GEN 120), actuarial science majors will take MATH 107 and 208 for 9 hours of credit for the Area B or D requirement. For the Area C or E requirement, majors must take 3 hours from Area F or G and 3 hours from Area C or E or H. The remaining hours normally required for this module will be fulfilled with the extra hours from MATH 107 and 208. See note above regarding IS credit.

Module 3: Actuarial science majors may “elect” to take ACCT 306 (4 hrs) in place of ACCT 201 and 202 and ECON 210 (5 hrs) for ECON 211 and 212. In addition, majors must take STAT 380 in place of ECON 215.

Module 4: Majors must take FINA 461 (3 hrs) in place of FINA 361. For actuarial science students, ACTS 440/440E satisfies the prerequisite for FINA 461.

Module 5: T he current requirements for the major consist of 28 hours and the following courses. However, students should continue to consult with an actuarial science program adviser for an updated listing of hours and course requirements.

Module 6: As part of the Essential Studies requirement, actuarial science majors must take MATH 314 and 315. Students are also strongly encouraged to take actuarial science problem labs as appropriate, MATH 314 and at least one of FINA 412, 420, or 430.

Module 7: Actuarial science majors must take STAT 462 Introduction to Mathematical Statistics I; Distribution Theory, and STAT 463 Introduction to Mathematical Statistics II: Statistical Inference.

Module 8: A minimum of 128 hours is required for the degree. Additional hours, such as an Integrative Studies requirement, not yet fulfilled, or other hours to total 128 will be taken here. Normally, actuarial science majors who have planned their program appropriately will need no additional hours for this module.

Actuarial Science Minor

Course work for the minor cannot be double-counted toward business degree requirements (with the exception of the MATH/STAT prerequisites and business electives), major, or any other business minor requirements. The minor requires 12 graded hours of actuarial science courses plus prerequisite mathematics and statistics courses.

Courses of Instruction (ACTS)

All students enrolling in CB majors are required to meet the prerequisites listed for each course, including any specific grade or GPA requirement, and junior standing for enrollment in 300 or 400-level business courses. CB students are also expected to have completed M od 6, 1 (Area A & B), 2, 3, and 4 prior to enrolling in 300 or 400-level business courses, however actuarial science majors may begin some of their upper-level course work earlier. Consult with the department regarding appropriate exceptions.

All 800- and 900-level courses are open only to graduate students.

399. Independent Study (1-3 cr) Prereq: Permission.

403. Problem Lab: Basic Actuarial Applications of Probability (1 cr) Lab 1. prereq: MATH 208/208H and STAT 462, or parallel, and both with a grade of “Pass” or “C” or better.

Calculus-based probability, both univariate and multivariate, applications to risk management-related problems. Problems as posed in the Society of Actuaries (SOA) Exam P and/or Casualty Actuarial Society (CAS) Exam “1”. Determination of loss frequency distributions and their characteristics, expected value, variance, and percentiles. Determination of loss severity distributions and their characteristics, expected value, variance, and percentiles. Determination of loss sharing parameters, deductibles, and maximum payments.


A presentation of basic mathematics of finance to problems involving valuation of financial transactions. Problems as posed in the Society of Actuaries (SOA) Exam FM” and/or Casualty Actuarial Society (CAS) Exam “2”. Determining equivalent means of interest; estimating the rate of return on a fund; discounting or accumulating a sequence of payments with interest; determining yield rate, length of investment; amounts of investment contributions or amounts of investment returns for various types of financial transactions and basic calculations involving yield curves, spot and forward rates, present and future value, convexity, immunization and short sales introduction to financial derivatives (forwards, options, futures, and swaps) and their use in risk management and introduction to the concept of no-arbitrage as a fundamental concept in financial mathematics.


Problems as posed in the Society of Actuaries (SOA) Exam “1M” and/or Casualty Actuarial Society (CAS) Exam “4M”. Construction of empirical models and selection of parametric models credibility theory; interpolation and smoothing of data and simulation.


Problems as posed in the Society of Actuaries (SOA) Exam “1M”. Interest rate models; rational valuation of derivative securities (option pricing: put-call parity, the binomial model, Black-Scholes formula, and actuarial applications); interpretation of option Greeks and delta-hedging features of exotic options; an introduction to Brownian motion and Ito’s lemma; and risk management techniques.

425/825. Survival Models (3 cr) Lec. Prereq: STAT 463 with a grade of "C" or better. Parametric and tabular survival models. Estimation based on observations that might not be complete. Censored variables used in survival data. Applications to groups with censored lives.

430/830. Actuarial Applications of Applied Statistics (3 cr) Lec. Prereq: STAT 463 with a grade of "C" or better. Data sets processed and analyzed using statistical software. Introduction to forecasting in actuarial science. Simple and multiple regression, instrumental variables, time series methods, and applications of methods in forecasting actuarial variables. Interest rates, inflation rates, and claim frequencies.

440/840. Financial Mathematics (4 cr) Lec. Prereq: MATH 208 with a grade of "Pass" or "C" or better, or parallel. Application of financial mathematics to problems involving valuation of financial transactions, equivalent rates of interest, interest rate, and price and yield rates, length of investment, amounts of investment contributions or amounts of investment returns for various types of financial transactions. Loans and bonds. Introduction to the mathematics of modern financial analysis. Calculations involving yield curves, spot rates, forward rates, duration, convexity, immunization and short sales. Introduction to financial derivatives (futures, options, futures, and swaps) and their use in risk management. Introduction to the concept of no-arbitrage as a fundamental concept in financial mathematics.


470/870. Life Contingencies I (3 cr) Lec. Prereq: ACTS 471/871 and STAT 462, each with a grade of "C" or better. Theory and applications of contingency mathematics in the areas of life and health insurance, annuities, and pensions. Probabilistic models.

471/871. Life Contingencies II (3 cr) Lec. Prereq: ACTS 471/871 and STAT 462, each with a grade of "C" or better. Further analysis of probability of survival and life insurance, annuity, and pension models. Probabilistic models.

473/873. Introduction to Risk Theory (3 cr) Lec. Prereq: STAT 462 with a grade of "C" or better. Applications of compound distributions in modeling of insurance loss. Continuous-time compound Poisson surplus process, computation of ruin probabilities, the distributions of the deficit at the time of ruin, and the maximal aggregate loss. The effect of reinsurance on the probability of ruin.


860. Loss Distribution (3 cr) Prereq: STAT 463.

889. Masters Thesis (6-10 cr) Refer to the Graduate Bulletin for 900-level courses.

Agribusiness

Director: Professor Ron Hampton

N U's Agribusiness Program is nationally recognized for its innovation and quality. The program is designed to meet the agribusiness industry's needs for professionals and entrepreneurs who have the educational background to become successful decision-makers in the rapidly changing agribusiness world. Agribusiness students interact with agribusiness professionals through learning and work-related opportunities both in and out of the classroom.

Maring in the Agribusiness Program prepares students for many agribusiness careers, such as:

- Agribusiness Management
- Finance and Lending
- Real Estate Management and Investment
- Commodity Trade and Analysis
- Grain Marketing
- Market Planning and Analysis
- International Marketing
- Entrepreneurship and New Business Development
- Sales Management
- Information Technology and Analysis
- Risk Management
- Food Marketing and Industry Organization

The agribusiness major also prepares students for graduate study in agribusiness, business administration, and agricultural economics. The Agribusiness Major is a joint program between the College of Business Administration and the College of Agricultural Sciences and Natural Resources. It prepares students for careers in this dynamic and constantly changing field. It is the first program of this kind in the US and is designed to meet the agribusiness industry's need for employees with training in both business and agriculture.

Agribusiness majors take a blend of courses in business and agriculture that gives the student a balance between the decision-making framework of business and the technical aspects of modern agriculture and food systems. This means emphasis is placed on business and agriculture, making it an attractive degree for agribusiness employers and a very marketable degree for agribusiness students. The CBA Agribusiness Program also allows the student to build expertise in their area of interest by taking a course in Agricultural Sciences and Natural Resources courses in a specific area.

Agribusiness Major Requirements

All core work for the major must be taken for a grade (no Pass/No Pass).

The requirement for the agribusiness major, in addition to the general college requirements, is comprised of six courses. Each of these courses is worth 3 credit hours and is worth 18 total credit hours for the major. M, M odle 5, which consists of classes in the College of Agricultural Sciences and Natural Resources.

All students enrolling in CBA courses are expected to meet the prerequisites listed for each course, including any specific grade or GPA requirement. To be considered for enrollment in 300 or 400-level business courses, CBA students are also expected to have completed M odle 0, M odle 1 (A rea & B), M odle 2 (A rea A), and M odle 3 prior to enrolling in 300 or 400-level business courses.

Module 1. (28 hours) Agribusiness majors will make one modification to the M odle 1 Essential Studies requirements. Area D must be satisfied with the completion of BIOL 101, which is required for the program.

Module 2. (21 hours) Students interested in agronomy or chemical sales are recommended to take CHEM 109 for the Additional Essential Studies Area B or D requirement.

Module 3. (15 hours) Business Foundation courses, complete as a sophomore. Refer to specific and general prerequisites as listed for M odle 3 on page 226.

Module 4. (21 hours) Agribusiness majors may elect to fulfill the M NGT/M IST 350 requirement with M RKT 350. M NGT 475 is the capstone course for the College of Business Administration, which is taken the final year in the program when all prerequisites for the course are completed.

Module 5. (31 hours) The current requirements for the agribusiness major, in addition to the general college requirements and courses listed above, consist of 31 hours of the following course work:

- 1. AECN 201 Farm & Ranch Management
- 2. M RKT 225 Agribusiness & Food Products Marketing
- 3. M RKT 325 M arketing of Agricultural Commodities

2 hours of production course work from the following list of approved courses:

AGRI 200
ACSI 100, 150, 200, 211, 212, 240, 250, 300A, 300B, 300D, 300E, 301, 310, 320, 330, 341, 351, 360, 370, 410, 418, 450, 451, 452, 453, 454, 455, 457, 465, 485
ENTER 204, 211, 316, 303, 308, 409
FDST 101, 203, 403, 405, 406, 412, 418, 425, 429, 455
HORT 130, 170, 200, 212, 213, 221, 260, 261, 262, 266, 325, 327, 350, 362, 467, 468, 469
NRES 211, 212, 213, 310, 311, 323, 348, 350, 408, 424
MSYM 232, 245, 312, 342, 354, 364, 431, 452
PLPT 369
VBMS 303, 441

3 hours of non-production course work.

Non-production courses consist of any class taken in the College of Agricultural Sciences and Natural Resources that is not in the list of "Production" courses (above).

4. 9 hours of College of Agricultural Sciences and Natural Resources electives. These hours consist of any course in the College of Agricultural Sciences and Natural Resources.

Eighteen of the 24 hours (6 hours production, 9 hours non-production, and 9 hours College of Agricultural Sciences and Natural Resources electives) must be completed at the 200 level or above. Courses and descriptions appear under the individual departmental majors.

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Students should consult with their adviser for the appropriate selection of courses.

**Module 6.** (6 hours) 
An additional 6 hours of College of Business Administration business electives classes are required in this module.

**Module 7.** (5 hours) Students can use this module for any non-business electives such as additional course work from the College of Agricultural Sciences and Natural Resources or with any hours over the amount required for M odules 1-6.

**Module 8.** A minimum of 128 hours is required for the degree and any additional hour requirements (depending on total hours completed for the other modules) must be taken on this module. Normally, no other hours are required given the major consists of 31 hours.

### Courses of Instruction (BUSAD)

[ES] 341 [341x]. Marketing (M R K T 341) (3 cr) Prereq: Sophomore standing, ECON 211 and 212, or 210, 2.5 GPA. In addition to specific prerequisites listed, C BA. students must also have completed the following courses or their equivalents: MATH 104/104H or 106/108H; JGEN 120; COMM 311; J. D. Edwards Program and its application to leadership.

**Business Administration**

The business administration major is designed for students who wish to obtain a broad education in business administration rather than specializing in a specific area within the College. Under this option, students may choose courses from any of the departments within the College in any combination. For the student who has an educational goal that bridges more than one or more areas of business, the general business administration major permits the design of a tailor-made program to fit that goal.

Many organizations seek generalists rather than specialists when hiring employees. Some employers feel that in today’s world of rapid change individuals who have a broad educational background are more adaptive to this change and are better suited to a variety of roles within the organization.

### Business Administration Major Requirements

All course work for the major must be taken for a grade (no Pass/No Pass).

The requirements for the business administration major, in addition to the general College requirements, include 21 hours of 300- and 400-level business and/or economics courses, with the following restrictions:

- A minimum of three departments must be represented.
- A minimum of 9 hours at the 400 level.
- A maximum of 9 hours from one department.

All students enrolling in CBA courses are required to meet the prerequisites listed for each course, including any specific grade or GPA requirement, to include junior standing for enrollment in 300- or 400-level business courses.

Because of the broad nature of this major, business students are expected to have completed their information systems, communications, marketing, financial accounting, and economics requirements prior to enrolling in M odule 5, 6, or 8 business courses.

Students who participated in the C B A. at Sendu U niversity Program may use 6 hours of 429 (offered by the departments of accounting, finance, management, and marketing) on 6 hours of BSAD 491 toward a business administration major. Courses and descriptions appear under the School of Accountancy and Individual departments of economics, finance, management and marketing.

### Courses of Instruction (BSAD)

092. CBA Career Skills Seminar (10 cr) Lec 1. BSAD 092 requires writing resumes and letters of application and going through a mock interview. Pass/F No Pass only.

Seminar to develop job-hunting skills as applied to the fields of business. How to go about the j ob-hunting process effec- tively and efficiently. Experiential in design. A ssesses capabil- ities and research potential employers.

096. Senior Assessment (0 cr) Pass/F No Pass only. Ul tilizing Blackboard and a prepared meeting to inform of appropriate career-related announcements, activities, and responsibilities. Assessments activities are conducted through class and include such exams as the Educational Testing Service M ajor Field Exam, the College of Business Administra- tion Student Services, Employment (post-graduation) survey, and other assessment-related activities.


Concepts and principles of leadership development and their relationship of the various disciplines within business, the college, the university, the community, and society in general.

150. Business Computer Applications (1 cr) Pass/F No Pass only. Orientation to a minimum degree of computer proficiency using basic business software packages that are required to earn a degree from the College of Business Administration (CB A.) or for a non-C B A. major or minor in a C B A. course.

Computer proficiency required to use basic business software packages.

181H. Honors Foundations of Business I (JDEP 181H) (3 cr) Lec 3, rec 2. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program. First course in the J. D. Edwards Program core. Introduction to financial accounting, accounting systems, basic finance, management and information systems. Content integration and application; problem-solving and situational analysis.


183H. Honors Foundations of Leadership I (JDEP 183H) (1 cr) Lec 1. Prereq: Good standing in the University Honors Program or by invitation; admission to the J. D. Edwards Program and BSAD/JDEP 185H. Sixth course in the J. D. Edwards Program core. Continued pursuit and analysis of personal development and its application to leadership.

184H. Honors Foundations of Leadership II (JDEP 184H) (10 cr) Lec 1. Prereq: Good standing in the University Honors Program or by invitation; admission to the J. D. Edwards Program and BSAD/JDEP 185H. Sixth course in the J. D. Edwards Program core. Continued pursuit and analysis of personal development and its application to leadership.


285H. Honors Applications of Leadership I (JDEP 285H) (1 cr) Lec 1. Prereq: Good standing in the University Honors Program or by invitation; admission to the J. D. Edwards Program and BSAD/JDEP 280H. Final course in the J. D. Edwards Program core. Focus on making sense of yourself and others, Applications to team and shared leadership development.

286H. Honors Applications of Leadership II (JDEP 286H) (3 cr) Lec 3, rec 2. Prereq: Good standing in the University Honors Program or by invitation; admission to the J. D. Edwards Program and BSAD/JDEP 280H. Second semester in the J. D. Edwards Program core. Focus on making sense of yourself and others. Further applications to team and shared leadership development.

301H. Honors JDEP Design Studio I (JDEP/CSE 301H) (3 cr) Lec 3, lab. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; BSAD/JDEP 280H. Fifth course in the J. D. Edwards Program core. Microeconomics and introduction to advanced topics in accounting systems, finance, management and information systems. Content integration and application to problem-solving and situational analysis.

302H. Honors JDEP Design Studio II (JDEP/CSE 302H) (3 cr) Lec 3, lab. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; BSAD/JCE/JDEP 301H. Second semester in the J. D. Edwards Program design studio sequence. For course description, see JDEP 302H.

303H. Honors Advanced Topics in Business I (JDEP 303H) (3 cr) Lec 3, lab. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; BSAD/JCE/JDEP 302H. Third course in the J. D. Edwards Program design studio sequence. For course description, see JDEP 303H.

304H. Honors Advanced Topics in Business II (JDEP 304H) (3 cr) Lec 3, lab. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; BSAD/JCE/JDEP 303H. Fourth course in the J. D. Edwards Program design studio sequence. For course description, see JDEP 304H.

401H. International Studies in Business and Economics (1-35 cr) Max 15 Cr. Prereq: Permission of Program Coordinator, major or interest in business administration or by invitation. Passport to travel in some countries required, educational visa may be required. Students must confer with College of Business Administration prior to travel. Some courses or study abroad work is applicable towards a specific C B A. major. Travel outside the United States is required. Experiential in design. Student fees to vary depending on the country(ies) and area of study.

14. Students who have not completed their Integrative [IS] requirements or their International Business Course Requirement (IBCR) in other modules, may wish to select appropriate courses to fulfill these requirements for the major.
Economics

ECON 311 Intermediate Macroeconomics.............. 3
ECON 312 Intermediate Microeconomics.............. 3
Economics 300- or 400-level course.................... 6
Economics 400-level courses........................... 9
Faculty approval required on proposed program of course work.

Total 215

Economics Minor Requirements

The economics minor offered through CBA is available to College of Business Administration students only. Economics course work used for this minor cannot be double counted toward business degree requirements (with the exception of business electives) or other major or business minor requirements. Business students choosing to minor in economics must follow the CBA economics minor requirement (not Arts and Sciences).

To fulfill the requirements for an economics minor, students must complete nine graded hours of economics course work (no Pass/No Pass at the 300/400 level).

Courses of Instruction (ECON)

All students enrolling in CBA courses are required to meet the prerequisites listed for each course, including any specific grade or GPA requirement, to include junior standing for enrollment in 300 or 400-level economics courses. The only exceptions to this rule are B LAW 371, FINA 361, M R K T 341, and M N G T / M IST 350, requiring sophomore status and other stated prerequisites.

CBA students are also expected to have completed Module 0, Module 1 (Area A and B), M odule 2 (Area A), and Module 3 prior to enrolling in 300- or 400-level economics courses.

A no economics course may be taken Pass/No Pass (regardless of the student's college) without special permission of the instructor and departmental chair. If permitted however, the course may only be used as a business elective (Module 6) in the program.

All 800- and 900-level courses are open only to graduate students. Refer to the Graduate Bulletin for 900-level courses.

General Economics and Theory

[ES] 210 Introduction to Economics (5 cr) Prereq: Sophomore standing and above. Recommended for students outside the College of Business Administration but not for economics majors in the College of Arts and Sciences. Students taking ECON 210 cannot earn credit for ECON 211 and 212. Principles which govern the organization and behavior of modern economic systems. Includes the nature of economics and economic systems; national income; inflation and unemployment; measurement and determination; money, monetary and fiscal policies; economic growth; the allocation of economic resources; behavior of consumers and producers in markets; the distribution of income; and the international economy.

[ES] 211 (210) Principles of Microeconomics (3 cr) Prereq: Sophomore standing. Required for the College of Business Administration major and for Arts and Sciences economics majors. Credit towards degree cannot be earned in both ECON 210 and in ECON 211 and/or 212. Introduction to the nature and methods of economics. Includes economic systems, measurement and analysis of aggregate variables, such as national income, consumption, saving, investment, international payments, employment, price indices, money supply, and interest rates. Fiscal, monetary and other policies for macroeconomic stabilization and growth are evaluated.

[ES] 212 (212x) Principles of Microeconomics (3 cr) Prereq: Sophomore standing. Required for College of Business Administration major and for Arts and Sciences economics majors. Credit towards degree cannot be earned in both ECON 210 and in ECON 211 and/or 212. Continuation of an introduction to economic methods with emphasis on analysis and evaluation of market structures, demand, supply, elasticity, production costs, consumption utility, monopoly, competition, monopolistic competition, oligopoly, allocative and technical efficiency, and income distribution. Analysis applied to resource markets, antitrust laws, agriculture, international trade, and to other economic problems and policies.

311. Intermediate Macroeconomics (3 cr) Prereq: ECON 211 and/or ECON 215 or equivalent; MATH 104 or equivalent. Extension and elaboration of the theories of aggregate productivity, consumption, savings, investment, and international trade and finance. Detailed analyses of aggregate demand and supply and applications to inflation and unemployment. Various models of a market economy’s performance, and analyses of monetary and fiscal policies for macroeconomic stabilization and growth.

312. Intermediate Microeconomics (3 cr) Prereq: ECON 211 and/or ECON 215 or equivalent; MATH 104 or equivalent. Extension and elaboration of the economic theories of the behavior of producers, consumers, and markets. Applications include analyses of taxation, rationing and other government policies, price discrimination, cartels, unions, and international markets.

389. Current Economic Issues (3 cr) Prereq: ECON 210, or both 211 and 212, for juniors only. Critical analysis of economic issues based upon readings of current and historical importance. (Possible illustrative topics include pollution, discrimination, poverty, energy, agribusiness, health, demographics, ideology, and crime.)


433’/833. History of Economic Thought (3 cr) Development and evolution of economic ideas, including diverse mainstream and dissenting schools of thought from ancient Greece to contemporary texts. Consideration of selected influential economists’ writings, relation between economic conditions and ideas and the antecedents of current economic controversies.

873. Microeconomic Models and Applications (ECON 873) (3 cr) Prereq: ECON 211 and 212. Course is intended for M A option II students and others who do not plan to proceed to PhD studies.

874. Macroeconomic Models and Applications (3 cr) Prereq: ECON 211, 212, and 213. This course is intended for M A option II students and others who do not plan to proceed to PhD studies.

Comparative International and Regional Development

322. Introduction to Development Economics (3 cr) Prereq: ECON 210 or 211. Survey of economic problems of developing countries and of appropriate policies to foster economic progress. Discussion of the roles of education, research, innovation, saving, and capital formation in the growth process.

323. The Economic Development of Latin America (3 cr) Prereq: ECON 210 or 211. Description of the economies of Latin America, with emphasis on current economic problems. How past development contributed to the present economic situation. Detailed analysis of the economies and recent economic policies using standard microeconomic and macroeconomic models.

340. Introduction to Urban-Regional Economics (3 cr) Prereq: ECON 210, or both 211 and 212. Analysis of reasons for the existence, size, location, and evolution of cities. Analysis of the location of economic activity; differences in regional growth patterns; downtown revitalization, slums, congestion, and state economic development.
changing perceptions of women's role in society. Role of

Transformation of women's role in the US economy from

primary and secondary school.

and sequence for development of economic concepts in the

employment, stable prices, economic growth, and security.

in achieving goals of efficient allocation of resources, full

450/850. Economics for Teachers

Also see courses in Quantitative Economics.

and time series data are considered.

prediction and problems in analyzing economic cross-section

including economic model estimation and analyses of

students an introduction to basic econometric methods

417/817. Introductory Econometrics

students with an interest in international relations.

482. Labor in the National Economy (3 cr) Prereq: ECON 210, or both 211 and 212.

Macroeconomics aspects of labor economics how the labor

sector of the economy and the economy's overall performance are

interrelated; analysis of the general level of wages, employ-

ment, business cycles, rational expectations, fiscal policy,

international trade and economic

and strategies relating to international trade and economic development.

440. Regional Development (3 cr) Prereq: ECON 210, or both 211 and 212.

Advanced analysis of regional growth and development.

Emphasis on the relationship between national and regional
growth as well as local attributes influencing development patterns.

Comparisons between developing and developed countries used to highlight similarities and differences in development patterns and policies. Empirical applicability of regional economic models stressed.

442. Regional Analysis (3 cr) Prereq: ECON 440/840.

Advanced study of techniques for regional analysis. Includes

index of spatial dispersion and concentration, state and region

analysis, export base, and input-output analysis. Emphasis on

input-output analysis O objective is to equip students with the

basic analytical tools of regional economic analysis.

469/866. Pro-seminar in International Relations I

(AECN 469/869 GEOG 446/846; ECON 468/866; POLS 50, SCI 466/866) (3 cr) Prereq: Permission. Open to

students with an interest in international relations.

For course description, see POLS 466/866.

467/867. Pro-seminar in International Relations II

POLS 467/867) (3 cr) Prereq: Permission. Open to

students with an interest in international relations.

For course description, see POLS 467/867.

Industrial Organization and

Regulation

426/826. Government Intervention in Markets (3 cr)

Trace the economic and legal incentives for government

involvement in the marketplace. Examine why various forms

of intervention make sense in certain situations. Attention to

defining the limits of allowable competition, and to replacing

free market forces with regulation. Analysis of utilities and

their evolving regulation.

435/835. Market Competition (3 cr) Prereq: ECON 211

Examination of differing schools of thought about how well a

market economy performs. Includes economic analysis and

extensive reviews of rivalry among corporations in various

sectors of the US economy.

Also see the following economics courses:

ECON 457/857. US Economic History

ECON 458/858. US Economic History

ECON 472/872. Efficiency in Government

ECON 487/887. Economics in Transition

ECON 900. Seminar in Economic Theory & Policy

Institutional Economics

475/875. Theory and Analysis of Institutional Economics (3 cr)

Survey of the basic ideas of Veblen, Polanyi, Commons, Ayres, Galbraith, and Myrdal. Applications of institutional analysis to the economic system as part of the holistic human culture, a complex of many evolving institutions.

International Trade and Finance

421. Introduction to International Economics (3 cr) Prereq: ECON 292 or both 211 and 212.

Intermediate survey of international trade and factor move-

ments: balance of payments commercial policy; economic

integration; international monetary system and institutions;

exchange rates and open economy macroeconomics.

422/821. International Trade (3 cr) Prereq: ECON 210, or both 211 and 212; ECON 312.

Determinants of the volume, prices, and commodity compo-

sition of trade. Effects of trade, international resource move-

ments, trade restrictions on resource allocation, income
distribution, and social welfare.

422/822. International Finance (3 cr) Prereq: ECON 210, or both 211 and 212.

Determinants of the volume, prices, and commodity compo-

sition of trade. Effects of trade, international resource move-

ments, trade restrictions on resource allocation, income
distribution, and social welfare.

For additional international courses, see Comparative International and Regional Development.

Labor Economics

381. Introduction to Labor Economics (3 cr) Prereq: ECON 210 or 211.

History and development of the American labor movement; trends and issues in collective bargaining; economic implica-

tions of labor unions.

Quantitative Economics

375/875. Women and Work in United States History (HIST 375) (3 cr)

Transformation of women’s role in the US economy from cel-

tral to the present and the effects of class, race, and

changing perceptions of women’s role in society. Role of

women in household manufacture, the early factory system,

the trade union movement, the Great Depression, the home

front of WW II, and the economic emergence of women in

the postwar economy.
Bank management and real estate courses are designed for the student in business administration who wishes to prepare for a career in the finance industry. International finance concentrates on the international aspects of corporate finance and financial institutions.

The study of investments is important for all students who wish to gain an understanding of the risks and rewards found in securities markets. For students both inside and outside the College of Business Administration, the personal finance course is very beneficial as a primer in personal investments and general financial skills. For the business administration students, the investments area, combined with other electives, offers college preparation for positions in the securities industry and in the investment and trust departments of financial institutions.

The study of risk management will help to prepare a student for positions in the insurance field, an important Nebraska industry. Interested students should consult their advisers or the department chair when selecting courses to meet their needs.

Finance Major Requirements

All course work, with the exception of FINA 399, must be taken for a grade (no Pass/No Pass).

The requirements for the major (M odule 5), in addition to the general College requirements, includes 21 hours of credit. While introductory Finance (FINA 361) can be taken in the sophomore year, the major courses are normally completed during the junior and senior year.

CAKBA students are also expected to have completed Module 0, Module 1 (Areas A and B), Module 2 (Area A), and Module 3 prior to enrolling in 300 or 400-level business courses.

No finance course may be taken Pass/No Pass, except 399. FINA 399 may be taken on a Pass/No Pass basis with the approval of the instructor and department chair.

The course, however, will only count as a business elective (M odule 6) in the program.

Finance Minor Requirements

The finance minor is available to College of Business Administration students only. A Finance course work used for this minor cannot be double counted toward business degree requirements (with the exception of business electives), major, or other business minor requirements.

To fulfill the requirements for a finance minor, students must complete twelve graded hours of finance course work (no Pass/No Pass) to include the following: FINA 363 and 365, plus 6 hours of 300/400-level finance course work, of which 3 hours must be at the 400 level. FINA 399 may not be used toward the minor.

Courses of Instruction (FINA)

All students enrolling in CBA courses are required to meet the prerequisites listed for each course, including any specific grade or GPA requirement. M odules I and II are designed to provide the finance course work in 300 or 400-level business courses. The only exceptions to this rule are LAW 371, FINA 361, M RT K 341, and M NG T / M IST 350, requiring sophomore status and other stated prerequisites.

CBA students are also expected to have completed M odule 0, M odule 1 (Areas A and B), M odule 2 (Area A), and M odule 3 prior to enrolling in 300 or 400-level business courses.

No finance course may be taken Pass/No Pass, except 399. FINA 399 may be taken on a Pass/No Pass basis with the approval of the instructor and department chair. The course, however, will only count as a business elective (M odule 6) in the program.

Finance

Banking, Finance, Investments, and Real Estate

Chair: Professor Gordon K aro

Professor: K aro, Peterson, Zorn

Associate Professor: D’ Fusco, Farrell, G orpe

Assistant Professor: D’ Fusco, F rien, L in, U lvu

The finance major allows a student to pursue the following areas of study: corporate finance, bank management, risk management and insurance, investments, international finance or real estate.

The basic course, FINA 361, (required of all students in the College), presents the institutional background, theory, and decision-making skills essential to an understanding of the finance function. This function, in organizations of all sizes, is concerned with the supply of funds and the best organizational use of those funds. A solid understanding of the finance function is becoming more essential in the management of public, private, and nonprofit organizations.


M ain modern procedures of decision making under conditions of uncertainty. Introduction to Bayesian methods which include the main methods of traditional statistics. Both prior knowledge and consequences of decision error are explicitly taken into account in the analysis.


Selected topics involving the use of quantitative methods in applied research.


Also see Econometrics area for additional courses in quantitative economics.

Research and Thesis

Seminar and research courses in specific fields are listed in their respective divisions.

17. Three hours of FINA 429 may be used for the student majoring in finance. The other 3 hours may be used only in Module 6 or 8.
The requirements for the international business major consist of 21 hours of credit in the following areas:

- 15 hours of approved international business course work
- 6 hours upper-level language (from one language) (M odule 5)
- study abroad component with a minimum of 3 hours of credit earned (M odule 1 through 8)

Because the nature of the major requires careful selection of course work to count for appropriate requirements (including IS requirements), students are strongly encouraged to consult with their advisor or a staff member in the Dean's Office for Undergraduate Programs. Integrative Studies (IS) course work must be done at UNL and the student should plan to count 15 credit in their major (M odule 5), who also plan to receive M odule 5 credit for study abroad, need to plan such that all necessary requirements are completed. For specific prerequisite requirements and concurrent registration options, refer to the individual course descriptions.

The requirements for the major include successful completion of the following:

**Module 5—International Business Major**

A minimum of 15 hours of international-related business course work must be taken (of which any may be used to satisfy the IBCR ), of which

- 9 hours must be at the 400 level
- courses must be selected from the following list
- a minimum of three departments must be represented

**International Business Major Requirements**

All course work for the major must be taken for a grade (no Pass/No Pass).

The requirements for the international business major (M odule 5), in addition to the general college requirements, consist of 21 hours of credit in the following areas:

- 15 hours of approved international business course work
- 6 hours upper-level language (from one language) (M odule 5)
- study abroad component with a minimum of 3 hours of credit earned (M odule 1 through 8)

Students in international business study the business practices of other nations and learn how international trade affects the world economy. A background in international business will help students become a better member of the management team of any corporation. From banks to manufacturing firms, an increasing number of industries need professionals who understand the world's business environment. Import and export firms, agricultural commodities firms, and government and non-government agencies may specifically seek international expertise. Students are encouraged to consult with advisors in the Dean's Office for Undergraduate Programs for the selection of appropriate courses to meet the requirements for the major.

**International Business**

Adviser: Assistant Dean D'vee Buss

Students in international business study the business practices of other nations and learn how international trade affects the world economy. A background in international business will help students become a better member of the management team of any corporation. From banks to manufacturing firms, an increasing number of industries need professionals who understand the world’s business environment. Import and export firms, agricultural commodities firms, and government and non-government agencies may specifically seek international expertise. Students are encouraged to consult with advisors in the Dean’s Office for Undergraduate Programs for the selection of appropriate courses to meet the requirements for the major.

**International Business Major Requirements**

All course work for the major must be taken for a grade (no Pass/No Pass).

The requirements for the international business major (M odule 5), in addition to the general college requirements, consist of 21 hours of credit in the following areas:

- 15 hours of approved international business course work
- 6 hours upper-level language (from one language) (M odule 5)
- study abroad component with a minimum of 3 hours of credit earned (M odule 1 through 8)

Because the nature of the major requires careful selection of course work to count for appropriate requirements (including IS requirements), students are strongly encouraged to consult with their advisor or a staff member in the Dean’s Office for Undergraduate Programs. Integrative Studies (IS) course work must be done at UNL and the student should plan to count 15 credit in their major (M odule 5), who also plan to receive M odule 5 credit for study abroad, need to plan such that all necessary requirements are completed. For specific prerequisite requirements and concurrent registration options, refer to the individual course descriptions.

The requirements for the major include successful completion of the following:

**Module 5—International Business Major**

A minimum of 15 hours of international-related business course work must be taken (of which any may be used to satisfy the IBCR), of which

- 9 hours must be at the 400 level
- courses must be selected from the following list
- a minimum of three departments must be represented

**International Business Major Requirements**

All course work for the major must be taken for a grade (no Pass/No Pass).

The requirements for the international business major consist of 21 hours of credit in the following areas:

- 15 hours of approved international business course work
- 6 hours upper-level language (from one language) (M odule 5)
- study abroad component with a minimum of 3 hours of credit earned (M odule 1 through 8)

Because the nature of the major requires careful selection of course work to count for appropriate requirements (including IS requirements), students are strongly encouraged to consult with their advisor or a staff member in the Dean’s Office for Undergraduate Programs. Integrative Studies (IS) course work must be done at UNL and the student should plan to count 15 credit in their major (M odule 5), who also plan to receive M odule 5 credit for study abroad, need to plan such that all necessary requirements are completed. For specific prerequisite requirements and concurrent registration options, refer to the individual course descriptions.

The requirements for the major include successful completion of the following:

**Module 5—International Business Major**

A minimum of 15 hours of international-related business course work must be taken (of which any may be used to satisfy the IBCR), of which

- 9 hours must be at the 400 level
- courses must be selected from the following list
- a minimum of three departments must be represented

**International Business Major Requirements**

All course work for the major must be taken for a grade (no Pass/No Pass).

The requirements for the international business major consist of 21 hours of credit in the following areas:

- 15 hours of approved international business course work
- 6 hours upper-level language (from one language) (M odule 5)
- study abroad component with a minimum of 3 hours of credit earned (M odule 1 through 8)

Because the nature of the major requires careful selection of course work to count for appropriate requirements (including IS requirements), students are strongly encouraged to consult with their advisor or a staff member in the Dean’s Office for Undergraduate Programs. Integrative Studies (IS) course work must be done at UNL and the student should plan to count 15 credit in their major (M odule 5), who also plan to receive M odule 5 credit for study abroad, need to plan such that all necessary requirements are completed. For specific prerequisite requirements and concurrent registration options, refer to the individual course descriptions.

The requirements for the major include successful completion of the following:

**Module 5—International Business Major**

A minimum of 15 hours of international-related business course work must be taken (of which any may be used to satisfy the IBCR), of which

- 9 hours must be at the 400 level
- courses must be selected from the following list
- a minimum of three departments must be represented
Module 5—Language

In addition to the business courses required for the major, international business majors may also complete 6 hours of upper-level language courses. The courses selected for the language must be advanced, from one language, and include one complete sequence (one year), regardless of a student’s point of entrance with previous language instruction. Students must select one of the following to satisfy this requirement.

Option 1: A minimum of 6 hours in one language, choosing from courses offered at the third-year level or above in the following languages: Czech, French, German, Japanese, Russian, or Spanish. All lectures and readings must be conducted in the chosen foreign language for the courses to qualify. Independent study and special topic classes may not be used for this purpose, unless pre-approved for the acceptance of study abroad credit.

Option 2: For international students pursuing an international business major, choose one of the above options (other than their native language and other than a language in which they are fluent) or complete 6 hours of English with 3 hours at the 300 level or above.

The language courses completed for the major may also be used toward a possible minor. The hours, however, may not also be used to fulfill Module 1 or 2 requirements.

Module 1—Study Abroad Requirement

In addition to completing course work required for the major, students majoring in International Business are also required to participate in a UNL sponsored study abroad experience. This must be completed while you are in college and requires a minimum of 3 hours of UNL sponsored or approved study abroad credit.

You are encouraged to begin thinking about your plans to study abroad during your freshman year by visiting with the advising office staff, and representatives of International Affairs. University of Nebraska-Lincoln (UNL) sponsored study abroad experience should be done sometime in the junior or senior year. The Advising Office will work with you to outline how your study abroad courses will fulfill requirements for your program.

International Business Minor Requirements

The international business minor is available to College of Business Administration students only. Course work used for this minor cannot be double counted toward business degree requirements (with the exception of business electives), major, or other business degree requirements.

To fulfill the requirements for an international business minor, students must complete twelve graded hours of business course work (no Pass/No Pass) from the “M” odule 5—International Business Minor* on page 237. No more than 6 hours from one department will be allowed to fulfill the international business minor requirement.

Management


Chair: Professor Sang M. Lee
Professors: Avolio, Dignan, S. Lee, Luthans, Olson, Schniederjans, Shiau
Associate Professors: Nadjami, Nah, Sebora, Swinnen
Assistant Professors: Combs, Jones, Trimi, West

The management major program is designed to help the student develop a conceptual and analytical framework, basic to the effective management of businesses and other organizations. The suggested electives in the human resources management track are especially relevant for those individuals who desire career fields in personnel administration, labor relations, organization development, and related fields. The suggested electives in systems and operations management are especially relevant for those individuals who desire career fields in production and operations management, information systems, and related fields. Students should consult their advisers or a faculty member in management when selecting management electives.

Management Major Requirements

All course work for the major must be taken for a grade (no Pass/No Pass). Given the major courses are completed during the junior and senior year, CBA students are also expected to complete the following general college course requirements before enrolling in the major course work. It is suggested that you begin your language and culture courses your freshman year as well. Your upper-level course work and study abroad experience should be done sometime in the junior or senior year. The Advising Office will work with you to outline how your study abroad courses will fulfill requirements for your program.

Human Resource Emphasis

Students who wish to emphasize human resource management for the major are encouraged, but not required, to choose their seven management elective (M odule 5) courses from the following list:

- M NGT 462. Labor Relations
- M NGT 463. Compensation Management
- M NGT 465. Organizational Theory & Behavior
- M NGT 466. Government & Labor
- M NGT 467. Leadership in Organizations

Any students choose to pursue an emphasis in one of four areas of management, although it is not noted on the transcript or diploma. The major will be listed as “management,” regardless of the emphasis pursued.

Entrepreneurship Emphasis

Students who wish to emphasize entrepreneurship for the major are encouraged, but not required, to choose their seven management elective (M odule 5) courses from the following list:

- M NGT/ENTR 321. Business Plan Development
- M NGT/ENTR 421. Entrepreneurship & Venture Management
- M NGT/ENTR 422. Small Business Management

18. A maximum of three IS courses (from 245, 320, 360H, 365, 421, 428, 461, 462, 464, 465, 467) may be used to fulfill the IS requirement of the College. In addition, M NGT 428 may be used to fulfill the IB CR.

19. Three hours of M NGT 429 may be used for the student majoring in management. The other 3 hours may be used only for M odule 6 elective credit.
### Management Information Systems Emphasis

- Students who wish to emphasize management information systems and operations management for the major are encouraged, but not required, to choose their seven management elective (M odule 5) courses from the following list:
  - MGNT 250. Business Programming
  - MGNT 431. Enterprise Management Systems
  - MGNT 437. Computer-Aided Analysis in Decision Making
  - MGNT 441. Topics in Management Science for Deterministic Systems
  - MGNT 442. Topics in Management Science for Stochastic Systems
  - MGNT/MIST 454. Data Organization & Management
  - MGNT/MIST 456. Object-Oriented Systems Development
  - MGNT/MIST 457. Business Data Communications

### Management Minor Requirements

- The management minor is available to College of Business Administration students only. Management coursework used for this minor cannot be double counted toward business degree requirements (with the exception of business electives, major, or other business minor requirements).
- To fulfill the requirements for a management minor, students must complete twelve graded credits from the following courses:
  - ACCT 306. Intermediate Accounting
  - MGNT 345. Marketing Research
  - MGNT 346. Marketing Channels Management
  - MGNT 347. Consumer Behavior
  - MGNT 442. Small Business Management
  - MGNT 443. Consumer Behavior
  - MGNT 444. Logistics
  - MGNT 465. Organization Theory & Behavior
  - MGNT 467. Leadership in Organizations

### Courses of Instruction (MGNT)

- All students enrolling in CBA courses are required to meet the prerequisites listed for each course, including any specific grade or GPA requirement, to include junior standing for enrollment in 300- or 400-level business courses.
- CBA students are also expected to have completed M odule 0, 1 (Areas A & B), 2 (Area C), and M odule 3 prior to enrolling in 300- or 400-level business courses.
- N o management course may be taken Pass/No Pass except M GNT 398 and 399. M GNT 398 may be taken on a Pass/No Pass basis with the approval of the instructor and department chair. M GNT 398 and 399 will count only as business electives (M odule 6 or 8) in the program, with the exception of 398, taken as part of the Pan Pacific Study Tour (for a grade).
- M GNT 475 is the capstone course for the College of Business Administration. This course is not to be taken until your final year in the program. A ll prerequisites for the course must be completed prior to enrollment. This course is open to CBA students only.
- All 800- and 900-level courses are open only to graduate students.
Introduction to the field of Personnel/Human Resource Management. Preparation for performance improvement and organizational change and development.

Introduction to the field of Personnel/Human Resource Management. Preparation for performance improvement and organizational change and development.

[IS] 365. Managing Diversity in Organizations (3 cr) Prereq: Good standing in the University Honors Program or by invitation; major in the College of Business Administration; GPA: 2.5 GPA; ACCT 201 or 306; ECON 211 or 212; ECON 210 or 215 or STAT 218. Prereq for actuarial science. J. D. Edwards Program and Actuarial Science: Plan Major Refers to exceptions for nonmajors. Honors students have the opportunity to have in-depth discussions on readings from additional articles and chapters from a supplementary text. The foundation and application of organizational behavior. Perspective for the foundations and the theoretical framework for human behavior in organizations. Micro (perception, personality and attitudes, motivation, and learning) interactive (group dynamics, conflict, stress, power and politics, and leadership) macro- (communication, decision making, organizational theory and design, and organizational culture) levels of analysis. Applications for performance improvement and organizational change and development.

Introduction to the field of Personnel/Human Resource Management. Preparation for performance improvement and organizational change and development.

[IS] 369. Honors Independent Study (3-6 cr, max. 12) Ind. Prereq: Good standing in the University Honors Program or by invitation; major in the College of Business Administration; GPA: 2.5 GPA; ACCT 201 or 306; ECON 211 or 212; ECON 210 or 215 or STAT 218. Prereq for actuarial science. J. D. Edwards Program and Actuarial Science: Plan Major Refers to exceptions for nonmajors. Honors students have the opportunity to have in-depth discussions on readings from additional articles and chapters from a supplementary text. The foundation and application of organizational behavior. Perspective for the foundations and the theoretical framework for human behavior in organizations. Micro (perception, personality and attitudes, motivation, and learning) interactive (group dynamics, conflict, stress, power and politics, and leadership) macro- (communication, decision making, organizational theory and design, and organizational culture) levels of analysis. Applications for performance improvement and organizational change and development.

Entrepreneurship (ENTR)

[IS] 421. Entrepreneurship and Venture Management (ENTR 421) (3 cr) Prereq: Senior standing; ACCT 201 and 202, or 306; FINA 361; MGMT 331 and 360; MRKT 341. For course description, see ENT 421.

[IS] 422. Small Business Management (ENTR 422) (3 cr) Prereq: Senior standing; ACCT 201 and 202, or 306; FINA 361; MGMT 331 and 360; MRKT 341. For course description, see ENT 422.

[IS] 423. Small Business Growth and Development (ENTR 423) (4 cr) Prereq: Senior standing; ACCT 201 and 202, or 306; FINA 361; MGMT 331 and 360; MRKT 341. For course description, see ENT 423.

[IS][IS] 428/828 (42Lx). International Management (3 cr) Prereq: MGMT 360. Taught from the perspective of U.S. enterprises operating in the global economy. The manner in which cultural, economic, political, and social differences affect the management of business, governmental, military, and other enterprises is considered. Emphasis on problems of managing in Latin America, Europe, and Asia.

[IS] 429. Undergraduate Seminar in Japanese Business (3 cr) Prereq: May apply only if 5 hours towards satisfying the requirements for their major. The portion of this course will be offered in English only by the faculty of the College of Business of Shinshu University, Toki, Japan. Japanese business is examined within the five functional areas: accounting, economics, finance, management, and marketing. Historical perspective and current practices are emphasized. Strong academic, ethical, and communicative skills are expected. Business people and civil servants Plant and office visits required.

[ES][IS] 430/830. Organization Theory and Behavior (3 cr) Prereq: MGMT 360 or ECON 381. An interdisciplinary approach to the design, planning, and control of operations management systems, including domestic and international, manufacturing and service operations.

[ES][IS] 437/837. Computer-Aided Analysis in Decision Making (3 cr) Prereq: Senior standing; ACCT 201 and MGMT 360; MGMT 331. Analytical and simulation models for decision making in functional areas such as accounting, marketing, operations, and inventory. Construction of decision models for practical applications. Emphasis on analyzing alternatives and implementing solutions that require increased productivity.

[IS] 442/842. Topics in Management Science for Stochastic Systems (3 cr) Prereq: Senior standing; ACCT 201 and MGMT 360; MGMT 331. Selected topics in operations research and/or management science. Techniques for analysis of decision making and optimization. Applications of the techniques to real-life organizational problems. Linear programming, non-linear programming, dynamic programming, network analysis, and/or other deterministic topics.


[IS] 455. Mobile and Ubiquitous Commerce (MIST 455/855) (3 cr) Prereq: MIST/MGMT 330. The impact of wireless and mobile technology on the way in which business is conducted and the strategic implications of wireless applications in organizations.


[IS] 458/858. Electronic Business (MIST 458/858) (3 cr) Prereq: MIST/MGMT 360. For course description, see MIST 458/858.


[IS] 462/862. Labor Relations (3 cr) Prereq: Junior standing; MGMT 360 or ECON 381. Interdisciplinary approach to labor-management relations with emphasis on collective bargaining and grievance administration. A preceptor of collective bargaining process gained through actual negotiating of a labor-management contract. On-going union-management relationships explored.

[ES] 463/863. Compensation Administration (3 cr) Prereq: Junior standing and MGMT 360. Design and administration of compensation systems. Deals with determination of general level of pay, pay structures, wage and salary surveys, job analysis, job evaluation, performance evaluation, benefit plans, and financial incentive systems.

[ES] 464/864. Human Resource Planning (3 cr) Prereq: MGMT 360 or ECON 381. An interdisciplinary approach to the design, planning, and control of operations management systems, including domestic and international, manufacturing and service operations.
Management Information Systems and Technology (MIST)

Fundamental concepts in computing and programming in business. A programming language is chosen based on the ease of learning and its acceptance in the business community; e.g., Visual Basic, JAVA, XLM, etc.

Data and information as important resources to be managed in modern organizations. The role of information systems in organizations and how they relate to organizational objectives and organizational structure. Basic information system concepts, information flows, uses, relationships and problems. Interaction with information specialists to gain understanding of management issues related to computerized information systems, information systems and business decisions.

Database technology and related human and managerial considerations. Databases from two perspectives: the logical view, as the manager and applications programmer see and use the organization's data; and the physical view, as the systems software programmers and database manager view the data. Theory on database organization and the practical applications of databases.

Methods and methodologies used in systems analysis, design, and implementation. Decision-making process: systems development life cycles; requirement analysis; logical and/or conceptual design; and basic database concepts.

For course description, see M N G T 455/855.

Object-orientation as an approach to developing information systems. Analysis, design and implementation of systems development from the object-oriented perspective. Concepts in object-oriented programming and object-oriented methodology and methodologies.

Fundamentals of business data communications, networking hardware and software, communication protocols such as TCP/IP, Internet and electronic commerce.


Marketing Information Systems (M N G T/M I S T 350) (3 cr) Prereq: Senior standing; A C C T 201 and 202, or 206; F I N A 361; M N G T 331 and 360; M R K T 341.
Small businesses and owner management. Directed toward understanding the process of creating and managing one's own business, whether new or acquired. Actual involvement in small businesses such as stores, specialty shops, and service businesses. Cares related to small businesses are used.

253. Business Growth and Development (M N G T 423/823) (3 cr) Prereq: Senior standing; A C C T 201 and 202, or 206; F I N A 361; M N G T 331 and 360; M R K T 341.
Financial, human resource, operations and marketing issues that face entrepreneurs whose businesses are confronted with significant growth potential or that have matured. Franchising, initial public offerings, succession and estate planning.

Marketing

Marketing, Marketing Communication, Distribution Channels, Retailing, Sales Management, Marketing Research, Sports Marketing, Consumer Behavior, and International Marketing

Chair: Professor Ron Hampton
Professors: Gentry, Grosbard, Sohi
Associate Professors: Ball, H, Hampton, Kennedy, Saini

The field of marketing includes many different career opportunities such as advertising, distribution, marketing research, merchandising, marketing communication, retailing, product management, sports marketing, professional selling, and sales management. The management of activities related to the flow of both goods and services from producer to consumer has become increasingly important in this age of consumer-oriented production. This importance has increased the demand for well-qualified persons, both as specialists in technical aspects of marketing and as general marketing managers. New developments are appearing in quantitative analysis of marketing problems, in studies of consumer behavior, in international marketing, and in the social responsibilities of marketing. These developments hold exciting promise for the future.

A cadienic preparation for some careers is best achieved by combining marketing courses with courses in other departments of the University. For this reason it is important for the student to consult with a faculty member in the Department of Marketing before deciding on a particular course of study. Outside the College, courses in psychology, sociology, journalism, mathematics, communication studies, art, and geography may be helpful.

Marketing Major Requirements

All courses, with the exception of M R K T 399, must be taken for a grade (no Pass/No Pass).

The requirements for the marketing major (M odule 5), in addition to the general college requirements, are comprised of 18 semester hours credit which must be completed in a specified sequence of courses. Students are strongly encouraged to consult with their academic advisor to properly plan course schedules to minimize potential problems and maximize the benefits of their marketing education. For specific prerequisite requirements and concurrent registration options, contact the Department of Marketing.

Given the major courses are completed during the junior and senior year, CBA students are also expected to have completed the following general college requirements before enrolling in the major course work: Module 0, Module 1 (Area A and B), Module 2 (Area A), and all M odule 3 course work.

As part of the general college requirements, marketing majors may substitute M R K T 350 for the M N G T /M I S T 350 requirement in M odule 4.

The requirements for the major (M odule 5), in addition to the general college requirements, include successful completion of the following courses:

M R K T 345, M arket Research or M R K T 350
M arket Information Systems (if not selected for M odule 4)
M R K T 364, M arket Channels Management or M R K T 347, M arket Communication Strategy
M R K T 442, M arket Management

To complete the requirements for a marketing major, the student must take a minimum of 9 additional hours of marketing selected from the following courses:

M R K T 346, M arket Channels Management (3 cr)
M R K T 347, M arket Communication Strategy (3 cr)
M R K T 350, M arket Information Systems (3 cr)
M R K T 342, Retailing Management (3 cr)
M R K T 428, Sports Marketing (3 cr)
M R K T 441, M arket & Electronic Commerce (3 cr)
M R K T 443, Consumer Behavior (3 cr)
M R K T 444, Logistics (3 cr)
M R K T 446, Quantitative Analysis in Marketing (3 cr)
M R K T 449, M arket Communication Campaigns (3 cr)
M R K T 450, S trategic Database Marketing (3 cr)
M R K T 453, International Marketing (3 cr)
M R K T 458, Sales Management (3 cr)
M R K T 490, Special Topics in M arket (3 cr, max 6)

Note that although one of M R K T 346 and 347 and one of M R K T 345 or 350 is required, a student may elect to take all, two as required and the other two as part of the 9 hours of marketing electives. The marketing curriculum specifies that M R K T 442 be deferred until M R K T 341, 345, or 350, and either 346 or 347 have been completed. M R K T 399 (Special Project) may not be counted toward the major. Students participating in the Pan Pacific Study Tour may use the approved Study Tour courses (M N G T 398 and BSAD 491) as 6 hours of marketing electives for the major.

Marketing majors may minor in textiles, clothing and design by choosing either a M erchandising Track or a M erchandising/Design Track.

Marketing students wishing a textiles, clothing and design minor in the Merchandising Track must take:

T X C D 206, Textiles (3 cr)
T X C D 213, M erchandising I: T extile & Apparel Industry (3 cr)
T X C D 313, M erchandising II: M erchandising B uying & Control (3 cr)

Select two courses from the following:

T X C D 405, Advanced Textiles (3 cr)
T X C D 407, H istory of Costume (3 cr)
T X C D 408, H istory of Textiles (3 cr)
T X C D 410, S ocio-Psychological A spects of Clothing (3 cr)
T X C D 413, M erchandising I: M erchandising D evelopment & S ourcing (3 cr)
M marketing students wishing a textiles clothing and design track of Merchandising/Design must take:
TCXD 141A. Visual Literacy Lab: Color (2 cr)
TCXD 141B. Visual Literacy Lab: Speculative Drawing (2 cr)
TCXD 143. Visual Literacy: Art & Design (2 cr)
TCXD 206. Textiles (3 cr)
TCXD 213. Merchandising I: Textile & Apparel Industry (3 cr)
TCXD 313. Merchandising II: Merchandise Buying & Control (3 cr)
TCXD 314. Visual Merchandising (3 cr)
TCXD 413. Merchandising III: Merchandise Development & Sourcing (3 cr)

In total, 15 hours of textiles clothing and design courses are required for the Merchandising Track, and 20 hours for Merchandising/Design.

Marketing students may choose to complete an emphasis in advertising. For a 12-hour emphasis in advertising, marketing majors should take the following:
JOUR 101. Principles of Mass Media (3 cr)
ADVT 251. Principles of Strategic Communication (3 cr) (Fall only)
ADVT 332. Principles & Promotional Writing (3 cr)
None of the following 3-credit 400-level courses:
ADVT 450. Public Relations/Technical Writing, Visual Dissemination & Media Networks (3 cr)
ADVT 451. Advertising & Public Relations Techniques (3 cr)
ADVT 484. Advertising Management (3 cr)
ADVT 488. Media Sales & Promotion (3 cr) or 498. Special Topics (1-4 cr, max 12)
JOUR 486. Mass Media Law (3 cr)
JOUR 487. Mass Media & Society (3 cr)

NOTE: JOUR 101 and ADVT 251 have no prerequisites. At least one of the two should be completed before ADVT 332.
ADVT 332 must be completed before any of the 400-level courses.
All other prerequisites are waived for marketing majors.

Marketing Minor Requirements
The marketing minor is available to College of Business Administration students only. Marketing course work used for this minor cannot be double counted toward business degree requirements with the exception of business electives, major, or other business minor requirements.
To fulfill the requirements for a marketing minor, students must complete twelve graded hours of 300/400-level marketing courses which may not be used toward the major (or major).

Courses of Instruction (MRKT)
All students enrolling in CBA courses are required to meet the prerequisites listed for each course, including any specific grade or GPA requirement, to include junior standing for enrollment in 300 or 400-level business courses. The only exceptions to this rule are BLAW 371, FINA 361, M RKT 341, and MMGT/MIST 350, requiring sophomore status and other stated prerequisites.

CBA students are also expected to have completed M odules 0, 1 (Area A & B), 2 (Area A), and Module 3 prior to enrolling in 300 or 400-level business courses.
Under an agreement between the College of Journalism and Mass Communications and the College of Business Administration:
- Students majoring in marketing may take advertising courses in the College of Journalism and Mass Communications if they have the necessary prerequisites and a minimum of a 2.0 grade point average.
- Students majoring in advertising in the College of Journalism and Mass Communications may take marketing courses if they meet the prerequisites for those courses.

No marketing course may be taken Pass/No Pass, except MRKT 399/M RKT 399, which counts toward the 18 hours of marketing required of marketing majors (or minors), may be taken on a Pass/No Pass basis with the approval of the instructor and the department chair.
The course, however, will count only as a business elective (Module 6) in the program.
All 800- and 900-level courses are open only to graduate students.

225. Agribusiness and Food Products Marketing (AECN 225) (3 cr) Lec 3. Prereq: AECN 141 or ECON 210 or 212. Pass/No Pass option not allowed for C S degree.
For course description, see AECN 225.

For course description, see AECN 235.

[ES] 341. [IS] 341x. Marketing (ABUS 341) (3 cr) Lec. 3. Prereq: Sophomore standing, ECON 211 and 212 or 210; 2.5 GPA. In addition to specific prerequisites listed, CBA students must also have completed the following courses or their equivalents: MATH 104/104H or 106/108H, MATH 120, COM 311; ACC 202 or 203, and 206; ECON 212 or STAT 218. Deans for actuarial science, J. Edwards Program, and agribusiness majors refer to exceptions for the requirements.
- The marketing system, its relations with the socioeconomic system, and the influences of each upon the other. The evolution and present structure of marketing institutions and processes. Customer attributes and behavioral characteristics, and how a marketing manager responds to these in the design of marketing strategies, using research, product development, pricing, distribution, and promotion.

[ES] 341H. Honors Marketing (2 cr) Lec 3. Prereq: Good standing in the University Honors Program by invitation; sophomore standing, ECON 211 and 212 or 210; 2.5 GPA. In addition to specific prerequisites listed, CBA students must also have completed the following courses or their equivalents BSA 150, ECON 210 or 212 or 211; 3.0 GPA or equivalent.

Introduction to methods and principles of investigation and analysis used in making marketing decisions from product development to channel decisions to advertising decisions. Planning studies, producing and analyzing data gathering, analyzing and interpreting data, reporting results.

Basic concepts used in analyzing marketing channels, identifies the issues of designing sound channels, the issues of managing them effectively, and evaluating their performance.

Role of communication in the marketing process: integration of advertising, personal selling, sales promotion, packaging, public relations, and legal impact. Emphasis on influence of marketing communication on consumer information processing and decision making processes: and determination and evaluation of marketing communication opportunities, objectives, messages, and effort.

[IS] 350. Marketing Information Systems (3 cr) Prereq: BSA 150 or equivalent. MRKT 341; and 2.5 GPA.
Strategic use of information systems for marketing objectives. Basic concepts in information systems, organization, and communication. Customer relationship management in Internet and non-Internet environments. Designing the databases and software, identifying market opportunities, developing targets, and evaluating promotional efforts using information systems.

399. Special Project (1-3 cr, max 3) Prereq: MRKT 341, and approval of study plan by faculty member. May be offered on a Pass/No Pass basis at the instructor's option.
For advanced undergraduates with demonstrated ability and special interests in marketing who wish to undertake an individual project under the direction of a faculty member.

399H. Honors Independent Study (1-6 cr, max 6) Ind.
Prereq: Good standing in the University Honors Program by invitation; permission of instructor and departmental chair.
Research project or reading program.

425. Retailing Management (3 cr) Prereq: MRKT 341.
Foundations and structure of retailing; role of the retailing executive; decision making in such problems as site selection, layout, organization, personnel policies, pricing, stock buying, pricing, promotion, credit, customer services, merchandise control, budgeting, and research.

428. Sports Marketing (3 cr) Prereq: MRKT 341 or permission.
Basic concepts and theories unique to sports marketing, review of the basic principles of marketing in the context of sports Framework provided for incorporation of unpredictable nature of the sports industry and exploration of the complex relationships between the elements of sports and marketing. Current research in the area of sports marketing: marketing of team sports, fan behavior, the marketing of services, college sports, and the globalization of sports.

429. Undergraduate Seminar in Japanese Business (6 cr) Prereq: All CBA students are also expected to have completed the following courses or their equivalents: BSA 150; ENGL 101/101H or 150/150H or 202/202H; ECON 215 or equivalent.
T his course may count only as a free elective for students majoring in Japanese.


[IS] 442. Marketing Management (3 cr) Lec 3. Prereq: Senior standing; MRKT major; MRKT 341; MRKT 345 or 350, MRKT 346 or 347.
Application of marketing principles to the solution of a wide variety of problems involving influence of the consumer, choice of channels, marketing legislation, and the management of merchandising, advertising, personal selling, sales promotion, pricing, and marketing research.

Application of behavioral science theories, concepts, methods, and research findings to understanding and prediction of consumer behavior as the basis of decision-making by marketing managers.

444. Logistics (3 cr) Prereq: MRKT 341.
Examination of physical distribution activities in the marketing mix from the viewpoints of both providers and users of components of logistics systems. Logistics problems concern to the marketing management and evaluation of place utility concepts, spatial relationships of markets, channel design, transportation modes, and inventory management.
446. Quantitative Analysis in Marketing (3 cr) Prereq: Senior standing; MRKT 341 and ECON 215 or equivalent. Introduction to the use of quantitative techniques in marketing analysis. Emphasis on understanding and evaluating the applicability of existing models to marketing decision problems in such areas of competitive strategy, marketing mix analysis, pricing, promotion, distribution, and product policy.

449. Marketing Communication Campaigns (3 cr) Prereq: MRKT 341 and 347. Managerial problems involved in the formulation, execution, and evaluation of marketing communication campaigns. Total marketing communication effort examined with particular emphasis on the potential role of marketing communication campaigns, audience identification, campaign objectives and messages, media strategy, and campaign evaluation. Case material dealing with campaigns for products, services, institutions, and political candidates.


453. International Marketing (3 cr) Prereq: 6 hrs marketing. Marketing problems of international business. Export marketing and domestic marketing of U.S. products abroad. Influence of international institutions, culture, stage of development, and geography; problems in terminology, product policy, promotion, distribution, research, pricing, and starting marketing operations.

458. Sales Management (3 cr) Prereq: MRKT 341. Problems of the sales executive in building, directing, and controlling a force of outside sales personnel. Sales forecasting, territory design, expense control. Dealer relationships, merchandising and promotional plans, sales policies.

490. Special Topics in Marketing (3 cr, max 6) Prereq: MRKT 341 and permission. Topic varies.

499H. Honors Thesis (3-6 cr) Prereq: Good standing in the University Honors Program or by invitation, and permission. Conduct a scholarly research project and write a University Honors Program or undergraduate thesis.

*821. Applied Marketing Research (3 cr) Prereq: GRBA 813 or equivalent, or permission.

*822. Survey of Buyer Behavior (3 cr) Prereq: GRBA 813 or equivalent, or permission.

*824. Advanced Quantitative Analysis in Marketing (3 cr) Prereq: GRBA 813 or equivalent, or permission.

*826. Services Marketing (3 cr) Prereq: GRBA 813 or equivalent, or permission.

*830. Strategic Issues in Marketing Communication (3 cr) Prereq: GRBA 813 or equivalent, or permission.

*835. Marketing Channels and Distribution (3 cr) Prereq: GRBA 813 or equivalent, or permission.

*855. Marketing and Globalization (3-6 cr) Prereq: GRBA 813 or equivalent, or permission.

899. Masters Thesis (6-10 cr) Refer to the Graduate Bulletin for 900-level courses.
College of Education and Human Sciences

Marjorie Kostelnik, Ph.D., Dean and Professor of Child, Youth and Family Studies
Deb Mullen, Ph.D., Associate Dean
L. James Walter, Ed.D., Associate Dean and Professor Teaching, Learning and Teacher Education
Thomas Wandzilak, Ph.D., Director of Field Experiences/Certification Officer, Student Services Center, and Associate Professor of Teaching, Learning and Teacher Education
James Cotter, M.S., Director of Advising, Student Services Center
David Van Horn, Ed.S., Director of Field Experiences

For additional information or questions contact the Dean's Office, 105 Home Economics Building, 402/472-2916 or the Dean's Office, 233 Mabel Lee Hall, 402/472-5400.

About the College

History and Tradition

The College of Education and Human Sciences was founded on August 18, 2004 by Teachers College and The College of Human Resources and Family Sciences with each founding college contributing extensive history and tradition. The College of Education and Human Sciences offers excellent educational advancement to both undergraduate and graduate students, serving approximately 2,300 undergraduates and 1,000 graduate students each year.

The College is a center for research and investigation. The products of these efforts are implemented in the instructional programs, in the development of curriculum, and in service to the total educational effort both within and outside the state of Nebraska. The College of Education and Human Sciences is dedicated to enhancing the lives of individuals, families, schools and communities and to strengthening the relationships among them.

Education courses first became a part of the University curriculum in 1895 with the organization of a Department of Education designed to prepare students for teaching careers. On Valentine’s Day, 1908, the Board of Regents established a Teachers College. Since that time, the College has been highly respected for its programs preparing teachers, administrators, and specialists for the education of children, youth and adults. The quality of these programs is reflected in outstanding educational leadership in communities across the state and the nation in teaching, administration, communication disorders, special education and educational psychology.

Human Sciences had its origins prior to the turn of the 20th century. The first courses in home economics at the University of Nebraska were offered in 1894. In 1898 a School of Domestic Science became part of what was then known as the Industrial College. After restructuring of the University in 1909, the Department of Home Economics continued for 60 years as a component of the College of Agriculture. It became a School of Home Economics in 1962. In 1970, with action from the Nebraska Legislature, the College of Home Economics with its own administration was created. To better reflect the diversity of programs in the College, the name of the College was changed in 1993 to Human Resources and Family Sciences.

Mission, Goals and Themes

Mission

The College of Education and Human Sciences is dedicated to enhancing the lives of individuals, families, schools and communities and to strengthening the relationships among them.

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Values

In pursuing our mission, the faculty, staff, students, and graduates of the College of Education and Human Sciences are guided by shared values that inform every aspect of our work. Specifically, we value:

- **Excellence** in all aspects of the life of the College;
- **Innovation, creativity, and curiosity** as we address the complex issues facing individuals, families, schools, and communities;
- **Respect for diverse people, ideas, voices, and perspectives**;
- **Multidisciplinary approaches to scholarship** that integrate teaching and learning, research, scholarship, and creative activity, outreach, and service;
- **Working together** to positively impact the lives of individuals, families, schools, and communities;
- **Partnering with people in the community** to support the mission and vision of the College of Education and Human Sciences;
- **Emphasizing the creation of new knowledge and its application** to human and community needs thereby combining the strengths of a research and a land-grant university.
Signature Themes
Four signature themes characterize our work:
Our first commitment is to remain people focused. By understanding the depth and breadth of human life we can affirm and support the efforts of individuals, families, schools and communities. We are strengths focused. Starting with ourselves and extending to our view of others, we look for positive potential. We believe this yields the best possible outcomes. We adhere to a systems perspective. We understand that all action occurs within a context that is larger than any single individual or circumstance, and our obligation is to recognize and respond to the system. We are professionals whose work is characterized by ethical, evidence-based decision making. We understand and value both qualitative and quantitative inquiry as appropriate forms for gathering and interpreting data.

Accreditation
A accreditation helps to ensure that graduates of these programs have had formal preparation that meets nationally accepted standards of quality and relevance.

Education
Programs of study in education are fully accredited by the National Council for Accreditation of Teacher Education (NCATE).

Human Sciences
All baccalaureate degree programs in the Human Sciences are accredited by the American Association of Family and Consumer Sciences (AAFCS). Nationally, only a small number of schools offering undergraduate programs in child, youth, and family studies meet the high standards set by AAFCS for program accreditation. This accreditation requires a commitment to self-regulation and peer evaluation.

The Human Sciences programs of study offered by the College of Education and Human Sciences are the only programs in the State of Nebraska accredited by AAFCS.

Culinary Science (Culinology®)
The program in culinary science has been approved by the Research Chefs Association.

Dietetics
The UNL dietetics program meets the current academic requirements (Didactic Program in Dietetics) of the American Dietetics Association. As approved programs, students are eligible to take the registration examination upon completion of the experience requirements.

Merchandising
The program in merchandising has been approved by the American Collegiate Retail Association.

Individual Certification
The College offers course work leading to a certification in family life education. Graduates will need to apply for certification and take the appropriate examination.

Faculty
The College has 137 tenured and tenure-track faculty members who hold doctor of philosophy or doctor of education degrees from accredited universities. Faculty in the College are committed to academic research and outreach to the people of Nebraska and the nation. Excellence in teaching and a commitment to students is highly regarded among faculty and many have received outstanding teaching and advising awards from the College and the University.

Faculty members keep abreast of changes within their specialized areas by engaging in research which is widely published. Many are active in national and international professional groups and report their research at these meetings and provide leadership in those organizations.

Over half of the faculty are editors or serve on editorial boards of scholarly journals. With a commitment to teaching, research, and service, College of Education and Human Sciences faculty are annual recipients of national, regional, and University teaching awards including the Contributions to Students awards presented each year by the University of Nebraska Parent Association.

Community Outreach, Centers and Special Programs
The outreach and research activities conducted by the College enhance its undergraduate program and are designed to strengthen Nebraska families and communities. Programs, services, and research are conducted by the College through the following centers and special programs.

Barclay Center Speech-Language and Hearing Clinic
The Speech-Language and Hearing Clinic provides assessment and treatment services for all types of speech and hearing disorders. Clients range in age from infants to geriatrics and include a variety of disorders in areas such as phonology, language, voice, stuttering, hearing, aphasia, cleft palate, and motor speech disorders. Interdisciplinary assessments are available for most suspected developmental and academic learning problems for individuals of all ages. The Clinic accepts insurance, Medicaid, and Medi-aid and provides reduced fees based upon need. The Speech-Language and Hearing Clinic provides practical experiences for graduate students enrolled in speech-language pathology and audiology programs, and serves as a practicum site for students in fields such as education of the hearing impaired, human development, special education and educational psychology.

Buros Center for Testing
The Buros Center for Testing is an integral part of the Department of Educational Psychology within UNL’s College of Education and Human Sciences. The Center is composed of both the Buros Institute of Mental Measurements (publisher of the Mental Measurements Yearbook, Tests in Print, and Test Reviews Online) and the Buros Institute for Assessment Consultation and Outreach. The Buros Center for Testing provides assessment, and professional consultation to governmental agencies, public schools, and individuals and preparing the Mental Measurements Yearbook Database.

Center for At-Risk Children’s Services
The Center for At-Risk Children’s Services is a research center housed within the Department of Special Education and Communication Disorders. The Center is comprised of a team of experienced professionals committed to evaluating and developing services for children, families and communities.

Center for Instructional Innovation
The Center for Instructional Innovation was created in 1993 to study the role of language, technology, and thought in education. Among its several current projects are Summer Explorers, an inquiry-based project for inner-city students that combines science and literacy development, the Academy for Reflective Teaching, a professional development experience for teachers and the Assistive Technology Project, a national survey of assistive technology. The Center also provides technical assistance for activities involving educational and technological innovation and presently serves as evaluator for major projects funded by the National Science Foundation, the Environmental Protection Agency, the Satellite Educational Resources Consortium, and the USDA Corporation.

Cooperative Extension
The Smith-Lever Act of Congress passed in 1914 established Cooperative Extension as an arm of the land-grant college system to provide educational programs for persons not enrolled in the land-grant college. Extension is found throughout the state in 83 county offices that serve all 93 counties at five research and extension centers at Scottsbluff, North Platte, Clay Center, North Dakota, and on the flagship Lincoln campus. Since its beginning, extension has delivered research-based knowledge to people through direct teaching methods. But today extension also uses exciting new technology such as satellite conferencing and Internet video streaming to link people with information of value to them. The complexities of contemporary living and working are reflected in constantly evolving program priority areas in which extension works: agricultural profitability and sustainability; children, youth and families community and leadership development; food safety, health and wellness; and natural resources and environment.

Family Resource Center
Therapy for individual, couple and family problems is offered to students, staff, and faculty of the College of Education and Human Sciences. Treatment is confidential, affordable, and meets the highest standards of quality in the field. Services are provided by advanced graduate students in the Marriage and Family Therapy program who are closely supervised by clinical faculty members, each of whom is licensed in the State of Nebraska and has met the qualifications of being an Approved Supervisor. Assessment and treatment focuses on client strengths and existing resources. The student rate for counseling is $10 per 50-minute session. The center is located on the UNL East Campus. An appointment can be scheduled by calling 472-5033.
International Quilt Study Center

Approved by the University of Nebraska Board of Regents on June 23, 1997, the International Quilt Study Center encourages interdisciplinary study of all aspects of quilt making traditions and fosters preservation of this tradition through collection, conservation, and exhibition of quilts and related materials. The center arose from significant interest and resources available at the University of Nebraska for the study and exhibition of textiles. This unique combination of resources and the welcoming attitude toward textile study helped convince Robert and Ardis James that Nebraska was the right institution to serve as home for their collection of antique and contemporary quilts.

Individuals who arrive to study will find available to them the world's largest publicly-owned quilt collection. The center's Ardis and Robert James Collection contains examples representing the history of quilt making in the United States. It includes quilts dating from the late 1700's to the 1990's made in the United States, Europe, and Japan.

For additional information, visit the center's Web site at quilts.unl.edu.

Nebraska Center for Research on Children, Youth, Families, and Schools

The Nebraska Center for Research on Children, Youth, Families, and Schools is leading an interdisciplinary research effort to find optimal ways to promote the intellectual, socio-emotional, and behavioral adjustment of children and youth.

Ruth Staples Laboratory Program

The Ruth Staples Child Development Laboratory provides developmental programs for young children which involve students in child, youth, and family studies as well as other departments of the University of Nebraska. Serving both teacher training and research functions at undergraduate and graduate levels, the laboratory offers students and researchers opportunities for observation and study of children through its nursery school program and its day-care center.

Scholarships and Fellowships

In addition to the scholarships awarded by the University, the College of Education and Human Sciences awards a number of scholarships funded by various donors—individuals, organizations, and foundations. Criteria for awarding these scholarships vary to meet the wishes of the donors but often include financial need, academic performance, major area of study, and class standing.

Scholarships which vary in amount are awarded annually to incoming first-time, transfer and continuing College of Education and Human Sciences students. Continuing students should complete, annually, the scholarship application through the University of Nebraska Office of Scholarships and Financial Aid. Some scholarships require completion of a college application form. Students should complete the college scholarship applications which are available on the Internet at https://scholarships.unl.edu and are due in February. Further information is available in the Student Services Center, 104 Henzlik Hall.

Academic Advising

The College of Education and Human Sciences Student Services Center is staffed with professional advisors who assist students with assessing educational goals, planning programs of study, understanding program requirements and knowing policies and procedures. As course selection and registration are critical to the timely completion of their academic goals, students are well advised to seek regular academic counseling from their assigned advisers in the Center to obtain the most up-to-date information regarding current requirements and timely completion of degree programs. The Center is also staffed with professionals to coordinate field placements, student teaching and teaching certificate application.

Ultimately, students are themselves responsible for fulfilling all the requirements of the curriculum in which they are enrolled. The intellectual mentoring relationship between academic adviser and student is protected by confidentiality and strengthened by listening with understanding to student concerns. A student remains with an adviser for the duration of the educational program unless the student changes his/her program of study.

Intellectual mentoring by the academic adviser fosters:

1. Development of an awareness of available choices, alternatives and resources;
2. Guidance with decision making;
3. Encouragement to expand horizons by full participation in university life; and
4. Promotion of readiness to meet career, life and graduate/professional school challenges.

Students are expected to take responsibility for a successful university experience and effective advising sessions by:

1. Participating in orientation/early enrollment programs;
2. Scheduling appointments with advisers prior to priority registration and at other times as needed;
3. Identifying class choices from requirements of the preferred program or major;
4. Identifying questions to address;
5. Informing advisers of any special needs difficulties or barriers that might affect academic success;
6. Knowing academic policies and academic calendar deadlines, procedures (e.g., registration, fee payment) and degree or program requirements;
7. Remaining informed about progress in meeting academic requirements by maintaining careful academic records and seeking assistance to resolve any errors or questions and
8. Following through on recommendations to seek assistance from the various student support services provided by the university.

Dual Degrees from College of Education and Human Sciences and Other UNL College (Requires Dual Matriculation)

Students in the College of Education and Human Sciences may earn a bachelor of science degree from the College of Education and Human Sciences and a bachelor of science degree from another UNL College. Students must complete the degree requirements for both colleges and a minimum of 30 credit hours beyond their primary college.

Dual Options Within & Among Departments of The College of Education and Human Sciences

A student in the College of Education and Human Sciences may complete two or more areas of study within the College. Completion of the areas of study will be listed on the transcript. Students must complete the degree requirements for each area of study.

Endorsements

A student in Elementary, Middle Grades or Secondary Education must complete one field or two subject endorsements. Endorsements are listed on page 255.

Honors and Awards

A College Student Award Committee determines criteria for awards and recognizes outstanding students. A Scholarship Recipient Convocation is held each fall.

Dean's List

A Dean's List of Education and Human Sciences and dual-matriculated students who meet the stated criteria is published in the fall and spring semesters. To be eligible, students must have a minimum semester grade point average of 3.75 in 12 or more graded semester hours. Exceptions are made for students taking required courses offered only on a Pass/No Pass basis.

Student teachers and practica students who either 1) enter the semester of student teaching with a cumulative GPA of 3.75 or above, or 2) earn a 3.75 GPA during the preceding semester on the basis of 12 or more graded semester hours, will be eligible for the Dean's List with recommendation from the University supervisor. Post-baccalaureate students working on certifications are eligible upon request to the Director of Advising, but only undergraduate hours apply.

Degrees with Distinction

In recognition of outstanding academic excellence, the College of Education and Human Sciences recommends the bachelor's degree with Distinction, with High Distinction, and with Highest Distinction. All students graduating with distinction must meet the following criteria:

- Candidates must have completed at least 60 hours at UNL (Child, Youth and Family Studies students enrolled at UNO) by the time of graduation.

- Persons in teaching endorsement programs must satisfactorily complete student teaching; persons in non-endorsement programs must satisfactorily fulfill practica or other internship experiences as required by their programs of study.
Council for Exceptional Children (CEC)  
The professional organization for special education teachers and personnel. Joining it as a pre-service teacher provides opportunities to further develop knowledge and professional skills related to special education. This is for the discussion and interests of exceptional children. Graduates or undergraduates seeking certification or additional endorsements in special education. To enhance your professional interests and skills related to working with students with disabilities. Meetings are typically held monthly at a time set each semester based on students’ and supervising faculty schedules.

Culinology®–Restaurant Management Club  
Interested in designing the future of food, interacting with industry professionals, developing culinary and management skills? Open to all students with career goals related to the culinary arts, food product development and restaurant management. Biweekly activities, a business meeting and a professional learning activity, provide leadership and networking opportunities. Participate in club catering activities to support your attendance at national association meetings such as the Research Chefs Association or National Restaurant Association.

Future Educators of Color (FEC)  
The Future Educators of Color group assists in the mentoring, recruiting and retention of students of color in the College of Education and Human Sciences.

Montage  
Montage is open to all textiles, clothing and design majors. Students promote departmental activities.

Nebraska Student Speech, Hearing, and Language Association (NSSHLA)  
A national pre-professional organization for undergraduate and graduate students interested in the study of human communication and related disabilities. Group meets twice a month during the fall and spring semesters. Undergraduate and graduate students who are interested in speech/language pathology and/or audiology or related disabilities. You can receive professional publications, reduced registration fees at selected state and national conferences, opportunities for community service, and eligibility for the Pre-ASHA program. Students are eligible to apply to serve.

Nutrition and Health Promotion Association  
The Association welcomes all nutrition and health science majors. The purpose is to foster the professional and educational goals and interests in the fields of dietetics, nutritional science and nutrition, fitness and health promotion.

NSAEYC  
The student chapter of the National Association for the Education of Young Children, is open to all students in early childhood education. The organization provides networking, leadership, service, and career information.

Student Undergraduate Middle-Level Organization (SUMO)  
An undergraduate student organization for students in the Middle-Level Education program. There are usually one or two meetings per semester. All students pursuing teacher certification in Middle-Level Education are encouraged to join and remain throughout their college career. The organization provides camaraderie, cohesion, program updates, and job opportunities. No application necessary. Meets dates and times are posted in Henzlik Hall.

University of Nebraska Student Education Association (SEA)  
Affiliated with the National Education Association (NEA), SEA offers students initial entry into a respected professional association. Undergraduate or graduate students majoring in education in the College of Agriculture Sciences and Natural Resources, College of Education and Human Sciences, and Harrison-Lied College of Fine Arts and Performing Arts, are eligible for membership in SEA.

A career opportunity may be obtained in the Student Services Center, 105 Henzlik Hall.

Career Opportunities

A degree in Education and Human Sciences provides a broad educational background that includes a strong comprehensive education and professional courses which make it possible to enter and progress through a career. The strength of the program makes it possible for professionals to change goals and adapt to the employment marketplace while continuing to serve the needs of people.

Recent graduates of the College hold positions in several areas:

- Business/Management: careers include, among others, retailing; investment, insurance and commodities sales; public relations and finance; and marketing.
- Design-Oriented: careers include textile design, apparel design, fashion illustration, visual merchandising, and product development.
- Education: careers include teaching in elementary, junior, and senior high schools; extension education; government; business and industry.
- Health Care: careers include dietetics, rehabilitation, and gerontology, among others.
- Human Services: careers include social work, administration, law enforcement, program planning and management, gerontology, human services, job, family and personal counseling.
- Journalism/Communication: careers include broadcasting, news editorial, and advertising.

Some students may elect to pursue graduate study to prepare for careers in university-level research and teaching.

Students are encouraged to discuss with their advisers and other faculty the variety of career opportunities which may be available to them.
International Opportunities

Because today's graduates interact with students of many backgrounds and cultures, students are strongly encouraged to study abroad as part of their undergraduate preparation. The College is committed to preparing students to function in a global, culturally diverse and changing society. The success of the College's graduates will be enhanced by knowledge of a foreign language and understanding of other cultures. A global perspective is developed in many of the College's courses and study abroad is encouraged. The College offers a minor in international studies which includes a study experience in another country. Contact the Student Services Center for requirements.

The College sponsors overseas programs for students in the College and works closely with the International Affairs Office of the University to see that students are aware of the many study abroad opportunities that exist for UNL students. The College is affiliated with The American College in London; Queen Margaret College, Edinburgh, Scotland; and the University of New South Wales, Australia. Proficiency in a foreign language is not required for all international programs. Foreign language study, however, is often a part of the programs. Students should contact either the International Affairs Office, 1237 R Street or the Student Services Center.

Admission to the College

Students accepted by the University must have an ACT of 20 or SAT of 950, or rank in the upper half of their high school graduating class and have the following high school preparation to be eligible for admission to the College of Education and Human Sciences.

- four years of English that include intensive reading and writing experience;
- two years of one foreign language;
- four years of mathematics that include algebra I, II, geometry and one year that builds on a knowledge of algebra;
- three years of natural sciences that include at least two years selected from biology, physics, chemistry, and earth science and one year of laboratory instruction;
- three years of social studies that include at least one year of American and/or world history and one year of history, American government, and/or geography.

Deficiency Removal—Teacher Education

Students admitted to the University with three or more high school deficiencies, or two deficiencies in a single category other than foreign language, will not be admitted to a teacher education program until such deficiencies are removed.

Math Placement Exam (MPE)

Students admitted to the College of Education and Human Sciences are required to take the Math Placement Exam prior to enrolling in required math courses. The results of the placement exam determine which math course a student will take. If students lack sufficient high school preparation in math to take the required math course, exam results will indicate a need to enroll in equivalent high school algebra courses, such as MATH 95C (not for college credit) or MATH 100A (may be taken for college credit but does not apply toward graduation requirements). The purpose of the Math Placement Examination is to assure that students are sufficiently prepared to handle college level math courses.

Transfer and Readmitted Student Requirements

Transfer students from universities or colleges outside of UNL and readmitted students seeking admission to the College of Education and Human Sciences must have an accumulated average of 2.0 on a 4.0 scale or above and no high school deficiencies. Students who do not meet these requirements must enroll as deciding students in the Division of General Studies or in another college. Once they have completed 12 graded hours at UNL with a minimum 2.0 grade point average, and have removed any high school deficiencies, UNL students may apply for admission to the College.

Transfer and readmitted students must meet the graduation requirements for the College of Education and Human Sciences as stated in the current catalog in effect at the time they enter or reenter the College.

Students who left the College on probation or who were dismissed may seek readmission to the College after two semesters by applying to the UNL Admissions Office. Readmission is not assured. However, the admissions committee is receptive to giving students a second opportunity to be successful. The committee is interested in knowing what the student has done in the intervening period that would suggest the student will be successful when readmitted. Successfully completing correspondence courses and/or community college courses is an effective way to demonstrate one's commitment to academic success.

Transferring from Other Colleges at UNL

Students transferring to the College of Education and Human Sciences from another University of Nebraska Lincoln college or from the Division of General Studies must have a minimum cumulative GPA of 2.0, be in good academic standing, and meet the freshman entrance requirements that exist at the time of their admission to the College of Education and Human Sciences. All admission deficiencies must be removed prior to admission to the College. Students must fulfill degree requirements that exist at the time of their admission to the college, not at the time they entered UNL.

To remain current, College of Education and Human Sciences students must enroll in, and complete, at least one UNL course that will apply toward degree requirements during a 12 month period. Students who readmit following an absence of one year or more must meet all requirements in the undergraduate bulletin in effect at the time of readmission and enrollment. Students who transfer to another UNL college and later return to the College of Education and Human Sciences will be considered readmitted students. Students who transfer out of a teacher education program, but who continue their certification program while seeking a degree in another UNL college, are exempt from this policy.

Acceptance of Transfer Grades

Grades Earned at UNL, UNO, UNK

Grades of D-, D, D+, and C- satisfy requirements in all programs in the College unless specified otherwise under the “Degree Programs and Requirements in Education (Teacher Preparation)” on page 250, “Courses of Instruction in Education” on page 260, or “Areas of Study in Human Sciences” on page 267 of this bulletin. Students who receive a grade of D-, D, D+, C-, however, are encouraged to retake the course.

Grades Earned Outside UN System

The college will accept no more than 9 credit hours of grades less than a C from any program outside the University of Nebraska system. Grades below a C can only be applied to general education requirements and elective classes.

Maximum Number of Hours for Transfer

Transfer courses are evaluated by the University and the College to determine UNL and College course equivalencies. The College determines which courses will be accepted and how they will apply toward degree requirements. Sixty-six (66) is the maximum number of hours that will be accepted on transfer from a two-year college. Ninety-five (95) is the maximum number of hours that will be accepted on transfer from accredited four-year colleges and universities.

Courses taken 10 years before admission or readmission to the College will be evaluated by the major department to determine if it is appropriate to accept those courses for transfer and application to degree requirements. Specific courses will be reviewed in keeping with the guidelines specified by each department.

Transfer Credit from Technical, Non-Accredited and Foreign Institutions

Students who wish to transfer from these institutions must have their course evaluated by the appropriate departmental representative. All rules stated above in reference to grades and maximum credit hours apply. For additional information and guidance in this process contact the Dean's Office.

Transfer Agreements with UNO and UNK

Transfer agreements between the three institutions within the University System allow for a smooth transition for students interested in taking courses from UNO, UNK, and/or UNL. Although restrictions noted above on grades and maximum transfer hours still apply, there are some exceptions. For purposes of residency, courses from UNO and UNK fulfill these
requirements. Students planning to major in a program in the college should read the specific requirements noted with individual programs. Questions about academic transfer should be addressed to the Dean's Office.

Transfer Agreements with Community Colleges

Articulation agreements and "Transfer with Ease Programs" with Nebraska community colleges indicate how courses and programs will transfer to UNL and the College of Education and Human Sciences. The same guidelines noted above on the acceptance of courses, grades, and hours also apply to these institutions. Students interested in transferring from a community college should consult with their school or the Student Services Center to determine which courses will transfer to fulfill specific College of Education and Human Sciences requirements.

Courses from accredited two-year institutions will generally not be substituted for 400-level human sciences classes in the College. The 300-level courses will be considered on an individual basis by the respective departments in the College of Education and Human Sciences.

• Courses taken prior to course articulation agreements will be accepted contingent upon departmental validation of the credit.

International Students

The College of Education and Human Sciences welcomes undergraduate international students as a part of admission to the College. International students must present TOEFL score of 550 or higher, and TSE score of 230 or higher.

Students seeking teacher education and state certification must meet the same requirements as any other undergraduate students, including the Pre-Professional Skills Test or other basic skills test approved by the Nebraska Department of Education. Students who have received a degree outside of the United States and are interested in teacher certification are required to have a transcript review completed by an approved agency not directly associated with the University of Nebraska. See the director of advising in the College Student Services Center for details.

College Academic Policies

Registration

The College of Education and Human Sciences offers an undergraduate bachelor of science in education and human sciences degree. The College offers undergraduate programs leading to a bachelor of science in education and human sciences in more than 40 programs. The College of Education and Human Sciences offers programs in education and human sciences in more than 40 programs leading to a bachelor of science in education and human sciences.

Registration

College of Education and Human Sciences students are encouraged to meet with their assigned academic adviser prior to registration for any term (fall, spring, and summer sessions). There are no restrictions on enrollment in 100- and 200-level education courses and students from other colleges wishing to explore a career in education are invited to enroll in courses at this level. Courses at the 300 and 400 levels are typically restricted to upperclass students and those students admitted into teacher education programs. All prerequisites to College courses must be met prior to enrollment.

Academic Load

A maximum of 18 credit hours may be taken each semester (4 hours in the Pre Session; 7 in each five-week session; 9 in the eight-week session) without special authorization from the Director of Advising. UNL students must be enrolled in 12 hours of credit in a semester to be considered full time. Most first-year students are advised to take no more than 12-15 credit hours in the first semester. This allows new students to make an easier transition from high school to college study. Most students require 2-3 hours of preparation for each hour in class. So a schedule of 12 credit hours is actually equivalent to a 36-48 hour a week job.

Outside work may interfere with academic success. The student who must work should plan to take a lighter load and consider taking some summer sessions or an extra semester or two to complete the work required for degree. Students should check if restrictions on the number of graded hours each term govern their continued eligibility for medical insurance, scholarships, and/or financial aid.

Special Requests for Substitutions and Waivers

In rare cases, there may be a need for students to request a special substitution or waiver to curriculum requirements. Such a request is made only in exceptional and unusual circumstances and cannot serve as an excuse for not following correct degree requirements. Specific instructions and procedures are available from students' academic advisors in the Student Services Center, 105 Henzlik Hall.

Credit by Exam

Students who believe that previous experience satisfies course requirements may approach the appropriate academic department for possible credit by exam options. Credit is rarely given simply for work experience.

Grade Appeals

Any student enrolled in a course in the College of Education and Human Sciences who wishes to appeal alleged unfair and prejudicial treatment shall present his/her appeal in writing to the Dean's Office no later than 30 days after notice of the student's final course grade has been mailed from campus.

Students may use and be encouraged to use the following sequential procedures to appeal the grade. The problem may be solved at any of the levels of the appeal procedure.

1. Contact the instructor. Frequently the problem can be solved at this point.
2. Submit a request to the chair of the department.
3. Take the case to the departmental Grading Appeals Committee. The Committee is contacted by the department chair.
4. Take the case to the College Appeals, Retention and Certification Committee by contacting the Dean's Office.

The complaint will be forwarded to a committee consisting of faculty and student representatives. After a hearing, the Committee will make a written recommendation regarding the appeal. The Committee's recommendation is binding on the appealing student and faculty member.

College Graduation Requirements

Degree Application. It is the student's responsibility to notify the Registrar's Office, 109 Canfield Administration Building, early in the semester the student plans to graduate. Failure to meet the published deadline will delay graduation one full term.

Program Evaluation and Assessment

The College of Education and Human Sciences is committed to evaluating the effectiveness of its programs. Students participate in College-wide surveys, exit interviews and portfolio development. Student involvement in assessment will in no way affect a student's GPA or graduation. In addition, graduates may be asked to participate in post-graduation surveys which seek information about professional preparation and employment.

Students in education teaching endorsement programs are required to do any or all of the following, prior to graduation:

- Pass a test that measures subject area knowledge.
- Have their teaching performance judged to be satisfactory by professional evaluators.
- Complete the appropriate Praxis I tests for their respective endorsement areas and grade levels.

Degree Programs and Requirements in Education (Teacher Preparation)

Degree and Majors

The College of Education and Human Sciences offers an undergraduate bachelor of science in education and human sciences degree. The College offers undergraduate programs leading to a bachelor of science in education and human sciences in more than 40 different teaching endorsements and in undergraduate programs leading to careers in fields such as administrative resource management and technical education.

For some students in other colleges, there are different requirements for certification. Some students in other colleges choose to seek certification, completing a degree in their home college while meeting all requirements for teacher certification in the College of Education and Human Sciences.

Early field placement in public and private schools is a nationally recognized hallmark of the teacher education program in the College of Education and Human Sciences. These placements permit students to gain classroom experience early in their university's education, allowing them an opportunity to know both the satisfactions and the pressures of the classroom atmosphere long before they approach the end of their undergraduate work.

Residency Requirement

A minimum total of 125 credit hours of course work in teacher preparation programs is required for a bachelor's degree in education and human sciences. Students should consult their academic advisor to ensure they meet all requirements.
human sciences of which 30 of the last 36 must be taken in residence at U N L. Independent Study and summer reading courses sponsored by the U N L Extended Education do not apply to residency.

Residency Requirement and Study Abroad Courses

Credit earned during study abroad may be used toward degree requirements if students participate in prior approved programs and register through U N L (see "Study Abroad and Exchange Programs" on page 21).

Grade Requirements in Education Programs

Requirements for completion of an undergraduate degree in a teacher preparation program include a minimum cumulative grade point average (GPA) of 2.5. Students seeking certification must also have a 2.5 GPA in their education courses with no grade lower than a C. Students are also required to have a 2.5 GPA in their subject endorsement area(s) with no grade lower than a C in either area.

Restrictions on C- and Below Grades for Degrees in Education

Grades below C (C-, D+, D, and D-) may not be applied in any endorsement, professional education requirement or non-teaching major professional course requirement in degrees leading to teacher preparation.

Up to 9 hours of transfer credit with grades below C may be applied to the General Education requirements and elective classes in programs leading to the undergraduate degree in teacher preparation. Transfer grades of C- and D may not be used in the major/endorsement area courses or in the professional courses in teacher preparation programs.

Pass/No Pass Grade Option - Education

A student enrolled at the University may, in certain instances, take a grading option of Pass/No Pass (P/N) for a specific course. A grade of pass represents satisfactory completion of a course with a grade of C or better. Credits earned under the pass grade option count toward graduation, but no grade points are tabulated in the cumulative grade point average. Likewise, a grade of no pass is not tabulated in the grade point average. The following rules apply to students who are enrolled in teacher preparation programs who choose the Pass/No Pass option:

1. Only one course in each subject endorsement; two courses in a field endorsement.
2. For students in certification programs, pre-professional and professional education classes may not be taken Pass/No Pass unless a class has already has a Pass/No Pass designation.
3. Any course in the general education requirements unless otherwise stipulated by the department of the course.
4. Total P/N credits may not exceed 12 credit hours. This limit does not include courses offered on a Pass/No Pass only basis.

Students who are admitted through the Admission by Review process with core course deficiencies will have certain conditions attached to their enrollment at UNL. These conditions are explained under "Removal of Deficiencies" on page 6.

Student Classification for Students Pursuing Teacher Education

Pre-Education

All newly admitted students who are pursuing a teacher preparation program, except those in non-teaching majors, are classified as pre-education until admitted to a Teacher Education Program.

Admission to a Teacher Education Program (TEP)

Admission to the College of Education and Human Sciences does not guarantee admission to a teacher education program. Admission to the advanced phases of teacher education is selective and, in some endorsements, highly competitive. Selection to the TEP is based upon the following criteria:

1. Completion of at least 42 credit hours with a minimum 2.5 GPA.
2. Completion of CEHS 200 or TEAC 331, or approved transfer course, and EDP 250 or 251 with a 2.5 cumulative average in the two classes, and no grade lower than a C.
3. Documentation of proficiency in reading, writing, and mathematics through successful completion of a basic skills examination that meets the Nebraska Department of Education competency requirement.
4. Completion of one course in communication studies selected from COM M 109, 205, 209, 210, or 311, or approved substitute.
5. Faculty recommendations.
6. Demonstration of attainment of particular learning outcomes in the program.
7. Completion of a personal and professional fitness self-disclosure form.

Post-baccalaureate Students Seeking Initial Teaching Certification

Students who have received a baccalaureate degree or higher and desire to obtain an initial teaching certificate may do so by pursuing a non-degree post-baccalaureate initial certification program with or without a masters degree. They must apply to the Graduate College for admission to the University of Nebraska-Lincoln and apply to a Teacher Education Program (TEP) for admission to the initial teaching certification program. Students are also required to apply for admission to a degree program if they desire to pursue a masters degree with their certification program. All students seeking initial certification must meet with the post baccalaureate assistant academic advisor. Those seeking a masters degree will also meet with a faculty advisor. Post-baccalaureate students interested in completing a teacher education program should refer to this bulletin as to policies and regulations for program completion. For specific guidelines, see the Student Services Center.

Admission to Student Teaching

All students who are candidates for an appropriately endorsed N ebraska Teacher's Certificate are required to student teach. Students who plan to student teach in the fall semesters must apply by the preceding March 1 to the Director of Field Experiences in 104 Henzlik Hall; students planning to student teach in the spring semester must apply by the preceding October 1. The basic program for student teaching provides for a full-day experience on a semester basis. Students enrolled in an elementary education dual major will complete requirements for student teaching in both majors. Admission to student teaching requires the following:

1. Matriculation in a teacher education program in the College of Education and Human Sciences, the Graduate College, or dual matriculation in the College of Education and Human Sciences and another college.
2. Admission to a teacher education program.
3. Senior standing (89 hours or more) with a minimum cumulative GPA of 2.5.
4. Application for and completion of a senior check.
5. Minimum average of 2.5 in each endorsement area (in the case of middle grades endorsement, a 2.5 in each academic area) with no grade below a C.
6. Minimum average of 2.5 in pre-professional and professional education courses and no grade below a C. Completion of all "methods" courses and practica as prescribed below for each endorsement area.

Elementary, Middle Grades, and Secondary Majors. Students meet all requirements for admission to student teaching and complete required methods courses and practica with no grade below a C+.

Special Education Majors. Students meet all requirements for admission to student teaching and complete special education methods courses with no grade below a C+. Practicum courses require a minimum grade of C or Pass.

Student Teaching Registration Requirements

Undergraduate students are required to take 12 credit hours of student teaching for a semester-long student teaching experience. Those individuals who are completing two field endorsements will student teach for 20 weeks and will register for a total of 14 credit hours. Graduate students completing a semester-long student teaching experience will register for 6 graduate hours for either a 16 or 20 week experience.

Professional program requirements should be completed prior to the student teaching experience. Students will not be allowed to student teach with more than 6 credit hours remaining in their degree program.

Student Teaching Placement

Student teachers are placed in many school districts both within Nebraska and in other states. Student teachers should be aware that they may be assigned to a school outside the Lincoln area for student teaching. While student preferences for a particular location will be considered, not all personal preferences can be met.
Criminal History/Background Check

All students completing student teaching during the fall, 2007 semester or after will be required to have a criminal history/background check completed prior to their student teaching experience. A fee will be attached to student teaching for this purpose. Students are also responsible for completing a self-disclosure form prior to any practicum experience in which the student participates. The applications for acceptance into the teacher education program and into student teaching also require completion of this form.

Removal from Student Teaching

Students participating in practicum or student teaching assignments may be removed from their assigned schools if their conduct suggests a lack of professional commitment and presents a negative influence on the well-being or learning of the students in the schools. Specific guidelines that all student teachers are to follow can be found in the Student Teaching Experience A Handbook for the University of Nebraska–Lincoln. If such a problem occurs, the student in question will be removed by the Dean of Field Experiences at the request of the cooperating teacher, building principal, and the College supervisor.

In such cases, a written report stating the problem and efforts to correct the situation will be forwarded to the Director of Field Experiences in the College Student Services Center.

Any student removed from a practicum or student teaching assignment may appeal that decision by submitting a written request to the College Appeals Committee within 30 days of the removal. The Appeals Committee will schedule a meeting, request pertinent information from the Director of Field Experiences, and notify the student several days in advance of the scheduled appeal meeting. Students are advised of their right to seek legal advice and may personally attend the Appeals Committee meeting.

The Committee's decision will be forwarded in writing to the student, to the Director of Field Experiences, and to the Dean of the College.

Moral Character and Safety Concerns

Teaching is a profession that requires its potential candidates to be individuals of integrity. Prospective teachers must be able to demonstrate that they are individuals of strong moral character who can make mature decisions for themselves and for their students. Teachers are responsible for the education, safety, and well-being for anyone in their charge. Therefore, the College of Education and Human Sciences is interested in training future teachers who show a high degree of moral character and the ability to act responsibly. These individuals must be able to serve as representatives of the College and the University of Nebraska–Lincoln.

With this in mind, should the College discover behavior, which in its reasonable judgment, establishes on the part of the candidate a lack of integrity, questionable moral/ethical character, or otherwise indicates a potential risk to young persons and others in the educational community, the College of Education and Human Sciences reserves the right to deny entry to or dismiss anyone from any program which leads to certification. More specifically, these kinds of behavior shall be adequate foundation to deny any candidate or potential candidate from participation in any practicum, pre-practicum, student teaching or similar field experiences, since the interests and safety of the children, and young people present in the classroom, school’s and other venues where these practicum experiences take place are paramount.

Problematic behaviors, which the College of Education and Human Sciences reasonably determines renders the candidate a risk to the educational community or demonstrates a likelihood of illegal activity, may be established by any credible means, including the fact surrounding a record of arrests and/or convictions.

Similarly, behaviors which result in a finding by a court or other governmental body that the individual is:

- a mentally ill and dangerous person;
- mentally incompetent to stand trial;
- acquitted of criminal charges because of insanity;
- an incapacitated person;
- a person in need of a guardian or conservator;
- a person unable to manage his or her property due to mental illness, mental deficiency, or chronic use of drugs or chronic intoxication.

These kinds of behaviors which are likely to disqualify a candidate from participation in practicum experiences and other College of Education and Human Sciences programs.

Praxis II

All students completing a program leading to teaching certificate with an endorsement require to take the Praxis II. A fee will be attached to student teaching assignments. Students are advised of their right to seek legal advice and may personally attend the Appeals Committee meeting.

The Committee's decision will be forwarded in writing to the student, to the Director of Field Experiences, and to the Dean of the College.

Graduation Without Certification

In rare cases, permission may be granted for a student to graduate without a recommendation for certification. This provision is for the student who does not qualify for or is removed from student teaching. However, there are times when because of illness or other extreme situations, a student will decide not to complete all professional requirements. In this situation, the student should contact the Director of Field Experiences at the request of the cooperating teacher, building principal, and the College supervisor.

Similarly, behaviors which result in a finding by a court or other governmental body that the individual is:

- a mentally ill and dangerous person;
- mentally incompetent to stand trial;
- acquitted of criminal charges because of insanity;
- an incapacitated person;
- a person in need of a guardian or conservator;
- a person unable to manage his or her property due to mental illness, mental deficiency, or chronic use of drugs or chronic intoxication.

These kinds of behaviors which are likely to disqualify a candidate from participation in classroom experiences and other College of Education and Human Sciences programs.

The Nebraska Department of Education Policy Pertaining to Students with Felony or Misdemeanor Convictions

The Nebraska Department of Education policy requires that a person with felony convictions or misdemeanor convictions involving abuse, neglect, or sexual misconduct shall not be permitted to participate in any practicum, pre-practicum, laboratory and classroom experiences or student teaching without approval by the Board of Education. To comply with this policy, the College of Education and Human Sciences will require each student to affirm under oath that he/she does not have any convictions in the above-named areas prior to each field placement. If a student does have any felony or misdemeanor convictions, he/she is required to meet with Dr. Tom Wandzilak, Director of Field Experiences, Student Services Center, 104 H enzlik Hall, 472-8626, as soon as possible. Students with questions pertaining to convictions should contact Dr. Wandzilak.

Application for a Nebraska Teaching Certificate

To actively engage in the teaching profession, a candidate must fulfill both the College degree requirements and the professional certification requirements of the State of Nebraska. Undergraduate students apply for the teaching certificate at the same time they apply for a baccalaureate degree in 100 or 200 Admini- stration Building. Post-baccalaureate students completing the Teacher Certification are required to apply for the certification office in the Student Services Center, 104 H enzlik Hall.

An eligible application for certification, a candidate must meet the following requirements:

1. Earn one or more degrees from the College of Education and Human Sciences or another accredited institution approved by the College of Education and Human Sciences with a minimum 2.5 grade point average.
2. Complete the teacher education general education requirements listed for elementary, middle grades or secondary education.
3. Complete professional education requirements according to established standards.
4. Complete endorsement(s) according to established standards.
5. Successfully complete a required period of student teaching.
6. Complete application for the degree and certificate.

Education Employment Services

The Career Services Center, 230 Nebraska N onion, offers a professional placement service to students and alumni who are seeking employment in education and related fields. In addition, the College of Education and Human Sciences offers an annual Education Recruitment Day in the...
Bachelor of Science in Education & Human Sciences: Elementary Education (minimum 125 hours)

I. General Education Requirements (42-48 hours)

The goals of a general, liberal education are to promote the understanding of broad areas of knowledge and to develop attitudes, values, thought processes, and basic abilities expected from an educated person. Students will complete the University's Essential Studies [ES] requirements as they complete the General Education requirements. Students will complete the University's Integrative Studies [IS] requirements as they complete their degree requirements. Pre-Professional Education and Professional Education courses may not be used to meet General Education requirements.

A. Communication: Written (6 hours)
- Select two courses from the following list: ENGL 101, 150, 151, 254; JGEN 120

B. Mathematics and Statistics (9 hours)
- Select MATH 203.
- After meeting the Nebraska Department of Education basic skills competency requirement, select MATH 300, 301.

C. Human Behavior, Culture, and Social Organization (6 hours)
- Select GEOG 140, 271, or 272.
- Select POLS 100 or other approved Essential Studies POLS Class.

D. Science and Technology (9-12 hours)
- Select one [ES] biological science course with laboratory.
- Select one physical science course with lab.
- Other (lab not required).

E. Historical Studies (3 hours)
- Select either HIST 201 or 202.

F. Humanities (6 hours)
- Select a philosophy course (except logic) from the ES list, Area F. See "Essential Studies Program List" on page 377.
- Select a non-traditional IS literature course such as ENGL 244, 244A, 245, 245A, 315, or 315B.

G. Arts (3 hours)
- Select one course from the ES list, Area G.

H. Race, Ethnicity and Gender (0-3 hours)
- Can be met with non-traditional literature course in Area F.

II. Pre-Professional Education Requirements (21 hours)

- Students must complete the following courses before applying to the Elementary Teacher Education Program:
  - COMM 109 [IS], 205, 209, or 210 (3 hrs)
  - EDPS 250 (3 hrs)
  - CEHS 200 or TEAC 331 (3 hrs)
  - TEAC 297A (1 hr)
- Students may complete the following courses prior to acceptance into the Elementary Teacher Education Program:
  - EDPS 362; TEAC 259, 330, 380

III. Professional Education Requirements (46 hours)

(See endorsement listing.) Students must be accepted into the Elementary Teacher Education Program before enrolling in the Professional Education courses.

IV. Enhancement Course Work (10-15 hours)

Students must select one course from each group listed below: (Course credits selected from this section are in addition to other general education courses):

1. Social Science Courses
   - HIST 120, 201, 202, 345, 359; GEOG 140, 271, 272; POLS 100, 221; ECON 211, 450, 451
2. Mathematics Courses
   - MATH 106 or 107 5 hrs each; MATH (no 104), 302, 304, STAT 218 3 hrs each
3. Science Courses
   - PHYS 262 (or corequisite PHYS 260 or 261 may be used to satisfy Area D non-lab science requirement); NRES 108; ENTO 115 and 116
4. Literacy Courses
   - SPED 415 and 415A 4 hrs ENGL 205, 254, 354, 361A, 361B 3 hrs each

Bachelor of Science in Education and Human Sciences: Middle Grades Education (minimum 125 hours; 133-144 hours)

I. General Education Requirements (40-44 hours)

The goals of a general, liberal education are to promote the understanding of broad areas of knowledge and to develop attitudes, values, thought processes, and basic abilities expected from an educated person. Students will complete the University's Essential Studies [ES] requirements as they complete the General Education requirements. Students will complete the University's Integrative Studies [IS] requirements as they complete their degree requirements.

A course may be used only once to fulfill the General Education requirements. Pre-Professional Education and Professional Education courses may not be used to meet General Education requirements.

Courses used to meet the General Education requirements may be applied to the major/endorsement area(s). Pre-Professional Education and Professional Education courses may not be used to meet General Education requirements.

Limit of 6 hours from one department in Areas B-J. One course each in US history, philosophy (not logic), and literature are required.

A. Communications Written (6 hours)
- Select two courses from the following list. At least one course from the English department is required.
  - ALEC 102; EN GL 101, 150, 151, 254; JGEN 120; N EWS 201, 202

B. Mathematics and Statistics (6-8 hours)
- Select one course from the ES list, Area B or MATH 106, 107, or 203.
- If necessary to complete 6 hours, select one additional course from the following:
  - MATH 101 or above
  - STAT 218 or above
  - ECON 215
  - EDPS 330 or 459

C. Human Behavior, Culture, and Social Organization (6 hours)
- Select two courses from the following list. At least one course from the ES list, Area C.
  - See "Essential Studies Program List" on page 377. NUTR 100 must be used to satisfy one of the ES course requirements.

D. Science and Technology (10-12 hours)
- Select three courses from the ES list, Area D.
  - See "Essential Studies Program List" on page 377.
  - One 4-hour course with a laboratory is required.

E. Historical Studies (3 hours)
- Select either HIST 201 or 202.

F. Humanities (6 hours)
- Select a literature course and a philosophy course (except logic) from the ES list, Area F.
  - See "Essential Studies Program List" on page 377. A course may be used only once to fulfill the General Education requirements. Pre-Professional Education and Professional Education courses may not be used to meet General Education requirements.

G. Arts (3 hours)
- Select one course from the ES list, Area G.
  - See "Essential Studies Program List" on page 377.

H. Race, Ethnicity and Gender (3 hours)
- Select one course from the ES list, Area H.
  - See "Essential Studies Program List" on page 377. A course may be used only once to fulfill the General Education requirements. Pre-Professional Education and Professional Education courses may not be used to meet General Education requirements.

I. Foreign Language (0-10 hours)
- Two years of high school study in one foreign language or two semesters of college credit in one foreign language are required.

II. Pre-Professional Education Requirements (23 hours)
- Students must complete the following courses before applying to the Middle Level Teacher Education Program:
  - COMM 109 [IS], 205, 209, or 210 (3 hrs)
EDPS 251 (3 hrs)
CEHS 200 or TEC 331 (3 hrs)
TEAC 197Q and 297Q (1 hr each)

- Students may complete the following courses prior to acceptance into the Middle Level Teacher Education Program:
  - EDPS 362; TEAC 259, 330, 446

Program Requirement: Completion of 500 hours of documented interactions with students 9-15 years of age is required prior to admission.

III. Subject Area Endorsement Requirements (42-49 hours)
(See endorsement listing.) Discuss employment opportunities with academic adviser before selecting.

IV. Professional Education Requirements (28 hours)

- Students must be accepted into the Middle Level Teacher Education Program before enrolling in the Professional Education courses. Upon acceptance, course numbers and call numbers can be obtained from the Middle Level Adviser in 105 Hennizk Hall.

  - TEC 397Q (1 hr)
  - TEC 453N, 453P, 454T, 453, 453V, 453W (2 hrs each)
  - TEC 497Q (10 hrs)
  - TEC 497Y (1 hr)
  - TEC 497Z (1 hr)
  - SPED 401B (3 hrs)

Bachelor of Science in Education: Secondary Education (minimum 125 hours)

I. General Education Requirements

The goals of a general, liberal education are to promote the understanding of broad areas of knowledge and to develop attitudes, values, thought processes, and basic abilities expected from an educated person. Students will complete the University's Essential Studies [ES] requirements as they complete the General Education requirements. Students will complete the University's Integrative Studies [IS] requirements as they complete their degree requirements.

A course may be used only once to fulfill the General Education requirements, except in Area H and J. The course in Area H may also be used to satisfy a non-Essential Studies requirement in Area C or F. NUTR 100 may be used to satisfy one of the Essential Studies courses in Area C. Courses used to meet the General Education requirements may be applied to the major/endorsement area(s). Pre-Professional Education and Professional Education courses may be used to meet General Education requirements.

Limit of 6 hours from one department in Areas B-J. One course each in US history, philosophy (not logic), and literature are required.

A. Communications Written (6 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ALEC 102</td>
<td>3</td>
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<tr>
<td>ENGL 101</td>
<td>3</td>
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<tr>
<td>ENGL 150</td>
<td>3</td>
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<tr>
<td>ENGL 151</td>
<td>3</td>
</tr>
</tbody>
</table>

B. Mathematics and Statistics (5-6 hours)

Select one course from the ES list, Area B.

At least one course from the English department is required.

C. Humanities (9 hours)

Select a literature course and a philosophy course (except logic) from the ES list, Area F.

D. Science and Technology (9-12 hours)

Select three courses from the ES list, Area D.

One course with a laboratory is required.

E. Historical Studies (3 hours)

One course in US History is required. Select HIST 201 or 202.

F. Humanities (9 hours)

Select a literature course and a philosophy course (except logic) from the ES list, Area F.

G. Arts (3 hours)

Select one course from the ES list, Area G.

H. Race, Ethnicity and Gender (3 hours)

Select one course from the ES list, Area H.

I. Speech (3 hours)

Select one course from the following list:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ALEC 202</td>
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<td>ALEC 302</td>
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<tr>
<td>ALEC 303</td>
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<td>COMM 109</td>
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<td>COMM 212</td>
<td>3</td>
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<tr>
<td>COMM 311</td>
<td>3</td>
</tr>
</tbody>
</table>

J. Physical and Mental Health (3 hours)

Select NUTR 100.

K. Foreign Language (0-10 hours)

Two years of high school study in one foreign language or two semesters of college credit in one foreign language are required.

II. Pre-Professional Education Requirements

- Students must complete the following courses before applying to the Secondary Teacher Education Program:
  - EDPS 251
  - EDPS 297
  - CEHS 200; or TEC 331

- Students may complete the following courses prior to acceptance into the Secondary Teacher Education Program:
  - TEAC 259 (Students in business education are not required to take TEAC 259)
  - TEAC 330

NOTE: Students in speech pathology and audiology take SLPA 486 in place of TEC 330.

III. Teaching Endorsement Requirements

Secondary education endorsements (or majors) are divided into fields or single subjects. Students graduating from the College of Education and Human Sciences or working toward certification must complete one field endorsement or two subject endorsements and must take a methods course and student teach in each endorsement. A few supplemental endorsements are available that may enhance employment possibilities. Endorsements that require two subjects are noted with an asterisk in the “Endorsements” section. Students may contact the College Student Services Center, 105 Hennizk Hall, for additional information or an explanation of the requirements.

IV. Professional Education Requirements

Professional Education (28 hours): TEC 397, 403, 451, 452, 3 hrs each; 497 10 hrs; 497Y, 497Z, 1 hr each; EDPS 457 3 hrs; SPED 401B (434 for business education students) 3 hrs; Sections of 397, 403, 451, 452, and 497 are designated by endorsement area. Additional professional education course work, when required, will be noted with the endorsement courses listing.

Students must be accepted into the Secondary Teacher Education Program before enrolling in the Professional Education courses. Upon acceptance, course numbers and call numbers can be obtained from the appropriate subject matter adviser in the College Student Services Center.
I. General Education Requirements

The goals of a general, liberal education are to promote the understanding of broad areas of knowledge and to develop attitudes, values, thought processes, and basic abilities expected from an educated person. Students will complete the University’s Essential Studies requirements as they complete the College General Education requirements. Students will complete the University’s Integrative Studies requirements as they complete their degree requirements.

A course may be used only once to fulfill the General Education requirements, except in Area H. The course in Area H may also be used to satisfy the non-Essential Studies requirement in Area C or F. N U T R 100 may be used to satisfy one of the Essential Studies courses in Area C. Courses used to meet the General Education requirements may be applied to the program area(s). Limit of 6 hours from one department in Areas A-B.

Complete the General Education Requirements for Bachelor of Science in Education and Human Sciences: See Secondary Education, Areas A-K.

II. Program Areas

A. Audiology
B. Speech Pathology and Audiology
G. Technical Education

Endorsements

Students graduating from the College of Education and Human Sciences or working towards certification must complete one field endorsement or two subject endorsements those that require a second endorsement are noted with an (*) asterisk.

Agricultural Education: Consult the College of Agricultural Sciences and Natural Resources Department of Agricultural Leadership, Education, and Communication section within this catalog for endorsement requirements. A combined agricultural education and biology endorsement is also available.

Art: (Grades K-12) 55 hours ART P 140A, 140B, 141A, 141B, 142 hours each; DR AW 201 3 hrs SCPL 21 3 hrs CER M 231 3 hrs; PR NT 241 3 hrs PANT 251 3 hrs PHOT 261 3 hrs; AH IS 101, 102 3 hrs each; select 6 hrs electives in art history, select 15 hrs art studio electives, at least 9 of which are at the 300/400 level. NOTE: Students also take T E A C 306 3 hrs prior to the professional education sequence.

Art: (Grades K-6) 28 hours AH IS 101, 102 3 hrs each; ART P 140A, 140B, 141A, 141B, 142 2 hrs each; SCPL 211 3 hrs CER M 231 3 hrs PR NT 241 3 hrs PANT 251 3 hrs PHOT 261 3 hrs; AH IS 101, 102 3 hrs each; select 6 hrs electives in art history, select 15 hrs art studio electives, at least 9 of which are at the 300/400 level. NOTE: Students also take T E A C 306 3 hrs prior to the professional education sequence.

Bachelor of Science in Education and Human Sciences: Non-Teaching Endorsement Programs (minimum 125 hours)

The Bachelor of Science degree provides a professional education that prepares students for teaching careers in professional education. The Bachelor of Science degree in education requires students to complete all the General Education requirements, except in Area H. Students will complete the University’s Integrative Studies requirements as they complete their degree requirements. Students will complete the University’s Essential Studies requirements as they complete their degree requirements.

A course may be used only once to fulfill the General Education requirements, except in Area H. The course in Area H may also be used to satisfy the non-Essential Studies requirement in Area C or F. N U T R 100 may be used to satisfy one of the Essential Studies courses in Area C. Courses used to meet the General Education requirements may be applied to the program area(s). Limit of 6 hours from one department in Areas A-B.

Complete the General Education Requirements for Bachelor of Science in Education and Human Sciences: See Secondary Education, Areas A-K.

Endorsements

Students graduating from the College of Education and Human Sciences or working towards certification must complete one field endorsement or two subject endorsements those that require a second endorsement are noted with an (*) asterisk.

Agricultural Education: Consult the College of Agricultural Sciences and Natural Resources Department of Agricultural Leadership, Education, and Communication section within this catalog for endorsement requirements. A combined agricultural education and biology endorsement is also available.

Art: (Grades K-12) 55 hours ART P 140A, 140B, 141A, 141B, 142 hours each; DR AW 201 3 hrs SCPL 21 3 hrs CER M 231 3 hrs; PR NT 241 3 hrs PANT 251 3 hrs PHOT 261 3 hrs; AH IS 101, 102 3 hrs each; select 6 hrs electives in art history, select 15 hrs art studio electives, at least 9 of which are at the 300/400 level. NOTE: Students also take T E A C 306 3 hrs prior to the professional education sequence.

Art: (Grades K-6) 28 hours AH IS 101, 102 3 hrs each; ART P 140A, 140B, 141A, 141B, 142 2 hrs each; SCPL 211 3 hrs CER M 231 3 hrs PR NT 241 3 hrs PANT 251 3 hrs PHOT 261 3 hrs; AH IS 101, 102 3 hrs each; select 6 hrs electives in art history, select 15 hrs art studio electives, at least 9 of which are at the 300/400 level. NOTE: Students also take T E A C 306 3 hrs prior to the professional education sequence.
256 College of Education and Human Sciences/Endorsements
Hard of Hearing Education, students must
continue with the Deaf or Hard of Hearing
graduate program.
Deaf or Hard of Hearing Education
(pre-professional concentration): 37-43
hours: SLPA 101, 102, 201, 202 4 hrs each;
either SLPA 250 and 271 and 472 3 hrs each or
850 3 hrs; either SLPA 251 or 452 3 hrs; SPED
302, 303, 304, 400, and 472 3 hrs each.
English. (Grades 7-12) 45 hours: writing 9 hrs
including ENGL 357; language, 9 hrs including
TEAC 438/838; literature, 24 hrs including
British literature 6 hrs; American literature 6 hrs;
TEAC 439/839 3 hrs; nontraditional cultural
perspectives literature 6 hrs, ENGL 377 3 hrs;
approved electives 3 hrs. (21 hrs must be above
299, 9 hrs above 399.)
NOTE: See adviser in CEHS Student
Services Center for list of appropriate courses.
Child, Youth, and Family Studies. (Grades
7-12) For a description of the program for
teacher preparation in child, youth, and family
studies, see the “Department of Child,Youth,
and Family Studies” on page 269.
French. (Grades 7-12) 30-46 hours: Beginning
and intermediate language courses FREN 101,
102 5 hrs each, 201, 202 3 hrs each or equivalents; FREN 203, 204, 319, 321, 322 3 hrs
each; 6 hrs to be chosen from FREN 301, 302,
317, 399; FREN 303, 304 3 hrs each; one additional 400-level French class 3 hrs. Credit
granted for study abroad.
Geography and History. (Grades 7-12) 67
hours: GEOG 120, 140 3 hrs each, 155 4 hrs,
272, 447 3 hrs each; 6 hrs from GEOG 170,
271, 370, 372, 375, 378; 3 hrs from GEOG
181, 334, 361; 6 hrs geography electives at the
300/400 level; HIST 120, 201, 202 3 hrs each;
6 hrs from Groups A, B, and C and 3 hrs of
history electives at the 300/400 level. Group A:
HIST 303, 304, 334, 335, 340, 341, 342, 343,
344, 345, 347, 348, 349, 350, 351, 352, 353,
Group B: HIST 100, 101, 210, 211, 221, 231,
Group C: HIST 150, 171, 181, 218, 219, 220,
hours from two of the following disciplines:
anthropology, economics, political science,
psychology, and sociology. At least one course
must be from Group D: ANTH 351, 410, 440,
445, 451; ECON 375; POLS 238, 338, 443;
PSYC 310, 421, 425; SOCI 217, 448, 460, 480.
NOTE: PSYC 289 and ATHC 279 will not
count in the endorsement.
German. (Grades 7-12) 30-46 hours: Beginning and intermediate language courses GERM
101, 102 5 hrs each, 201, 202 3 hrs each or
equivalents; GERM 203, 204, 319, 321, 322
3 hrs each; 6 hrs to be chosen from GERM 301,
302, 398; GERM 303, 304 3 hrs each; one
additional 400-level German class 3 hrs. Credit
granted for study abroad.
*History and a Non-Social Science Discipline. (Grades 7-12) 36 hours history plus
hours required from the non-social science
discipline (see appropriate listing for other
endorsement requirements): HIST 120, 201,
202 3 hrs each; 6 hrs selected from Groups A, B,
and C and 3 hrs of history electives at the 300/
400 level. Group A: HIST 303, 304, 334, 335,
340, 341, 342, 343, 344, 345, 347, 348, 349,

350, 351, 352, 353, 354, 355, 359, 360, 397,
442, 445, 446, 447. Group B: HIST 100, 101,
210, 211, 221, 231, 232, 261, 262, 328, 330,
338, 339, 362, 430. Group C: HIST 150, 171,
181, 218, 219, 220, 241, 306, 329, 356, 357,
370, 371, 382. Six hours from two of the
following disciplines: anthropology, economics,
geography, political science, psychology, and
sociology. At least one course must be from
Group D: ANTH 351, 410, 440, 445, 451;
ECON 375; POLS 238, 338, 443: PSYC 310,
421, 425; SOCI 217, 448, 460, 480.
NOTE: PSYC 289 and ATHC 279 will not
count in the endorsement.

Industrial Education (two plans)
1. Industrial Technology Education.
(Grades 7-12) 45 hours: TEAC 101, 102, 103,
104, 109, 204, 205, 242, 243, ALEC 308,
TEAC 201 or MSYM 245, TEAC 203 or
MSYM 312, TEAC 303 3 hrs each.
NOTE: Additional 6 hours of professional
education requirements include: TEAC 424,
451K 3 hrs each. Students do not take TEAC
403.
2. Trade and Industrial Education.
(Grades 9-12) 51 hours: 30 hours in Industrial
Technology (see adviser), 12 hours in one area
selected from: automotives, electricity/electronics, drafting, construction, or metals, TEAC 424,
451K, ALEC 308 3 hrs each; 2000 hrs paid
industrial-related course work.
Journalism and Mass Communications
and English. (Grades 7-12) 29 hours plus
English endorsement: NEWS 201, 202, 304, 467
3 hrs each; JOUR 101, 203, 486, 487 3 hrs each,
142 2 hrs. Select one of the following: BRDC
226; ADVT 332; NEWS 303; JOUR 350.
Language Arts. (Grades 7-12) 71 hours:
THEA 114, 201, 202 3 hrs each; NEWS 201,
202, 467 3 hrs each; COMM 200, 201, 212,
412 3 hrs each; JOUR 101 3 hrs, 142 2 hrs;
TEAC 411, 438, 439, 441 3 hrs each; ENGL
357, 377 3 hrs each; approved language course
3 hrs; approved composition courses 6 hrs;
approved British literature course 3 hrs;
approved American literature course 3 hrs;
approved non-traditional cultural perspectives
course 3 hrs. (21 hrs must be above 299, 9 hrs
above 399)
Latin. See adviser in CEHS Services Center.
Marketing Education/Basic Business and
Cooperative Education. (Grades 7-12) 57
hours: ACCT 201, 202 3 hrs each; ECON 211,
212, 215 3 hrs each; MNGT 320 3 hrs; BLAW
371 3 hrs; MRKT 341, 345, 346, 347 3 hrs each;
select 3 hrs from MRKT 425, 443, 444, 458;
select 3 hrs from MNGT 361, 464, 465;TEAC
323, 424, 425, 443, 444, JGEN 120 3 hrs each.
Mathematics. (Grades 7-12) 35 hours: MATH
106 and 107 5 hrs each; 208 4 hrs; 310, 314,
350, 407/807, 408/808 3 hrs each; 221 or 405
3 hrs; STAT 380 3 hrs.
Middle Grades Education. (Grades 4-9) 4249 hours: Program Requirement: completion of
500 hours of documented interactions with
students 9-15 years of age is required prior to
admission.

Pre-Education (23 hours): CEHS 200 or TEAC
331; TEAC 197Q, 259, 297Q, 330, 446; EDPS
Professional Education (28 hours):TEAC 397Q,
453I, 453N, 453P, 453T, 453W, 453V, 497Q,
497Y, 497Z; SPED 401B.
Choose two subject areas (20-25 hours each):
Students must select two groups of study from
the following seven subject groupings. Credits in
each area vary. Discuss employment opportunities with academic advisor before selecting.
Art (22 hrs). ARTP 143, 140A, 140B, 141A,
141B 2 hrs each; PANT 251 3 hrs; either AHIS
101 or 102 3 hrs. Select two courses for 6 hrs
from: SCLP 211, CERM 231, or PRNT 241
3 hrs each.
Child, Youth and Family Studies (23 hrs).
Either CYAF 222 or 333 3 hrs; CYAF 280,
401/801, 402/802 3 hrs each; NUTR 131 or
253 3 hrs; NUTR 244/245 4 hrs;TXCD 123
3 hrs.
Industrial Technology (21 hrs). TEAC 101,
104, 109, 242, 303, 424 3 hrs each; Either
TEAC 102 or 103 3 hrs.
Language Arts (24 hrs).TEAC 438 and 439 3
hrs each; ENGL 252 or 253 3 hrs; ENGL 254
or 354 or 357 3 hrs; ENGL 220 or 322A 3 hrs;
TEAC 411 or 441 3 hrs. Select one course
from: ENGL 332 or 333M or 361A or 361B 3
hrs. Select one course from: ENGL 212 or 215E
or 215J or 244 or 244A or 245D or 245J or
315A or 315B or 414 or 414B or 445 3 hrs.
Mathematics (23 hrs). MATH 106 5 hrs;
STAT 218 3 hrs; MATH 300M, 302 3 hrs each;
MATH 304 or 306 or 310 3 hrs; MATH 203 or
405 3 hrs; MATH 301 or 350 3 hrs.
Natural Science (20-25 hrs). GEOL 101 4 hrs;
BIOS 232 3 hrs; PHYS 260 3hrs & 261 3 hrs &
262 1 hr or PHYS 115 3 hrs & CHEM 109 4 hrs
& ASTR 103 3 hrs; and AGRO 131 3 hrs & 132
1hr or ENTO 108 3 hrs & 116 1 hr or ENTO
115 3 hrs & 116 1 hr or ENTO 410 3hrs; and
BIOS 101 & 101L 4 hrs.
Social Science (24 hrs). POLS 100 3 hrs;
HIST 101*, 120, 201, 202* 3 hrs each; GEOG
272 3 hrs; ECON 211 3 hrs; HIST 359 or 360
3 hrs. (* or approved course)
Mild/Moderate Disabilities. (Grades 7-12)
34 hrs: SPED 406A 1 hr, 201, 302, 303, 304,
310, 406, 407, 408, 480, 496 3 hrs each; SPED
405 or 436 or TEAC 441 3 hrs.
NOTE: Professional education requirements
include: CEHS 200 or TEAC 331 3 hrs; EDPS
251 or 451 3 hrs; EDPS 297 1 hr; TEAC 259,
330 3 hrs each; EDPS 362 or 457 3 hrs; SPED
497M 11 hrs; SPED 497Z, 498 1 hr each.
Mild/Moderate Disabilities (Grades 7-12)
and Deaf or Hard of Hearing (pre-professional). Students earn certification in mild/
moderate disabilities and a bachelors degree in
education. See Mild/Moderate Disabilities
(Grades 7-12) program for a list of courses. To
earn certification in Deaf or Hard of Hearing
Education, students must continue with the
Deaf or Hard of Hearing graduate program.
Deaf or Hard of Hearing Education
(pre-professional): 25-31 hours: SLPA 101,
102, 201, 202 4 hrs each; either SLPA 250 and
271 and 472 3 hrs each or 850 3 hrs; either
SLPA 452 or 251 3 hrs; SPED 472 3 hrs.
Mild/Moderate Disabilities: (Grades 712) 34 hrs: SPED 406A 1 hr, 201, 302, 303,
304, 310, 406, 407, 408, 480, 496 3 hrs each;
SPED 405 or 436 or TEAC 441 3 hrs.


Supplemental Undergraduate Endorsements

To pursue a supplemental endorsement, students must either hold a valid teaching certificate or be admitted to a teacher education program.

Coaching. (Grades 7-12) 15 hours AT H 235 3 hrs at H C 279 and 493 hrs each; 6 hrs selected from AT H C 311, 312, 317, 318.

Cooperative Education-Diversified Occupations. (9 hours) TEAC 424 or 815 3 hrs; TEAC 425 or 825 3 hrs SPE D 435/835 or 434/834 3 hrs.

NOTE: Endorsement in business, marketing, or industrial technology required.

English as a 2nd Language-Undergraduate. (Grades K-12) 21 hrs TEAC 213 and 438 3 hrs each; TEAC 441 or 411 or 411A or 411B 3 hrs TEAC 413A, 413B, 413D, 413T 497E 3 hrs.

English as a 2nd Language-Graduate. (Grades K-12) 19 hrs TEAC 438/838 or 813K 3 hrs; 841 or 811 or 811A or 811B 3 hrs; 813A, 813B, 813D 3 hrs each, 897E 1 hr; TEAC 813 or COM M 950 or 950B 3 hrs.

High Ability Education. (Grades K-12). Please contact John Bernthal at 472-5496. This program is offered jointly with the University of Nebraska at Kearney. For additional program information, please contact Dr. Joan Lewis at U N - K (at 308) 865-8611.

Information Technology (undergraduate). (Grades K-12) 17 hours TEAC 323,451L, 444 3 hrs each; TEAC 397L 1 hr; CSCE 101, 150 3 hrs each; CSCE 101L 1 hr.

Vocational Special Needs. (Grades 7-12) 15 hours TEAC 434 3 hrs SPE D 435, 436 3 hrs each; 6 hrs from SPE D 201, 400, 437.

Graduate Level Teaching Endorsements

Assessment Leadership. (Grades P-12) 18 hours T EAC 890, 893 3 hrs each; 991, 993 6 hrs each.

Behaviorally Disordered. (Grades P-6) 40 hours SPE D 800 (prereq), 802, 803, 804, 841, 896, 907B, 908, 942 3 hrs each, 897B 6 hrs, 897Z 1 hr; EDPS 850 3 hrs EDUC 800 or SLPA 854 3 hrs

Behaviorally Disordered. (Grades P-12) 40 hours SPE D 800 (prereq), 802, 803, 804, 841, 886, 907B, 908, 942 3 hrs each, 897B 6 hrs, 497Z 1 hr. Supporting courses 6 hrs EDPS 850 or EDPS 851 or EDPS 889. Guided elective 3 hrs.

Counselor, School Guidance. (Grades K-6) 47 hours (C candidates must meet existing requirements for admission into a masters degree program in educational psychology. The student must have a valid teaching or special services certificate and must have two years of teaching experience. Students are expected to meet endorsement requirements as part of the degree.
program.) EDPS 850, 853, 859, 952 or 985, 965A, 984, EDUC 800, 866, 868, 870, 964, 974, 975, 976. 3 hrs each; 997A, 997B 4 hrs each.

**NOTE:** To complete K-12 endorsement, student may add EDPS 851 and 997B.

**Counselor, School Guidance.** (Grades 7-12) 47 hours (Candidate must be admitted into a masters degree program in educational psychology or, in the case of an already existing graduate degree, must be reviewed and meet the existing admission requirements.) The student must have a valid teaching or special services certificate and two years of teaching experience.) EDPS 851, 853, 859, 952 or 985, 965A, 984, EDUC 800, 866, 868, 870, 964, 974, 975 3 hrs each, 997A, 997B 4 hrs.

**Defect or Hard of Hearing/Field.** (Grades P-12) 47 hours (Candidate must admit to a Baccalaureate degree, be admitted to UNL Graduate College, be admitted to the UNL Department of Special Education and Communication Disorders, and have passing scores on the reading, math, and writing sections of the PPST test. Proficiency requirements: ASL proficiency. Passing score of 2.75/5.0 on the Sign Communication-Proficiency Interview (or successful completion of an equivalent course: SLPA 101, 102, 201, 202 4 hrs each.)

62 hours (TEAC 259 or 880A, either 430/ 830 or 431/831 or 434/834, either 330 or 861 or SLPA 488/888, EDPS 450 or 851 or 852, either 362 or 457 or 854 or PSYC 861) 3 hrs each; SPED 804; SPED 806 or 862, 872, 896 3 hrs each; SLPA 251, 250, 880, 956 3 hrs each; SPED 873, 874 4 hrs each; SPED 897D 5 hrs SPED 497Z 1 hr.

**Defect or Hard of Hearing/Subject.** (Grades P-12) General requirements: Students must hold an initial certificate in elementary education, M Idaho Graduates, or Special Education-M Idaho/Oberate Disabilities. Students without a Special Education certificate are required to take a four-course series in Special Education. Proficiency requirements: Demonstrated proficiency in American Sign Language. Successful completion of SLPA 202 or minimum score on Sign Communication Proficiency Interview. 41 hours SPED 800, 802, 810, 812, 896, 897D, SLPA 251, 850, 884, 956 3 hrs each; SPED 873, 874 4 hrs each.

**Early Childhood Education.** (Grade P-3) 30-31 hours (Prerequisites: Must hold an initial certificate in elementary education, M Idaho Graduates, or Special Education-M Idaho/Oberate Disabilities.) Contact Special Education and Communication Disorders at 472-2141.

Early Childhood Education. (Grade P-3) 27 hours (Prerequisites: Teaching Certificate Endorsement in Elementary Education (K-6) or Early Childhood Education (P-3) or UNL in Early Childhood Education (Birth thru grade 3) and completion of the equivalent of: SPED 800 and 802 (or CYAF 474/874, 803 or 304 or 401/801), 804 and 315 3 hrs each.

Required courses in: trends in early childhood (or equivalent), preschool development (cognition or language) 3 hrs each and SPED 860, 861, 862, 863, 882, 960 and 897Q (or equivalents) 3 hrs each.

**Information Technology (graduate).** (Grades K-12) 19 hours (TEAC 851L, 860, 862A, 862B, 862D, 882) 3 hrs each; TEAC 894L 1 hr.

**Learning Disabilities.** (Grades K-6) 40 hours (SPED 800 (prereq), 802, 803, 804, 815A, 831, 907L, 908, 932 3 hrs each; SLPA 887 and EDPS 853 3 hrs each; SPED 815A 1 hr, 897L or 997E 3 hrs each; 804A 1 hr.)

Supporting courses 3 hrs Candidates select: either SPED 805 or TEAC 808 or 811.

**Learning Disabilities.** (Grades K-12) 43 hours (SPED 800 (prereq), 802, 803, 804, 831, 907L, 908, 932 3 hrs each; 897L or 997E 6 hrs; SLPA 887 3 hrs; SPED 806 or 815 3 hr; 800A or 815A 1 hr.)

Supporting courses 6 hrs Candidates with current K-6 endorsement select: two courses from EDPS 851, SPED 805, 807 or 836. Candidates with current 7-12 endorsement select: two courses from EDPS 850, SPED 805, TEAC 808 or 811. Candidates with current K-12 endorsement: 6 hrs selected with advisor.

**Learning Disabilities.** (Grades K-12) 40 hours (SPED 800 (prereq), 802, 803, 804, 806, 807 or 808, 831, 907L, 908, 932 3 hrs each; 806A 1 hr; SLPA 887, EDPS 853 3 hrs each; SPED 897L or 997E 3 hrs.

**Library Media Specialist.** (Grades K-12) This program is offered jointly with the University of Nebraska at Omaha. Please contact Dr. Besky Paico at UNO at (402) 954-2119 for advising.

**Mild/ Moderate Disabilities.** (Grades K-9) 40 hours (Candidate must hold an elementary education endorsement plus the following courses: SPED 802, 803, 804, 815A, 831, 907L, 908, 932 3 hrs each; 806A 1 hr; SLPA 887, EDPS 853 3 hrs each; SPED 897L or 997E 3 hrs.)

**Pre-School Disabilities.** (Birth thru K) 30 hours (Prerequisites: Teaching Certificate Endorsement for special education or speech pathology with completion of: SPED 800 and 802 (or CYAF 474/874) (or equivalent) 3 hrs each. Required courses: Trends in early childhood (or equivalent), preschool development (cognition or language) 3 hrs each and SPED 804, 860, 861, 862, 882, 8970, 960 (or equivalents) 3 hrs each.)

**Special Services Endorsements**

**School Psychologist.** (Grades P-12) 76-85 hours (Candidates must hold a masters degree in educational or clinical psychology, education, or a related field. This is an educational specialist degree program: EDPS 859 or equivalent, 870 or equivalent, 865 or equivalent; SPED 808, 952 or 954 3 hrs each; 950, 951 4 hrs each; 996A 6 hrs 958A or 959 7 hrs 957B, 958B 8 hrs each; EDUC 800 or equivalent and 9008 3 hrs each; SPED 808, 802 or equivalent 3 hrs each.)

**School Transition Specialist.** (Grades 7-12) 18 hours (SPED 800 or 834, 807, 808 or SPED 893, 835 or 836, 837 or 896, 908 3 hrs each.)

**Administrative and Supervisory Standard Certificates**

**Standard Certificate Requirements**

The completion of a masters degree or 36 hours of a specialist program and the fulfillment of the State Department of Education Guidelines for Certification are required to obtain the Standard Administrative and Supervisory Certificate. A minimum of 3 hours must be taken at the University of Nebraska-Lincoln. All individuals seeking certification for an administrative certificate must hold or qualify for a Standard Teaching Certificate. The following endorsements on the certificate are available through the College of Education and Human Sciences. Candidates must have on file a program approved by the Department of Educational Administration.
Assessment Leadership. Refer to Graduate Level Teaching Endorsements for list of courses.

Curriculum Supervisor. (Grades P-12) 36 hours EDAD 811, 830, 851, 903, 948; TEAC 800, 801, 888 3 hrs; Select one core from EDAD 833, 837, or 852 3 hrs; Select two courses from T E A C 846A, 846B, 848, 944, 944A, 944B, 944D, 944E 3 hrs each (6 total); Select one core from TEAC 830, 831, 832, 834, 840, 840A, 840B, 840D, 861, 902 3 hrs.

NOTE: Students must be admitted to both educational administration and curriculum and instruction and meet exit requirements for both departments.

Principal, Elementary. (Grades P-8) 36 hours: a) EDAD 811, 830, 833, 887, 851, 852, 903, 981 3 hrs each; b) T E A C 801 or 848 or 944 or 944 3 hrs; and T E A C 800 or 946 or 948 3 hrs;
c) approved College of Education and Human Sciences course other than educational administration or curriculum and instruction 3 hrs;
d) approved elective 3 hrs. M ust complete satisfactorily a Professional Portfolio. M ust either hold teaching endorsement valid for elementary school grades or earn additional 9 hrs pertaining to elementary school level.

NOTE: Applicant must have met Nebraska Department of Education requirements for basic skills, human relations training, special education, and two years of teaching experience.

Principal, Middle Grades. (Grades 4-9) 36 hours: a) EDAD 811, 830, 833, 887, 851, 852, 903, 981 3 hrs each; b) T E A C 801 or 848 or 944 or 944 3 hrs; and T E A C 800 or 946 or 948 3 hrs;
c) approved College of Education and Human Sciences course other than educational administration or curriculum and instruction 3 hrs;
d) approved elective 3 hrs. M ust complete satisfactorily a Professional Portfolio. M ust either hold teaching endorsement valid for middle school grades or earn additional 9 hrs pertaining to middle school level.

NOTE: Applicant must have met Nebraska Department of Education requirements for basic skills, human relations training, special education, and two years of teaching experience.

Principal, Secondary. (Grades 7-12) 36 hours: a) EDAD 811, 830, 833, 887, 851, 852, 903, 981 3 hrs each; b) T E A C 801 or 848 or 944 or 944 3 hrs; and T E A C 800 or 946 or 948 3 hrs;
c) approved College of Education and Human Sciences course other than educational administration or curriculum and instruction 3 hrs;
d) approved elective 3 hrs. M ust complete satisfactorily a Professional Portfolio. M ust either hold teaching endorsement valid for secondary school grades or earn additional 9 hrs pertaining to secondary school level.

NOTE: Applicant must have met Nebraska Department of Education requirements for basic skills, human relations training, special education, and two years of teaching experience.

Supervisor of Special Education Programs. (Grades P-12) 36 hours EDAD 800 6 hrs, 811, 981 3 hrs each, EDAD approved electives 6 hrs EDAD/SPED 857, 858 3 hrs each; 12 hrs approved graduate courses in special education, 6 of which are outside of person’s endorsement area, taken within past 6 years.

NOTE: Special education endorsement required and 2 years of successful teaching experience.

Supervisor of Speech-Language Pathology and Audiology. (Grades P-12) 36 hours EDAD 800 6 hrs, 811, 981 3 hrs each, EDAD approved electives 6 hrs EDAD/SPED 857, 858 3 hrs each; 12 approved graduate hours in speech pathology and audiology taken within last six years. M asters degree and endorsement in speech pathology or audiology required and Certification of Clinical Competence (ASHA).

Administrative and Supervisory Professional Certificates

The completion of the specialist program and the fulfillment of the State Department of Education Guidelines for Certification are required to obtain the Professional Administrative and Supervisory Certificate. All individuals seeking certification for an administrative certificate must hold or qualify for a Standard Teaching Certificate. The following endorsements on this certificate are available through the College of Education and Human Sciences. Advisement for all specialist programs is through the Department of Educational Administration.

Superintendent. (Grades P-12): 66 hours Prepr: M ust have a valid regular teaching certificate or an administrative and supervisory certificate (principal, curriculum supervisor) and at least two years of teaching experience. a) Educational Administration 42 hrs EDAD 801, 830, 833, 835, 837, 851, 852, 901, 903, 904, 905, 981, 998 hrs each; b) Teaching Learning and Teacher Education 6 hrs TEAC 801 or 848 or 944, and either T E A C 800 or 946 or 948; c) supporting area other than Educational Administration or Teaching and Learning Teacher Education 3 hrs; d) approved electives 15 hrs.

Non-Endorsement Programs

N on-teaching degree programs in administrative resource management, technical education, and audiology are available.

Technical Education

This non-certified program is intended primarily for individuals with an associate degree who are teaching or who plan to teach in a technical industrial area at the post-secondary level and/or those intending to enter into business or industry.

Program Requirements. (45+ hours) See adviser for specific courses. M ajor Area (51 hrs): Associate degree from a technical, post-secondary school in one specialized field (42 hrs); T E A C H 800 3 hrs, 831 3 hrs, 836 3 hrs, and 3 hrs of elective from either the Industrial Technology of Business Education/Cooperative Education Endorsement programs: Professional Education (31 hrs); T E A C H 331 or 430 or 433 or 434 3 hrs each, 451K, 452M, 424 3 hrs each, 397A 1 hr, 491 6 hrs SPED 434 3 hrs EDPS 451, and either 454 or 457 3 hrs each; A L E C 308 3 hrs.

Audiology Option

This option is intended for undergraduate students who wish to major in the area of Communication Disorders with an emphasis in audiology and who ultimately expect to enter graduate school and obtain a masters degree in audiology. It is assumed that these students will NOT wish to be certified in the classroom.

It is highly recommended that students pursue the bachelor of science in education: N on-Teaching Endorsement Program (B.S.ed). The following curriculum is based upon the requirements for that degree.

In addition to the education general requirements students must complete the following: SLPA 101, 150, 250, 251, 271 (3 hrs each), 397A (1 hr), 455, 456 (4 hrs each), 421, 472, 473 (3 hrs each); PSY C 463, 465 (3 hrs each).

NOTE: Students in audiology need the following specific courses which also fulfill general education requirements B I O S 101/101L, 212/213L; M A T H 122, 124 or 126; PHY S 141; PSY C 181.

Minors in Education

African American Studies Minor

Students in teacher preparation may obtain a minor in African American Studies by satisfactorily completing a minimum of 18 credit hours of work as prescribed by the adviser for the African American Studies minor in the College of Arts and Sciences. Students must file a C-D-M-A (College-Degree-Major-Advisor) form with the College Student Services Center prior to filing for graduation.

Coaching Minor

Students in the College of Education and Human Sciences who are not seeking teaching certification may obtain a coaching minor by satisfactorily completing the coaching supplement endorsement. Students must file a C-D-M-A (College-Degree-Major-Advisor) form with the College Student Services Center prior to filing for graduation.

Area of Specialization

Multicultural Education. It is possible to obtain multicultural education specialization along with a teaching endorsement. Basic requirements are as follows: T E A C 330, 433, 434, 436, and approved elective; 12 hrs selected from T E A C 862, 862, 245, 245, 245D, 445; H I S T 357; P O L S 428; S O C 217, 218, O 481; C O M M 211 or 380. An approved field/practicum experience outside of normal class assignments (3 cr); student teaching in a multicultural setting; and demonstrated language proficiency through course work or testing in one of the following languages: Spanish, Vietnamese, Sioux, Lakota/Dakota, Portuguese, Chinese, Japanese, German, Czech, Russian or French.

For more information, contact Teaching, Learning and Teacher Education.

Graduate Work in Education

M ajors in education leading to the indicated graduate degrees are:
Education (Doctoral)
Administration, Curriculum, and Instruction--EdD, PhD
Community and Human Resource--EdD, PhD
Psychological and Cultural Studies--EdD, PhD

Education (Masters and Specialists)
Curriculum and Instruction--M A, M Ed, M ST, EdS
Educational Administration--M A, M Ed
Educational Psychology--M A, EdS
Health and Human Performance--M Ed, M PE, EdS
Special Education--M A, M Ed
Special Education and Communication Disorders--EdS
Speech-Language Pathology and Audiology--M S, EdS
Vocational and Adult Education--M A, M Ed, EdS

In addition to the above degrees, work leading to a Certificate of Specialization in Administration and Supervision is offered in the Department of Educational Administration. Courses of study are provided for specialization in administration and supervision of the central school office, secondary and elementary schools, curriculum, instruction, community college, media centers, special education, and the area of speech pathology and audiology.

For information on graduate work in education, consult the Graduate Bulletin and The Web site, tc.unl.edu/grad.

Seniors in this University who have obtained in advance the approval of the Dean of Graduate Studies may receive up to 12 hours credit for graduate courses taken in addition to the courses necessary to complete their undergraduate work, provided that such credits are earned within the calendar year prior to receipt of the bachelor's degree. (For procedures inquire at the Office of Graduate Studies, 301 Centennial Administration Building.) Course work taken prior to receipt of the bachelor's may not always be accepted for transfer to other institutions as graduate work.

Seniors at UNL needing not more than 9 hours of undergraduate credit to complete the bachelor's degree and wishing to register for graduate credit may be granted admission to Graduate Studies on a provisional basis subject to receiving their baccalaureate within one calendar year. They must file applications to Graduate Studies and, if admitted, their graduate registrations may count as residence in the Graduate College.

Courses of Instruction in Education

Prerequisites: In addition to the specific prerequisites of each course, the general prerequisites for all courses in the 400 series consists of not fewer than 12 hours of undergraduate credit in education, including 3 hours of educational psychology and 3 hours of educational methods.

Workshop Seminars in Education
490/890, 493/893, 590 or 993. Workshop Seminar (1-12 cr) Opportunity to learn and to put into practice the principles and techniques of developing instructional aids such as courses of study, resource units, handbooks, and motion picture guides.

Teaching, Learning and Teacher Education (TEAC)
Chair: Professor Thomas M. McGowan
Professors: Andrews, Arth, Bonnstedt, Brooks, Garcia, Harnick, Hostetler, Moeller, O'Hanlon, Walter
Associate Professors: Fowler, Hoxton, M. Latta, M. Chinmay, Sarbou, Steckelberg, Swidler, Wandszik, Wundner
Assistant Professors: Chan, H. aman, Rabile, Reeves, Trainin, Wilson

Workshop Seminar in Education, including 3 hours of educationally related work. Prerequisite of each course, the general prerequisite: 490/890, 493/893, 990 or 993. Workshop Seminar in Education

Theory and practice of industrial processing of wood and synthetic materials Structure and management of manufacturing industries.


259. Instructional Technology (3 cr)LEC. Development of strategies for using technology to support K-12 classroom instruction. Electronic portfolios, Internet resources, applications software, and authoring programs.

297. Practical Practicum Experiences (EDPS, NUTR, SPE 205) (1-4 cr, max 12) A supervised experience is included where the professional role of the teacher is discussed. Guided placement/observation in school agencies offering programs for children/young adults.

A. Elementary (1-4 cr, max 4) Parallel EDPS 250.
B. Elementary (1-4 cr, max 4) Parallel TEAC 351.
I. Secondary Art (1-4 cr, max 4)
J. Secondary Business Education (1-4 cr, max 4)
M. Secondary Educational Leadership (1-4 cr, max 4)
N. Secondary Language Arts (1-4 cr, max 4)
O. Secondary Marketing Education (1-4 cr, max 4)
P. Secondary Mathematics (1-4 cr, max 4)
Q. Middle Level (1-4 cr, max 4)
R. Secondary Music Languages (1-4 cr, max 4)
V. Secondary Science (1-4 cr, max 4)
W. Secondary Social Science (1-4 cr, max 4)

300. Industrial Experience (1-6 cr) Prerequisite: Permission. O cational experience or supervised occupational experience in conjunction with directed observation to meet vocational industrial teacher certification requirements.

301. Industrial Graphics (3 cr) Printing, desktop publishing, silk screening, and photography.

302. Children's Literature (3 cr) Prerequisite: Admission to the Teacher Education Program. Reading in the broad field of children's literature. Survey of various genres/kinds of books, authors, poets, illustrators, historical development; contemporary topics and trends. Principles and practices in selection and adaptation of literature to the needs of the child. Presentation and instructional methodology.

303. Energy, Power and Transportation Technology (3 cr) LEC, LAB. Prerequisite: TEAC 101. 109, 203, 204, and 205. TEAC 203 is a synthesis of skill-based courses for Industrial Technology Education (ITE) majors. Design, construct, and test a one-person electric vehicle. Enter the vehicle in a statewide competition.


307. The Arts in the Elementary School (4 cr) LEC, LAB. Prerequisite: Admission to the Elementary Teacher Education Program or the Inclusive Education Program. Exploration and experiences with the arts. Supporting ways to include and promote the arts within the curriculum of the elementary school.

306. Teaching Art in the Elementary School (3 cr) Prerequisite: Admission to Elementary Teacher Education Program. ARTT 117 or equivalent. The guidance of art through the elementary school in accordance with the growth and development of the child. Objective, materials, and methods for meaningful teaching of art.

307. Teaching Social Studies in the Elementary School (3 cr) Prerequisite: Admission to the Elementary Teacher Education Program; 6 hrs social sciences TEAC 297B and/or EDPS 367. The role of content, materials and trends of social studies in childhood education; selection and use of learning experiences; development of lesson plans and/or teaching unit.

308. Teaching Mathematics in the Elementary School (3 cr) LEC, LAB. Prerequisite: Admission to the Elementary Teacher Education Program and Parallel MATH 300, TEAC 297B, and/or TEAC 351. Scope, content, and organization of the mathematics curriculum; development, use, and sources of instructional materials teaching procedures.

310. Educational Program for Kindergarten Children (2 cr) Prerequisite: Admission to the Elementary Teacher Education Program; CYAF 270 and EDPS 362, or permission. Recent developments in educational programs and their bearing on the integration of a proper curriculum and appropriate materials for the kindergarten child. Related functions of home, school, and other educational agencies.

310. Educational Program for Kindergarten Children (2 cr) Prerequisite: Admission to the Elementary Teacher Education Program; CYAF 270 and EDPS 362 or permission. Recent developments in educational programs and their bearing on the selection and guidance of appropriate activities and materials for the kindergarten child. Related functions of home, school, and other educational agencies.

310. Educational Program for Kindergarten Children (2 cr) Prerequisite: Admission to the Elementary Teacher Education Program; CYAF 270 and EDPS 362 or permission. Recent developments in educational programs and their bearing on the selection and guidance of appropriate activities and materials for the kindergarten child. Related functions of home, school, and other educational agencies.
[IS] 311 Teaching Reading in the Elementary School (3 cr) Prereq: Admission to the Elementary Teacher Education Program; TEAC 297B and 298; EDPS 362; Parallel TEAC 397A.

[IS] 313 Teaching Language Arts in the Elementary School (3 cr) Prereq: Admission to the Elementary Teacher Education Program; TEAC 297B and 351; EDPS 362; Parallel TEAC 397A.

Theory and practice of teaching the language arts in the elementary school. Selection, construction, and use of instructional materials for and with elementary children.

[IS] 315 Teaching Science in the Elementary School (3 cr) Prereq: Admission to the Elementary Teacher Education Program; two courses in science; TEAC 297B and 351; EDPS 362.

Role, trends, content, and materials of science in childhood education; development of science experiences for use with children.

[IS] 323 Career and Technical Education: Multimedia Applications (3 cr)

Integrating instructional multi-media applications into Career and Technical Education courses.

[ES][IS] 330 Multicultural Education (ETHN 330) (3 cr) Prereq: TEAC 297B.

Role of minority group status in American society. Ethnic minority group cultures, the existence of subcultures within the mainstream of society, women in the social setting, and their relationship to the American education process. Analytic methods of study.


Selection and evaluation of the perspective of history, sociology, and philosophy. Team taught with lectures, discussions, and essay examinations.


Introduction of OTTE 243. Machine woodworking on a major individual project. Includes wood finishing and maintenance of hand and power tools.

[IS] 346 Advanced Modern Industries (3 cr) Prereq: TEAC 101, 204, 205, and 246.


[IS] 349 Seminar in Middle Level Education (1 cr, max 3) Prereq: Permission.

Active involvement with the philosophy, duties and demands of middle level education, related readings and professional role of middle level educators in a seminar setting.

[IS] 35L The Learner Centered Classroom (2 cr) Lec 2.

Prereq: Admission to the Elementary Teacher Education Program or Special Education/Elementary Education or Early Childhood Elementary Education. Parallel TEAC 297B; TEAC 308, and MATH 300.

Organizing the learning environment in a culturally and socially responsive classroom. Theory and practice of creating a cooperative community that fosters both social and academic development.


The integration of elementary subjects through movement activities and the understanding of healthy concepts. Socially responsive classroom. Theory and practice of creating a cooperative community that fosters both social and academic development.

[IS] 397 Professional Practicum Experience III (EDPS, SPED 397) (1-10 cr, max 10) Prereq: Admission to Teacher Education Program.

Guided observations and/or clinical experiences in schools and/or agencies offering programs for children and/or youth.

A. Elementary Level (1-10 cr) A capstone seminar is included where the professional role of the teacher is discussed.

B. Unified Primary K-3 (EDPS, SPED 397D) (1-10 cr) A capstone seminar is included where the professional role of the teacher is discussed.

R. Secondary Modern Languages (1-10 cr) A capstone seminar is included where the professional role of the teacher is discussed.

S. Social Studies and Science Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel TEAC 397D.

D. Mathematics Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel MATH 200.

428/429 Instructional Communication (COMM 428/429) (1-2 cr) Prereq: Junior standing and M.C. of Education.

[IS] 430 Introduction to Philosophy of Education (3 cr) Prereq: Open to all undergraduate and graduate students.

Fundamental ideas and skills that students can use to begin to form personal philosophical perspectives on education that can be justified intellectually, practically, and ethically. Using case studies of real world situations and the theoretical work of a range of writers in education, students explore the conceptions of teaching, learning, curriculum, and the relationship between school and society.

431/431 History of Education in the United States (3 cr)

Social, economic, political, and religious factors as they relate to the development of American public schools and ideals of democracy.

432/432 Higher Education in America (3 cr) Prereq: 12 hrs education.

History and development of American colleges and universities and recent trends and problems in higher education.

[IS] 434/434 Ethics and Education (3 cr) Prereq: Open to all undergraduate and graduate students.

Basic issues in ethics and education. Using theoretical material and case studies, students consider such issues as the nature of moral judgment, equality, justice, caring, and respect for persons, and discuss how educators might respond in ethically justifiable ways to difficult situations they may encounter.

436/436 Latin American Education (3 cr) Prereq: 12 hrs education, social sciences or Latin American Studies or permission.

Survey of contemporary problems and practices in Latin American education, with special emphasis on the role of education in the national development.

[IS] 437 Democracy and Education (3 cr)

Democracy and how educational institutions and practices might facilitate or hinder democratic processes and aims. The role of cultural pluralism in the United States, and to the educational responses to pluralism that are possible and appropriate in a polity that aims to be democratic. Range of issues on these topics.

438/438 Linguistic Diversity in the Classroom: School Teacher (3 cr) Prereq: Admission to the Teacher Education Program.

Analysis of various aspects of linguistic study, including dialects, usage, modern grammar, semantics, lexicography, etc., and their application in the K-12 school English classroom. Investigation and clarification of language concepts and the development of teaching materials that can be used in the classroom.

439/439 Literature for Adolescents (3 cr) Prereq: Admission to Teacher Education Program.

Wide range of young adult literature available for use in schools. Critical and historical tools for responding to a variety of literary texts and techniques for eliciting a wider range of responses to literature; consideration for readers aged 11-16.

440 Sociology of Education (3 cr) Prereq: 12 hrs education, including 3 hrs educational psychology and 3 hrs educational methods.

Description and explanation of cultural values as they relate to education, social-class systems and education, and role behavior of students and educators.

441/441 Content Area Reading, Grades 4-12 (3 cr)

Simultaneous teaching of academic content and functional teaching of reading in the content areas assessment of comprehension, vocabulary, concept attainment, analyses of test, improvement of content area learning through reading/writing development.

443 Career and Technical Education: Curriculum Issues (3 cr)

Curriculum issues in Career and Technical Education courses using instructional technology. Subject matter integration, application of standards, use of web-based resources and resource management.

444 Career and Technical Education: Technology Issues (3 cr)

Technology issues and the impact on society of access, privacy, confidentiality, ethics and emerging technologies; professional attitudes and responsibility in using technology.

454 Managing Industrial Education Laboratory (3 cr) Prereq: TEAC 311.

Planning, organization, and instructional management of industrial education facilities with emphasis on developing a proactive safety program.
452/852. Curriculum Principles and Practices (3 cr)
Culminating experience in a program for the preparation of middle level educators. Emphasis on teaching and learning as observed in coursework, professional experience, and classroom teaching experiences. Prereq: Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better. Theoretical issues in the area of teaching and learning as applied to the individual disciplines.

1. Secondary Art
   Prereq: As listed above and TEAC 397.
   Objectives, curricula, methodology, evaluation, planning, classroom management and course organization.

2. Secondary English
   Prereq: As listed above and TEAC 397.
   Planning, teaching, and evaluating language arts lessons for secondary students.

3. Secondary Language Arts
   Prereq: As listed above and parallel with TEAC 397.
   Theoretical issues in the area of teaching and learning as applied to the individual disciplines.

4. Secondary Modern Languages
   Prereq: As listed above and parallel with TEAC 397.
   Theoretical issues in the area of teaching and learning as applied to the individual disciplines.

5. Secondary Social Science
   Prereq: As listed above and parallel with TEAC 397.
   Planning, teaching, and evaluating language arts lessons for secondary students.

6. Secondary Science
   Prereq: As listed above and parallel with TEAC 397.
   Theoretical issues in the area of teaching and learning as applied to the individual disciplines.

7. Mathematics
   Prereq: As listed above and parallel with TEAC 397.
   Planning, teaching, and evaluating language arts lessons for secondary students.

8. Special Topics
   Prereq: As listed above and parallel with TEAC 397.
   Theoretical issues in the area of teaching and learning as applied to the individual disciplines.

M. Industrial Education
   Prereq: As listed above and TEAC 397.
   Objectives, curricula, methodology, evaluation, planning, classroom management and course organization.

N. Secondary Language Arts
   Prereq: As listed above and parallel with TEAC 397.
   Planning, teaching, and evaluating language arts lessons for secondary students.

O. Secondary Modern Languages
   Prereq: As listed above and parallel with TEAC 397.
   Theoretical issues in the area of teaching and learning as applied to the individual disciplines.

P. Secondary Social Science
   Prereq: As listed above and parallel with TEAC 397.
   Planning, teaching, and evaluating language arts lessons for secondary students.

Q. Secondary Science
   Prereq: As listed above and parallel with TEAC 397.
   Theoretical issues in the area of teaching and learning as applied to the individual disciplines.

R. Secondary Mathematics
   Prereq: As listed above and parallel with TEAC 397.
   Planning, teaching, and evaluating language arts lessons for secondary students.

S. Secondary Art
   Prereq: As listed above and parallel with TEAC 397.
   Theoretical issues in the area of teaching and learning as applied to the individual disciplines.

T. Mathematics
   Prereq: As listed above and parallel with TEAC 397.
   Planning, teaching, and evaluating language arts lessons for secondary students.

U. Special Topics
   Prereq: As listed above and parallel with TEAC 397.
   Theoretical issues in the area of teaching and learning as applied to the individual disciplines.


**890. Workshop Seminar (1-12 cr)** Prereq: By application only (Gifted and Talented Program).

**899. Masters Thesis (1-12 cr, max 12)**

**870. Music for the Exceptional Child (1 cr)**

**873. Approaches to Middle School General Music (M U E D 873) (3 cr)**

**881. Music in Early Childhood Education (M U E D 881) (3 cr) Prereq: Permission.**

**885. Education of Gifted Children (SPED *855) (5 cr) Prereq: Permission.**

**886. Assessment, Evaluation and Remedial Instruction in School Literacy (S P E D 886) (3 cr)**

**896. Workshop Seminar (1-12 cr, max 12)**

**897. Student Teaching: Gifted and Talented (E D P S, S P E D 897) (1-12 cr) Prereq: By application only (Gifted and Talented Program).**

**899. Masters Thesis (6-10 cr)**

Refer to the Graduate Bulletin for 900-level courses.

### Athletic Practice (ATHP)

Students eligible to enroll in athletic practice and conditioning courses may earn a maximum of 4 hours of credit toward graduation.

All athletic practice courses are one credit hour and are graded on a Pass/No Pass basis. The prerequisite for all athletic practice courses is “by permission” and “being a member of the varsity team in that sport”.

**101. Athletic Practice (1 cr per sem, max 10) Lab. Prereq: M ember of a varsity sports team and permission.** The maximum credit hours allowed toward the degree vary by college: Pass/No Pass only. Varsity sports practice.

### Athletic Coaching (ATHC)

**EDAD 279. Coaching Effectiveness and Psychological Components of Sports Performance (3 cr) Lec.** Key concepts to becoming an effective coach. Creation of a sound educational philosophy, values development, assessment techniques, practical issues tied to interscholastic coaching, and a review of those psychological factors that can improve sports performance for athletes.

**310. Coaching of Baseball (2 cr)** Individual fundamentals, team development, rules, conditioning problems, and practice in baseball.

**311. Coaching of Basketball (2 cr)** Rules, individual and team play, offensive and defensive strategy; tournament preparation; fundamental drills.

**312. Coaching of Football (2 cr)** Rules, study, and practice of fundamental offensive and defensive skills; application of elementary principles to team play; health and safety practices; equipment and game strategy.

**313. Coaching of Gymnastics (2 cr)** Philosophy and organization involved in coaching gymnastics. Conditioning, skills analysis, and judging of gymnastics events.

**314. Coaching of Softball (2 cr)** Philosophy of coaching, analysis of skills, strategy, selection of team members, rules, and officiating of softball.

**315. Coaching of Swimming and Diving (2 cr)** Philosophy of coaching, conditioning, basic hydrodynamics, skill analysis, organization of practice and training techniques as applied to swimming and diving.

**316. Coaching of Tennis and Other Racquet Sports (2 cr)** Philosophy of coaching, conditioning, analysis of skills, strategies, organization of practice and matches, rules, and officiating as related to tennis. Introduction to badminton, racquetball, and squash.

**317. Coaching of Track (2 cr)** Theory and practice of coaching track including strategy, rules, and training procedures.

**318. Coaching of Volleyball (2 cr)** Philosophy of coaching, conditioning, analysis of skills, strategies, team selection process, officiating, and conduct of practices as related to volleyball.


**350. Coaching Effectiveness (3 cr)** Development, implementation, and assessment of strategies designed to improve team and individual performance. Practice management, program management, and ethical and social issues related to coaching.

**494. Practicum in Coaching (1-3 cr) Prereq: Permission.** Practical experience in coaching in youth sports and interscholastic athletic programs.

### Education and Human Sciences (CEHS)

**400. CEHS Advantage (0 cr I) Lec.** Prereq: CEHS 510 is designed for first semester freshmen who are participating in the College of Education and Human Sciences learning community known as CEHS. Advantages for Pass/No Pass only. Leadership, problem solving, communication and teamwork. Use of creativity by doing a service learning project and explore career possibilities.

**401. Foundations of Modern Education (3 cr) Lec.** Introduction to the role and function of the school in American society. Skill development and orientation to teaching as a career.

**800. Foundations of Educational Research (3 cr) Prereq: Prior or parallel enrollment in EDPS 859, statistical methods, or completion of its equivalent.**

Refer to the Graduate Bulletin for 900-level courses.

### Educational Administration (EDAD)

**Chair: Professor Larry Dingus**

**Professors:** Bryant, Grady, Griesen, Seagren, Stick

**Associate Professors:** Isernhagen, LaCos, Torracco, Urrling

**Senior Lecturers:** Hover, Lammel

**421/821. Foundations of Human Resource Development (3 cr)** Lays the foundation for further study of Human Resource Development (HRD) by examining the knowledge of HRD professionals in terms of the skills, knowledge, and organizational settings in which HRD occurs. The design and development of education and training programs, how change occurs in organizations, how career development can optimize the match between individual and organizational goals and needs, and how to improve performance in organizations by analyzing performance opportunities and designing employee training to address these opportunities.

**422/822. Instructional Design in Human Resource Development (3 cr)** Examines the role of instruction for enhancing human learning and performance in organizations. The analysis of performance problems/opportunities and design of interventions for learning and performance improvement. The essential components of instruction, selecting instructional methods and media to achieve program objectives, the transfer of learning, and evaluating the effectiveness of instruction. The performance enhancing potential of systematically linking needs analysis, instructional design, and program evaluation.

**499H. Honors Thesis (3 cr)** Prereq: Good standing in the University Honors Program or by invitation. Conduct a scholarly research project and write a University Honors Program or undergraduate thesis.

**800. Schooling and Administration (1-9 cr)**

**810. Foundations of Building Administration (3-9, max 9) Prereq: EDAD 800 or equivalent.**

**811. Practicum in Educational Administration and Supervision (3-4 cr) Prereq: Permission.**

**812. Management of School Activities (T E A C *868) (3 cr)**

**830. Administrative Theory in Educational Organizations (3 cr)**

**833. Educational Finance (3 cr)**

**834. Administration of Adult Education Agencies (3 cr)**

**835. Business Management of Schools (3 cr)**

**836. System Planning in Administration (2-3 cr)**

**837. Education Law (1-4 cr)**

**838. Educational Surveys (2-3 cr)**

**839. Educational Facilities (2-3 cr)**

**849. Leadership of Complex Education Organizations (6-9 cr) Prereq: EDAD 800 and 810 or equivalent.**

**856. Supervising Special Education (SPED 856) (3 cr)**

**857. Special Education Administration (SPED 857) (3 cr)**

**858. Special Education Law (SPED 858) (3 cr)**

**890. Workshop Seminar**

**893. Workshop Seminar**

**896. Independent Study (1-6 cr) Prereq: Permission.**

**899. Masters Thesis (6-10 cr)**

The following courses are part of the joint Educational Administration–College of Law graduate program. Only those students who have been fully admitted to the program may enroll in these courses. Details for admission to this program may be obtained at the Department of Educational Administration.

**870. Constitutional Law I (LAW 609) (3 cr)**

**871. Constitutional Law II (LAW 732) (3 cr)**

**872. Introduction to Law, Legal Process, and Legislation (LAW 511) (3 cr)**

**874. Tort I (LAW 503) (1-6 cr, max 6)**

**875. Tort II (LAW 504) (1-6 cr, max 6)**

Refer to the Graduate Bulletin for 900-level courses.
Educational Psychology (EDPS)

Chair: Professor Ralph DeAylia
Professors: Anoroge, Bruning, Cresswel, D. S. Doll, Kiewra, M. Ohman, Newman, Plake, Sheridan, Weissnger
Associate Professors: Evans, Impara, Sched, Sweare
Assistant Professors: Buhs, Caldwell, Hanson, M. Curry, Y. Kushto

097. Mini-Seminar (0 cr) EDPS 097 is graded Pass/ No Pass only.

109. Learning How to Learn (1 cr)
Ideas from educational psychology, cognitive variables and various academic disciplines are presented in order to improve students' learning ability in academic and applied settings.

121. United States Education and Culture (3 cr)
Education and culture in the United States with emphasis on the tools for academic achievement in U. S. universities.

150. Career Development Seminar (1-2 cr)
Two main components: career identification and career information, and the relation between the two make up the course. Active exploration, examination, and pursuit of career possibilities, and theoretical considerations of the relationship to the individual. First credit focuses on self-assessment; second credit on informational resource use.

159. Honors How to Learn and Develop Talent (3 cr) Good standing in the University Honors Program or by invitation only.
Ideas from cognitive psychology, educational psychology, and various other disciplines (i.e., art, music, and child) presented to help students understand and learn talent and develop, improve academic learning skills and improve personal talents.

197. Professional Practicum Experiences (1-4 cr)
Guided participation in schools and/or selected agencies offering programs for children/youth.

209. Strategies for Academic Success (3 cr) Credit towards the degree may be earned in only one of EDPS 109 or 209. Comprehensive application of learning theories and practice of learning strategies related to motivation, time management, everyday lecture note taking, test processing, knowledge representation, test review, test taking, and error analysis in academic settings.

250. Fundamentals of Child Development for Education (3 cr)
Fundamental concepts and principles of human development with reference to cognitive and social/emotional development from infancy to early adolescence. Biopsychosocial forces which affect behavior and development in children in relation to educational practice.

253. Fundamentals of Adolescent Development for Education (3 cr)
Fundamental concepts and principles of human development with reference to cognitive and social/emotional development from late childhood to early adulthood. Biopsychosocial forces which affect behavior and development in adolescents as they relate to educational practice.

297. Professional Practicum Experiences II (TEAC, NUTR, SPED 297 (1-4 cr, max 10) An accompanying seminar is included where the professional role of the teacher is discussed. For course description, see TEAC 297.

A. Elementary (1-4 cr, max 4) Parallel EDPS 250.
B. Elementary (1-4 cr, max 4) Parallel TEAC 351.
C. Secondary Art (1-4 cr, max 4)
D. Secondary Business Education (1-4 cr, max 4)
E. Secondary Industrial Education (1-4 cr, max 4)
F. Secondary Language Arts (1-4 cr, max 4)
G. Secondary Marketing Education (1-4 cr, max 4)
H. Secondary Mathematics (1-4 cr, max 4)
I. Middle Level (1-4 cr, max 4)
J. Modern Secondary Languages (1-4 cr, max 4)
K. Secondary Science (1-4 cr, max 4)
L. Secondary Social Science (1-4 cr, max 4)

327. Introduction to Human Relations in Education (ALEC 327) (3 cr) Individual personal strengths, characteristics, and leadership potential. Experiential application of leadership theories, philosophies, and skills in building relationships. Empowerment, purposeful and process-oriented relational leadership.


Interpersonal relationships as they affect education. T third hour directed observation and case studies.

363 [362x]. Learning in the Classroom (3 cr) Prereq: EDPS 251 or equivalent. Conditions and factors essential to learning and its facilitation and transfer. M evaluation of learning aptitude, achievement, and other aspects of human development.

397. Professional Practicum Experience III (TEAC, SPED 397) (1-10 cr, max 10) Prereq: Admission to Teacher Education Program. For course description, see TEAC 397.

D. Unified Primary K-3 (1-10 cr)

434. Comparative Education (3 cr)
Comparative study of the foundations, trends, and problems of selected national systems of education as seen in cultural perspective.

450. 850. Child Psychology (3 cr)
Advanced study of the behavior and development of preschool and primary school children.

451. 851. Psychology of Adolescence (3 cr)
Mental, social, and emotional development of boys and girls during the adolescent period.

454. 854. Human Cognition and Instruction (3 cr)
Cognitive psychology and its applications in instruction. Memory problem solving, cognitive process in reading, research approaches, and applications to teaching.

457. Learning and Motivation Principles for Secondary Teaching (3 cr)
Learning and motivational principles for instruction and assessment at the secondary level.

459 [859]. Statistical Methods (3 cr) Computation and interpretation of measures of central position, variability, and correlation; introduction to sampling, probability, and tests of significance.

462. 862. Psychology of Disability (3 cr)
Research and theoretical literature related to the relationship between various disabling conditions and the psychological functioning of the person with disability.

463. 863. Human Behavior Analysis (3 cr)
Research methods and principles of operant conditioning as related to the experimental analysis of human behavioral events and to the development of behavior engineering technologies.

465. 865. Practices in Counseling and Personnel Services (1-6 cr)
Basic practices and related research in counseling and helping practices in educational or other youth-serving agencies. Specialized applications to populations presenting unique problems are offered in sections B through L.

A. Basic Practices in Counseling and Personnel Services (2 cr) Prereq: Permission.
B. Special Practices for Handicapped Children and Youth (1 cr) Prereq or parallel: EDPS 464A/864A.
C. Special Practices in Elementary School (1 cr) Prereq or parallel: EDPS 465A/865A.
D. Special Practices for Exceptionally Talented and Gifted (1 cr) Prereq or parallel: EDPS 466A/866A.
E. Special Practices in the Elementary School (1 cr) Prereq or parallel: EDPS 466A/866A.
J. Special Practices in Junior and Senior High School (1 cr) Prereq or parallel: EDPS 466A/866A.
K. Special Practices for Vocational Education/ Development Programs (1 cr) Prereq or parallel: EDPS 466A/866A.
L. Special Practices for Community Helpers Working With Adults (1 cr) Prereq or parallel: EDPS 466A/866A.

469. 869. Psychopathological Disorders of Childhood and Adolescence (3 cr) Investigation of the genesis, course, classification, and treatment of function and organic pathologies found in children and adolescents.

470. 870. Introduction to Educational and Psychological Measurement (3 cr) Prereq: EDPS 459 859 or equivalent.
Introduction to the construction, evaluation, and ethical use of measurement instruments commonly used in education and psychology. Test construction principles, item analysis, reliability, validity, ethical issues in testing, and evaluation of standardized tests.

471/471. Human Sexuality and Society (CYAF, PSYC 3, SOC 471/471) (3 cr) Prereq: Junior standing and 12 hrs in one of the departments in which the course is listed. 0 pen to advanced students planning areas in the professions in which knowledge of human behavior and society is important (e.g., helping professions, medicine, law, ministry, education, etc.). For course description, see PSY C 471/471.

478/478. Proseminar in Latin American Studies (LANT 478/478, ANTH, GEOG, M1, MOD L, POLS, SOCI 478/478) (3 cr, max 6) Prereq: standing and permission. For course description, see ANTH 478/478.

481/481. Psycho-Pharmacology of Addiction (3 cr) Psychological and pharmacological aspects of drug and alcohol use and abuse. Review of the field emphasizes aspects important for the chemical dependency counselor. Physiology of drug use, major drugs of abuse, and psychoactive medications.

482/482. Treatment Methods and Modalities in Chemical Dependency (3 cr) Common and not so common approaches to treating chemical dependency (e.g., in-patient vs. out-patient treatment, halfway houses, Alcoholics Anonymous). Alcohol and drug abuse sub-populations reviewed, with consideration to their needs in treatment.

490. Workshop Seminar (1-12 cr, max 12)

493. Workshop Seminar (1-12 cr, max 12)

496. 896. Directed Field Experience (1-24 cr) Prereq: Permission.

497. Readings in Educational Psychology and Measurements (1-6 cr) Prereq: Permission.

498/898. Special Topics (1-6 cr, max 6) Prereq: Permission. Seminar on current issues or topics in educational psychology. Topics vary.

499H. Honors Thesis (3 cr) Prereq: Good standing in the University Honors Program or by invitation. Conduct a scholarly research project and write a University Honors Program or undergraduate thesis.

810. Educational Gerontology (GERO 410/810) (3 cr)

825. Coordinator in Occupational Training Programs (TEAC 425/825) (1-2 cr)


860. A Applications of Selected Advanced Statistics (3 cr) Prereq: EDPS 830.

866. Counseling: Comparative Professional Survey (3 cr)

867. Roles and Functions in School Psychological Services (3 cr)

868. Multi-Cultural Counseling (3 cr) Prereq: EDPS 866 or comparable course or permission.

890. Workshop Seminar (1-12 cr, max 12)

893. Workshop Seminar (1-12 cr, max 12)

897. Student Teaching: Gifted and Talented (TEAC, SPED 897) (1-12 cr) Prereq: Application only (Gifted and Talented Program).

899. Masters Thesis (6-10 cr)
Refer to the Graduate Bulletin for 900-level courses.

Special Education and Communication Disorders

Chair: Professor J. E. Berenthal
Professors: Beukelman, Decker, Epstein, Eley, H. M. G., Mears, Peterson, Reid, Sanger, Shepard, Vasa
Associate Professors: Carell, Erickson, M. Arvin, Elson, Siegel
Special Education (SPED)

201. Introduction to Special Education (3 cr)
Introduction to basic concepts related to the education of exceptional learners. Historical factors, legislative statutes, and instructional models.

207. Professional Practicum Experiences II (TEAC, EDPS, N U T R 297) (1-4 cr, max 12) A laboratory seminar is included where the professional role of the teacher is discussed. For course description, see TEAC 297.
A. Elementary (1-4 cr, max 4) Parallel EDPS 250.
B. Elementary (1-4 cr, max 4) Parallel TEAC 351.
C. Secondary Art (1-4 cr, max 4)
D. Secondary Business Education (1-4 cr, max 4)
E. Secondary Educational Technology (1-4 cr, max 4)
F. Secondary Language Arts (1-4 cr, max 4)
G. Secondary Marketing Education (1-4 cr, max 4)
H. Secondary Mathematics (1-4 cr, max 4)
I. Middle Level (1-4 cr, max 4)
J. Secondary Modern Languages (1-4 cr, max 4)
K. Second Year Science (1-4 cr, max 4)
L. Second Year Social Science (1-4 cr, max 4)

The role of general education teachers in the primary purpose of assessment of learners with diverse needs. Knowledge and experience with interpreting norm-referenced test information as related to planning educational programs. Use of assessment information for instructional planning and evaluation. Testing accommodations and classroom grading.


Instructional methods and accommodations for special education general education teachers necessary to work successfully with students with disabilities who are at-risk for academic failure in the classroom. Curriculum modification, classroom management, strategy instruction, and instructional modifications for content area.

Students learn to work in groups, with varied age levels, and with members representing different disciplines. Students also provide support for one another as they work on common projects.

362. Early Childhood Special Education (3 cr) Lec. quiz;
Prereq: SPED 201 and 202. Parallel SPED 408/474 or 474/477 or parallel. A laboratory to the inclusive Early Childhood Education Program (IECE) or permission of instructor and/or advisor.
Teaching and caring for children under age five with specific disabilities. Design of Individualized Education Plans (IEP's) or Family Service Plans (FSP's) and strategies for teaching and learning in natural, child-interested areas.

397. Professional Practicum Experience III (TEAC, EDPS 397) (1-10 cr, max 10) Prereq: Admission to the Teacher Education Program; EDPS 362, TEAC 195; one methods course; or permission. Legal and ethical requirements for teaching exceptional learners; identification, referral, and placement procedures; development and use of the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the elementary school.

401B/801B. Accommodating Exceptional Learners in the Secondary School Classroom (3 cr) Prereq: Admission to the Teacher Education Program; EDPS 362, TEAC 195; one methods course; or permission. Legal and ethical requirements for teaching exceptional learners; identification, referral, and placement procedures; development and use of the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the secondary school.

405/805. Code-based Reading Instruction (1-3 cr, max 6) Lec. Prereq: Parallel SPED 405A/805A. Direct, systematic, and explicit teaching of basic reading skills for teaching reading, writing and spelling to students who have severe reading problems.

405A/805A. Reading Center Practicum I (1-3 cr, max 3) Field. Prereq: Permission. SPED 405A/805A requires two hours per week in a Reading Center.
Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, lesson planning, and use of direct instruction, code-based instructional strategies.

406/806. Reading and Writing Disabilities Adolescents (1-3 cr, max 3) Field. Prereq: Parallel SPED 406A/806A. Theory and techniques for assessing and teaching writing identification, vocabulary, comprehension and writing skills in grades 7 to 12.

406A/806A. Reading Center Practicum II (TEAC *806) (1-3 cr, max 3) Field. Prereq: Permission. SPED 406A/806A requires two hours per week in a Reading Center.
Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, lesson planning, delivery of instruction, writing diagnostic reports and parent communication.

407/807. Teaching Students with Disabilities in the Secondary School (3 cr) Prereq: SPED 201 or 400/800.
Teaching and assessing students with disabilities. They will provide instruction to their students and will be responsible for the administration of a class. They will also be responsible for the assessment of their students and will be responsible for the development of an Individualized Education Plan (IEP) for each student.

408/808. Issues in Secondary Programs for Students with Mild Disabilities (3 cr) Prereq: SPED 406A/806A. Field. Teaching with mild/moderate disabilities; special methods for teaching reading, writing and spelling to students who have severe reading problems.

415/815. Reading and Writing Disabilities Elementary Students (1-3 cr, max 6) Prereq: SPED 201. TEAC *311, 313 for elementary education majors; SPED 201, 302, 303, 304, 305 for special education majors. Parallel SPED 435A/B, 835A/B.
Theory and techniques for assessing and teaching early literacy skills in small groups and one-on-one for children who struggle with literacy.

A. Reading Center Practicum: Elementary Students (1-3 cr, max 3) Field. TEAC 426.

416/836. Career Education for the Special Needs Children (3 cr) Prereq: SPED 434/834 or permission. Philosophical and practical bases of career education as it relates to special needs children. Career education units developed for infusion into subject areas.

437/837. Directed Field Experience in Special Vocational Needs (3 cr) Prereq: 17 weeks of observation and working in the field. Field sites selected on class participant preference.

472/872. Psychology and Sociology of Deafness (3 cr) Prereq: Permission. Theories of Deafness and education of the hearing impaired including history of professional roles in, and educational programming within this field. Social/psychological theories related to the hearing impaired. Patterns of social and emotional development; psychological characteristics, issues of family stress and social adaptation and discussion of counseling techniques.

480/880. Lifespan Approach to Mental Retardation (3 cr) Prereq: Permission. An overview of the development of educational personnel to undertake individuals with mental retardation definitions, identification, best practice standards and research in educational, residential, and vocational programming. Current legal and ethical issues in development disabilities.

490. Workshop Seminar (1-12 cr, max 12)

493. Workshop Seminar (1-12 cr, max 12)

495. Independent Study in Special Education (1-3 cr) Prereq: Prior arrangements with faculty member and permission. Open to research or project under direction of a staff member in the department.

496/896. Directed Field Experience (1-6 cr, max 12) Field. Prereq: Permission. Field experience must be approved by the professor. Field experience with specific students.

497. Student Teaching: Exceptional Learner (1-12 cr, max 12) Prereq: Admission by application only. Field experience required. Course description, see TEAC 497.

499. Honors Thesis (3 cr) Prereq: Good standing in the University Honors Program or by invitation. Undergraduate honors thesis or undergraduate research.

*802. Advanced Assessment Techniques (3 cr) Prereq: SPED 800 or equivalent; or permission.

*803. Designing Programs for Exceptional Learners (3 cr) Prereq: SPED 800 and 802; or permission.

*804. Advanced Methods for Management of Exceptional Learners (3 cr) Prereq: SPED 800, 802; or permission.

813. Characteristics of Specific Learning Disabilities (3 cr) Prereq: SPED 800 or permission.

814. Characteristics of Behavioral Disorders (3 cr) Prereq: SPED 800 or permission.

*851. Education of the Visually Impaired I (1-6 cr, max 6)

*852. Education of the Visually Impaired II (1-6 cr, max 6)

A. Braille Codes and Formats (2-week course)
B. Nemeth Code

853. Visually Impaired/Multihandicapped (1-6 cr, max 6)

854. Special Education Administration (3 cr) Prereq: SPED 800 and 802; or permission.

857. Special Education Administration (3 cr) Prereq: SPED 800 and 802; or permission.

858. Special Education Law (EDAD 858) (3 cr)

860. Issues in Early Childhood Special Education (3 cr)

861. Programs for Handicapped Infants and Toddlers (3 cr)

*862. Teaching Preschool Handicapped Children (3 cr)

863. Medically Fragile Infants (3 cr)

873. Teaching the Content Areas to the Hearing Impaired (3 cr)
874. Language Arts for the Hearing Impaired (3 cr)
875. Reading for the Hearing Impaired (3 cr) Prereq: Permission.

881. Educational Programming for Students with Severe Disabilities (3 cr) Prereq: SPED 880 or permission.

882. Instructional Strategies for Students with Severe Disabilities (3 cr) Prereq: SPED 881 (for SH endorsement students) or SPED 882 (for EC endorsement students) or permission.

885. Education of Gifted Children (TEAC 885) (3 cr) Prereq: Permission.

893. Workshop Seminar (1-12 cr) Prereq: By application only. (See Admission to Student Teaching on page 251.)

897. Student Teaching: Exceptional Learners (1-12 cr) Prereq: By application only. (See Admission to Student Teaching on page 251.)


Speech-Language Pathology and Audiology (SLPA)

Application is necessary for entrance to the preprofessional program in speech-language pathology and audiology and is normally made by September 15 or February 1 of the semester in which the student will have completed SLPA 150, 250, 271, and anatomy or physiology. Acceptance is based on academic performance in these four courses and an overall 3.0 grade point average. Admission to the Graduate College and subsequent completion of the requirements for a masters degree will entitle the student to receive a teaching certificate in speech-language pathology and meet academic and practical requirements for state licensure in speech-language pathology or audiology and the Certificate of Clinical Competence in speech-language pathology (CCC-C) or audiology (CCC-A). Contact the departmental chief undergraduate advisor, 3188 Barkley Center, for further information.

101. Beginning American Sign Language I (4 cr)

102. Beginning American Sign Language II (4 cr)

Voice and Diction (3 cr) Prereq: Open to broadcasting majors only.
Systematic training in voice and diction for radio broadcasting. Attention to individual needs. Complete voice and diction evaluation by the Voice and Diction Clinic. Individual therapy for those with voice or articulation difficulty.

Communication Processes and Disorders (3 cr)
Introduction to the speech, language, and hearing problems of children and adults. Identification and understanding of different types of human communication disorders. General orientation to the field of speech-language pathology and audiology. Normal speech and language development. Clinical observations may be required.

Independent Study (1-3 cr) Prereq: Permission.

201. Second Year American Sign Language I (4 cr)
Prereq: SLPA 103 and an overall 3.0 grade point average. Introduction to American Sign Language (ASL). Idiomatic uses of ASL. Use of ASL for creative expression. Extensive viewing, translation and discussion of videotaped ASL conversations and literature.

202. Second Year American Sign Language II (4 cr)

250. Descriptive Phonetics and Normal Speech Development (3 cr)
T heories of acquisition and development, phoneme classification and factors affecting phonological systems. Development of proficiency in phonetic transcription.


271. Introduction to Audiology (3 cr)
Identification of the deaf or hard of hearing. Etiologies and pathologies of hearing impairment. Basic testing techniques of pure tone and speech audiometry.

302. Manually Coded English Sign System (2 cr)
Prereq: SLPA 101, 102, and 201. Theory and principles of manually coded English (MCE) sign systems. Extensive work on rules and practice. Practice in expressive and receptive use of MCE.

397A. Introduction and Observation (1 cr) Prereq: Admission to the Pre-Professional Program in speech-language pathology and audiology.

398. Special Topics in Speech-Language Pathology and Audiology (3 cr) Prereq: Permission.

399. Independent Study (1-3 cr) Prereq: Permission.

421. Professional Issues for the Communication Disorders Specialist (3 cr) Prereq: Senior standing. Professional issues as they relate to the speech-language professional. Legal aspects, program issues, and administrative responsibilities.

441. Methods for the Communication Disorders Specialist (3 cr) Prereq: Senior standing. Specific methods for planning, organizing, and delivering clinical services in speech-language pathology.

450/850. Audiology for Educators of the Deaf or Hard of Hearing (3 cr) (UNL, UNO) Lec 3. Lab 3. An anatomy and physiology of hearing, components of adequate evaluation for placement and educational planning; diagnosis using audiogram, functional and communication assessment; stimulation and utilization of residual hearing; and management of assistive and/or augmentative devices.

452/852. Normal Language Development During School Years (3 cr)
Normal syntactic, semantic, and pragmatic language development in school-age children and youth. Complex syntax, semantic development, pragmatic development, using language to learn, language-literacy relations, and abstract language development.

454/854. Research Methodology in Speech-Language Pathology and Audiology (3 cr) Prereq: Speech-language pathology and audiology major. Introduction to research principles, methods, and design. Survey and critique of research in special education and communication disorders.


456. Speech and Hearing Science (4 cr) Prereq: SLPA 250 and 453 or permission. A survey of properties and analysis of sound; the sensation and perception of sound.

461/861. Language Disorders: Preschool Level (3 cr)
Characteristics of language impaired preschool children and the nature of their disorders. Introduction to principles of assessment and treatment.


472. Introduction to Aural Rehabilitation (3 cr) Prereq: SLPA 271 or equivalent. Introduction to materials and educational methodologies and models for rehabilitation of the deaf or hard of hearing. Review of levels of communication, information processing, auditory training, and speech reading.

473. Advanced Audiology (3 cr) Prereq: SLPA 271. Fundamental clinical audiology techniques beyond basic pure tone testing, including advanced pure tone testing techniques; bone conduction measurement and procedures; masking theory and techniques; speech audiometry; and impediment audiometry.

486/886. Augmentative Communication (2-3 cr) Prereq: Permission.

487/887. Linguistic Needs of Bilingual and Culturally Different Students (3 cr) Prereq: SLPA 250 and 251 or permission. Theoretical and applied information about situational factors which have an impact on spoken and written language. Addresses how individual differences due to gender, handicapping conditions, socio-economic status, and cultural-ethnic background contribute to diversity in communication patterns and often act as a barrier to successful interactions in learning and social settings.

490. Workshop Seminar (1-12 cr, max 12)

496/896. Readings and Research in Speech-Language Pathology and Audiology (1-3 cr) Prereq: Permission.

497. Practicum in Speech, Language, and Hearing Disorders (1 cr) Prereq: SLPA 397A.

499H. Honors Thesis (3 cr) Prereq: Good standing in the University Honors Program or by invitation. Conduct a scholarly research project and write a University Honors Program or undergraduate thesis.

*851. Clinical Phonology: Assessment and Management (3 cr) Prereq: SLPA 250 and 464 or permission.

*853. Neurological Foundations of Speech and Language (3 cr)

854. Research Methodology in Speech-Language Pathology and Audiology (3 cr) Prereq: Graduate Standing.

*862. Language Disorders in School-Age Populations (5 cr)

*865. Voice Disorders (3 cr) Prereq: SLPA 455.

*870. Clinical Processes (2 cr) Prereq: SLPA 469 and/or clinical practicum.

880. Medical Aspects of Audiology: Conductive (3 cr)


883. Language Pathology (3 cr)

*884. Speech and Language Development of the Hearing Impaired (3 cr)

*885. Fluency Disorders (3 cr)

886. Augmentative Communication (2-3 cr)

*887. Language and Learning Disorders (3 cr) Prereq: For non-SLPA majors only.

888. Linguistic Needs of Bilingual and Culturally Different Students (3 cr) Prereq: SLPA 250 and 251 or permission.

890. Workshop Seminar (1-12 cr, max 12)

893. Workshop Seminar (1-12 cr, max 12)

906. Readings and Research in Speech Pathology and Audiology (1-3 cr) Prereq: Permission.
405. Methods of Instruction Laboratory Education (1-3 cr) Lec. Prereq: Completion of the undergraduate preprofessional program.

A. Audiology
B. Speech Language Pathology
D. Differential Diagnosis
E. Externship
G. General Psychology
L. Language-Learning
M. Medical Aspects
R. Aural Rehabilitation

896. Special Topics in Speech Pathology and Audiology (1-24 cr) Prereq: Permission.

899. Masters’ Thesis (6-10 cr)

Refer to the Graduate Bulletin for 900-level courses.

Agricultural Education (ALEC)

Interim Head: Professor Dan Wheeler

For complete course descriptions, see “Agricultural Education” on page 53 in the College of Agricultural Sciences and Natural Resources Bulletin.

ESII 102. Interpersonal Skills for Leadership (3 cr I, II) Lec. Open to freshmen and sophomores only.

134. Agricultural Education, Journalism, and Leadership Careers (2 cr I) Course has guest speakers and field trips.

135. Early Field Experience in Agricultural Leadership, Education and Communication (1-3 cr) Prereq: Agricultural leadership, education and communication major or permission. Required of all agricultural leadership, education and communication majors.

ESII 189H. University Honors Seminar (3 cr) Prereq: Good standing in the University Honors Program or by invitation. Open to all students in the University Honors Program.


234. Planning Leadership and Experience Programs (3 cr I, II) Lec. Prereq: Sophomore standing and ALEC 134 and/or 135.


305. Presentation Strategies for Agricultural Audiences (3 cr I, II) Lec. Prereq: Senior standing. Student presentations integral to the course.

306. Laboratory Instruction and Management (3 cr I, II) Lec. Prereq: 6 hrs. mechatronics systems management; advanced standing. Student demonstrations and presentations required.

327. Introduction to Human Relations in Education (EDPS 327) (3 cr) Lec.

330. Foundations of Cooperative Extension (3 cr I) Lec. Prereq: Junior standing. Credit toward the degree may be earned in only one of ALEC 233 or ALEC 330.

331. Supervised Field Experiences (2-5 cr I, II, III) Lab. Prereq: Junior or senior by application.

337. Instructional Internship in Leadership Development (1-3 cr I, II, III) Act. 3 cr. Prereq: Permission.

ESII 389. Ethics in Agriculture and Natural Resources (AECN 388) (3 cr I)

387. Special Topics (1-3 cr max 3 cr I, II) Lec. Prereq: Permission.

399. Independent Study in Communications (1-3 cr) Prereq: Permission and advance approval of plan of work.

IS 405. Methods of Instruction for Secondary Agriculture Education (3 cr I) Prereq: Senior standing and 3 hrs. educational psychology, or permission.

408L. Methods of Instruction Laboratory Education (1 cr) Prereq: Admission to the teaching program in agricultural education and parallel registration in ALEC 405.


ESII/IS 410/810. Environmental Leadership (NR ES 413, 813) (3 cr) Lec.


413. Program Development (3 cr) Lec, rct. Prereq: Junior standing and acceptance into the student teaching program in agricultural education.

ESII/IS 414/814. Classic Figures in Leadership (3 cr I) Lec, rct. Prereq: Junior standing. Requires extensive writing and oral presentations.

420/820. Improvement of Instructional Programs for Post-High-School Occupational Education (1-3 cr)

*431. Student Teaching (3-12 cr) Prereq: 3 hrs. educational psychology, passing score on the Preprofessional Skills Tests (PPST) and permission. Placement arranged by the department.

433/833. Planning and Implementation of Cooperative Extension Programs for Domestic and Foreign Audiences (3 cr I, II) Lec. Prereq: Senior or graduate standing and consent of instructor.

(IS) 466. Leadership and Diversity in Organizations and Communities (3 cr I) Lec. 3 cr.

(IS) 477. Leadership and Motivation (3 cr) Lec. 3 cr.

480. Dynamics of Agricultural Environmental Journalism (3 cr I, II) Prereq: junior standing.

(IS) 489/889. Leadership, Power and Influence (3 cr I, II) Lec. 3 cr.

494. Undergraduate Seminar in Agricultural Education (1-3 cr)

495. Internship in Leadership Development (2-5 cr, max 5 I, II, III) Fld. Prereq: Junior standing, ALEC 302, agricultural education major; and permission. A graduate education major must take ALEC 495A for Pass/No Pass.

495B. Internship in Agricultural Journalism (3 cr I, II) Fld. Prereq: Junior standing, ALEC 302, agricultural journalism major; and permission. ALEC 495B is taken the second semester of the junior year or in the summer following the junior year. Department approval is required, however. ALEC 495B cannot be taken Pass/No Pass.

496/896. Independent Study in Leadership Education (1-9 cr, max 9) Prereq: Permission.

499H. Honors Thesis (3-6 cr, I, II, III) Prereq: Admission to the University Honors Program and permission. AGRI 1299H recommended.

803. Theoretical Foundations of Leadership (3 cr) Lec.

805. Developing Leadership Capacity in Organizations and Communities (3 cr) Prereq: ALEC 800 or equivalent.

806. Problems of Beginning Agriscience Teachers (2-5 cr I, II) Lec.

809. Advanced Teaching Strategies (TEAC 805) (1-3 cr) Lec. act.

860. Introduction to Distance Education (3 cr I) Lec.

870. Supervisory Leadership (CYAF 870) (3 cr) Lec/lab. Prereq: ALEC 801 or permission.

875. Developing and Organization of Vocational Education (1-3 cr) Lec.

816. Management Strategies in Distance Education Environments (3 cr I, II, III) Lec.

815. Development and Organization of Vocational Education (1-3 cr) Lec.

846. Program Evaluation in Vocational and Adult Education and Training (3 cr)


890. Workshop Seminars (1-12 cr I, II, III)

893. Technical Agricultural Workshops (1-12 cr I, II, III) Prereq: Permission.

897. Special Topics (1-3 cr I, II) Lec. Fld.

899. Masters’ Thesis (6-10 cr)

Refer to the Graduate Bulletin for 900-level courses.

Areas of Study in Human Sciences

Areas of Study

The College offers programs leading to a bachelor of science in education and human sciences in the following areas:

Child, Youth, and Family Studies

Inclusive Early Childhood Education:
Birth to Grade 3
Child Development/Early Childhood Education

Family and Consumer Sciences Education

Nutritional Science

Dietetics

Culinary Science (Culinology®)

Dietetics/Journalism and Mass Communications

Nutrition Science

Hospitality, Restaurant and Tourism Management

Textiles, Clothing and Design

Nursing

Psychology

Psychology/Applied Psychology

Sociology

Sociology/Anthropology

Sociology/Anthropology/Religious Studies

Sociology/Anthropology/Religious Studies/Intercultural Studies

Minor in Marketing

Minors

International Studies Minor

The College of Education and Human Sciences offers a minor in international studies to students in the human sciences.

Human Sciences International Minor

• 18 Hour International Studies Minor

18 Hour International Studies Minor

Human Resources and Family Sciences, 3 cr

Social Work, 3 cr

Dietetics, 3 cr

Family Science, 3 cr

International Area of Study, 3 cr

International Studies Minor

Available at UNO.

Human Sciences International Minor

• M emphasis in Health and Human Performance

M emphasis in Social Work

M emphasis in International Studies

M emphasis in Family Science

Areas of Study in Human Sciences
The University comprehensive education programs consist of a minimum of 30 credit hours of courses that will help students develop a breadth of knowledge and critical intellectual abilities. The program is comprised of Essential Studies (ES) and Integrative Studies (IS) courses. Requirements are:

**Essential Studies**: One ES course in each of the following: communications, mathematics, science, the humanities, the arts, and human behavior and organization (three courses are required in this area).

**Integrative Studies**: Students choose at least 10 IS courses during their studies at UNL that stress, in addition to course content, critical thinking and problem solving, writing and speaking, and considerations of human diversity.

Out of the ten IS courses, at least one must be a 200-level course, one a 300-level course, and one a 400-level course. Integrative Studies courses may be taken from any University department with a limit of three from one department. A well-planned program of study will generally allow students to fulfill both IS and ES requirements with the same set of courses. The human resource and family sciences programs are constructed to help assure that these requirements are met. In addition, students take Introduction to Library Research (LIBR 110).

### Comprehensive Education and Core Requirements for Human Sciences

The following minimum requirements apply to all programs in human sciences. Students in General Studies should refer to individual majors under “Programs and Departments in Human Sciences” on page 269 when selecting courses.

<table>
<thead>
<tr>
<th>Hours</th>
<th>I. Essential Studies</th>
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<tr>
<td></td>
<td>A. Communications</td>
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<td>B. M. Mathematics and Statistics</td>
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<td>C. Human Behavior, Culture &amp; Social Organization</td>
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<td>D. Science and Technology</td>
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<td>E. Historical Studies</td>
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<td>F. Humanities</td>
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<td>G. Arts</td>
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<td>H. Race, Ethnicity &amp; Gender</td>
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<th>Hours</th>
<th>II. Human Sciences Core</th>
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<td>See requirements in each option.</td>
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Programs and Departments in Human Sciences

All course and programs of study are offered through one of the three departments with a few exceptions. The honors program is coordinated through the Office of the Dean. The following courses are offered by the College and are listed in the Schedule of Classes under human sciences or online at www.unl.edu.

Courses of Instruction (HUMS)


490. International Study in Human Resources and Family Sciences (1-15 cr, max. 15) Prereq. Permission. Individualized or group international study to broaden perspectives and increase knowledge about other cultures.

Department of Child, Youth, and Family Studies

Chair: Professor Julie M. Johnson
Professors: Abbott, DeFraw, Edwards, Johnson, Kotenik, Raikes, Zece
Associate Professors: Bischoff, Churchill, Cramer, Dalla, Prochaska-Cue, Torquati
Assistant Professors: Bosch, deGuzman, Hollist, Hudson, Casas, Xia
Senior Lecturers: Rupiper
Lecturers: Gabriel, Jones-Branch, Leeper

Child, Youth, and Family Studies offers undergraduate options that prepare students to work with individuals and families in formal and informal settings in government, business, education, and social service agencies. Students may apply to become a certified Family Life Educator through the National Council on Family Relations after graduation. Obtaining certification will: 1) recognize their expertise in family issues, 2) acknowledge the preventative focus of Family Life education, 3) increase their credibility by validating their expertise and education, 4) provide employers with assurance that one's knowledge and skills are current, 5) allow for networking with other Family Life Educators. Students can select among several options: Child Development, Early Childhood Education, Work with young children; Family Science (working with children and families); Child, Youth, and Family Studies Education (working with adolescents in formal educational settings); Inclusive Early Childhood; Birth to Grade 3 (working with young children in an educational setting); and Child, Youth, and Family Studies Journalism and Mass Communications (working in advertising, news, editorial, or broadcasting). The department is home to three teaching/research laboratories: the Ruth Staples Child Development Laboratory, Child Development Research Laboratory, and the Family Resource Center.

Graduate Study. Advanced degrees of master of science in child, youth, and family studies. In child, youth, and family studies, four specializations are available: marriage and family therapy, family financial planning, youth development, and family and consumer science education. Family financial planning, youth development, and family and consumer science education are inter-institutional distance education degrees. Certificates in family financial planning, youth development, and medical family therapy are also available. Students can also emphasize in child development/early childhood education, family and consumer science education, and family science in the child, youth, and family studies masters degree. For details, see the Graduate Studies Bulletin.

Students who enroll for graduate credit in courses cross-listed with undergraduate courses must complete course requirements beyond those expected of students enrolling for undergraduate credit. These requirements will be established by the instructor and will include, but will not be limited to, more demanding criteria for evaluation, additional research projects, readings, and papers. Other requirements may be enumerated.

Minors

Child, Youth, and Family Studies (18 hrs)

CYAF 160, 280, and four courses in the Department, two of which must be at the 300 level or above.

Procedures On Dropout and Transfer-Into Options

Dropout-From Option. Department majors who drop out for five successive academic years or more, and later choose to reenter in their respective option or into another option in the department will be expected to meet the graduation requirements in effect at the time of reenrollment.

Transfer-Into Option. Students transferring into Child, Youth, and Family Studies from another institution, or from another department within the University or College will complete the graduation and/or certification requirements in effect at the time of transfer into the option.

Child, Youth, and Family Studies

Students should select an option:

a. Child Development/Early Childhood Education
b. Family Science
c. Family and Consumer Sciences Education
d. Child, Youth, and Family Studies Journalism and Mass Communications
e. Inclusive Early Childhood Education: Birth to Grade 3

Child Development/Early Childhood Option

The Child Development/Early Childhood Education option provides comprehensive programs in child development theory, research, professional practice and application. Study leads to qualifications for management of child-oriented professions including teaching in early childhood settings, child development program management, other child service professions or preparation for graduate school in a related area. These programs offer a strong foundation for varied graduate studies.

Comprehensive Education

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Communication

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Oral Communication

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Select from: COMM 109, 209, 210, 311

Composition and Writing

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Select from: ENGL 101, 150, 150H, 151, 254; GEN 120, 200, 300

Mathematics and Statistics

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Select from: STAT 218, EDP 459, ECON 215, MATH 203

Human Development, Culture, and Social Organization

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Select one course from:

Area C

Area D

Science and Technology

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Select one course from:

Biological or physical science with lab from Area D

Interdisciplinary Studies

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Select one course from:

Area E

Area F

Area G

Race, Ethnicity and Gender

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Select one course from:

Area H

Information Retrieval

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Libr 110 Intro to Library Research

Human Sciences Core

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CYAF 290 Family Science

CYAF 497A Practicum in Early Childhood

Child, Youth, and Family Studies Professional Core

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CYAF 160 Human Development & the Family

CYAF 222 Family Financial Management

CYAF 281 Communication & Interviewing Skills for Helping Professionals (1 cr) or 381 Family Intervention & Field Work (3 cr)

CYAF 333 Families in the Economy

CYAF 382 Parenting

CYAF 488 Child & Family Policy

CYAF 495 Special Topics in Family & Cultural Diversity or any other courses in Area D

Human Development: CYAF 271 & 271L

Signature course

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CEHS 200 Families, Schools & Communities

Child Development/Early Childhood Education Career Paths

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Select either A or B:

A. Child Development Program Management

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CYAF 170 Intro to Early Care & Education

CYAF 270 & 270L Development of the Preschool Child and Lab

CYAF 374 & 374L Curriculum Planning in ECE and Lab

CYAF 474A Management in Early Childhood

CYAF 474 Administration of ECE Programs

CYAF 497D Community Internship in Family & Consumer Sciences

B. Atypical Development

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<td>20, 303, 400, 480; EDP 469; SLPA 150</td>
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Select one course from:

ALEC 202 Leadership in Small Groups

ALEC 302 Dynamics of Effective Leadership in Organizations
Family Science Option

The career path for Family Science (working with children and families) provides a comprehensive program grounded in family science theory, research, and professional practice and application. The distinct feature of this career path is that it provides students with knowledge and intervention skills that will assist them in helping to prevent and remedy interpersonal problems experienced by individuals in their family relationships, building on the family's strengths. In addition, this career path will prepare students for graduate school (e.g., family science, family therapy, social work, counseling psychology, law), or for employment in human services agencies or programs. Students are prepared to work in service agencies or nonprofit agencies serving individuals and families. Students select several courses in the economic and family finance content area are prepared to advise in the areas of consumer credit, etc. These courses may make them eligible to take the Accredited Financial Counselors examinations.

Information Retrieval ...

Library 110 Intro to Library Research ...

Comprehensive Education ...

Communication ...

O Oral Communication ...

Select from: COMM 109, 209, 210, 311 ...

Composition and Writing ...

Select from: ENGL 200, 201, 210, 301, 315, 324, 325, 326 ...

JGEN 120, 120 ...

Mathematics and Statistics ...

Select from: STAT 118, EDPS 459, ECON 215, MATH 203 ...

Human Behavior, Culture, and Social Organization ...

Select two courses from: Area C ...

Science and Technology ...

Select two courses from: Area C ...

Humanities ...

Select one course from: Area E ...

Arts ...

Select one course from: Area G ...

Race, Ethnicity and Gender ...

Select one course from: Area H ...

Select one course from: Area E ...

Family and Consumer Sciences Education Option

The students enrolled in this option will meet the requirements for the Nebraska Secondary Teaching Certificate and endorsement in Family and Consumer Sciences. Students may also combine the area with other subject matter areas that will lead to teaching endorsements in other fields. Students wanting to be endorsed for Family and Consumer Sciences related occupations must complete additional coursework and work experience requirements. The student's advisor will assist the student in planning to meet these requirements. Students interested in preparing for extension positions are encouraged to include 497D in their programs.
Admission Requirements to Family and Consumer Sciences Education

Minimum Grade Point Averages
Cumulative: 2.5 GPA
No grade lower than a C and cum 2.5 GPA in T EAc 331 and EDPS 251, 297.
No grade lower than a C in T EAc 259, 330, 424, EDPS 457 and SPED 401B.
No grade lower than C+ in CYAF 401, 401A, 402, 402A.

Admission Requirements
Prior to entering the program and taking CYAF 401 and 401A, students are required to receive passing scores in the Preprofessional Skills Test (PPST), Computer Based Academic Skills Assessment (CBT), or Content Mastery Examination for Educators (CMEE). In addition, students must be admitted into the FCS Education program. (See application for admission to Secondary Education programs in the Student Advising Center.)

Student Teaching
All students who are candidates for an appropriately endorsed Nebraska Teacher's certificate are required to student teach, CYAF 413.

Student Teaching is only offered in the fall semester and is a full year experience on a semester basis. Students must apply for student teaching by the preceding March to the Director of Field Experiences in 116 Hanzlik Hall or to the CYAF Department Chair in 135 Mabel Lee Hall. Admission to student teaching requires the following:

- Admission to CYAF Education program
- A minimum cumulative GPA of 2.5
- No grade lower than a C+ in any professional education course (T EAc 259, 331; EDPS 251, 297; CYAF 401 and/or 401A, 402 and/or 402A)
- CYAF Education faculty recommendations

Felony or Misdemeanor Convictions
The Nebraska Department of Education policy requires that a person with a felony or misdemeanor conviction involving abuse, neglect, or sexual misconduct shall not be allowed to participate in pre student teaching laboratory or classroom experiences or student teach without approval by the Board of Education.

Review by Faculty
Every student will be reviewed by the faculty at the end of each semester. Basic skills test scores, GPA, communication skills and personal-social adjustment will be considered in this review. Students will need faculty recommendations in order to enter the student teaching semester.

Communications
Students with disabilities will be helped to develop professional practices in order to ensure effectiveness in their classrooms.

Personal-Social Adjustment
Where the faculty in Family and Consumer Sciences Education has reason to feel there is instability in the student's personal-social behavior, the student may be asked to conference with a counselor to determine the degree to which the student can be expected to adjust to the school and classroom environment.

Moral Character and Safety
Teaching requires candidates to be individuals of integrity. Prospective teachers must be able to demonstrate they have strong moral character and can make mature decisions. Individuals must show a high degree of moral character and must act responsibly, representing our College and the University. Should the College discover behavior, which in its reasonable judgement, establishes on the part of the candidate a lack of integrity, questionable moral/ethical character, or otherwise indicates a potential of risk to young persons and others in the educational community, the CYAF Department reserves the right to deny entry to or dismiss anyone from the program leading to certification. These kinds of behaviors shall be adequate foundation to deny any candidate or potential candidate from participation in any practicum, student teaching or other field experience.

Other Considerations
Other consideration might be given to skill building courses such as clothing construction, catering, culinary arts, budgeting and others to enhance technical skills. These courses are not required for a degree or teacher certification. Credit in these courses may not fulfill university requirements. See Program Director for award of credit; if such award is possible.

CYAF Related Occupations
Students wishing to be endorsed for Child, Youth, and Family Studies related occupations must complete additional course work and work experience requirements. The student's advisor will assist the student in planning to meet these additional requirements:

- Coordination Techniques (T EAc 425) (3 cr) and either of the following:
  - 1000 verified hours of paid work or combination of paid and volunteer work related to CYAF (not more than half can be volunteer)
  - 300 hours of supervised work experience in CYAF Related Occupations under the direction of a CYAF teacher educator at UNL

Extension
Students interested in Extension are encouraged to add CYAF 497D Practicum in CYAF and complete an internship experience in Extension.

Course Requirements
Courses identified by number cannot be taken Pass/No Pass (P/N) with the exception of CYAF 413. Should a student have earned a P in one of the courses (except those listed above) prior to starting the option, the P will be reviewed.

Child, Youth, and Family Studies/ Journalism and Mass Communications Option
This option is a joint program between the department of Child, Youth, and Family Studies and the College of Journalism and Mass Communications. The student combines a broad background in child, youth, and family studies with one area of journalism of the student's choice. Career opportunities may include production, editing, reporting, photography, advertising, and sales.

Procedures for Determining Admission to the Child, Youth, and Family Studies Journalism and Mass Communications Option
GPA
A 2.75 GPA is required for those enrolling in the journalism/advertising specialization in journalism/broadcasting and journalism/newspaper specialization courses.

Grades Earned
Grades of D or less in journalism courses and in 300/400-level professional requirement courses in child, youth, and family studies will not be accepted. Course will need to be repeated before enrolling in another course in journalism.

The minimum credit hours required for graduation is to be met as follows:

Comprehensive Education........................................35
Communication..................................................5
Speech..................................................................5
Composition and Writing........................................6
Select from: ENGL 101, 150, 150H, 151, 254;
JGEN 120, 200, 300,
Mathematics and Statistics.....................................3
Select from: ECON 215, EDPS 459, MATH 203, STAT 210
Human Behavior, Culture and Social Organization........6
Select two courses from JDUR 101, 486, 487
Science and Technology..........................................4
Select one course from: Biological or physical sciences with lab. Select from BIO S 101 and 101L, 114, 203; CHEM 105
Hisstorical Studies................................................3
Select one course from: Area E
Humanities............................................................3
Select one course from: Area F
Arts.......................................................................3
Select one course from: Area G
Race, Ethnicity and Gender......................................3
Select one course from: Area H
Information Retrieval..............................................1
LIBR 110 Intro to Library Research
Human Sciences Core.............................................6
CYAF 290..............................................................3
CYAF 497D..........................................................3
Child, Youth, and Family Studies Professional Core...22-24
CEHS 200 Families, Schools & Communities..............3
CYAF 160 Human Development & The Family............3
CYAF 222 Family Financial Management.....................3
CYAF 281 Communication & Interviewing Skills for Helping Professionals (1 cr) or 381 Family Intervention & Field Work (3 cr) .........................1-3
CYAF 382 Parenting...............................................3
CYAF 488 Child & Family Policy................................3
CYAF 495 Special Topics in Family & Cultural Diversity or any ethnic studies course..................3
Human Development..............................................3
Select one of the following: CYAF 270 & 270L, 271 & 271L, 372, 462; GERO 200, 307, 447, 448; EDPS 250, 251, 450, 451; PSY C 446, 449
Child, Youth, and Family Studies Supporting Courses.................................................................21
CYAF 333 Families in the Economy..........................3
CYAF 446 Addiction & Violence in Families..............3
CYAF 471 Human Sexuality....................................3
Atypical Development............................................3
Select one course from: PSY C 380-SPED 201, 303, 400, 480; EDPS 469; SLPA 150
CYAF 322 Advanced Family Finance......................3
CYAF 493 Special Topics........................................3
AFCS 322 Strategic Consumer Research & Strategy or PSY C 350 Research Methods & Data Analysis or SOC 205 Intro to Social Research or CRIM 251 Research Methods................3
Inclusive Early Childhood Education: Birth to Grade 3 Option

Students enrolled in this option will meet the requirements for the Nebraska Early Childhood Education Unified (Birth to Grade 3) Teaching Certificate Endorsement. The program is based on an inclusive, family-focused style of working with young children across the range of abilities and disabilities, and on collaboration and teamwork. They gain a view of the field that integrates education, prevention, and intervention services. The program will prepare students for careers working in a variety of roles in early childhood classrooms and services.

Admission to the Inclusive Early Childhood Education Program (IECE)

Selection to the IECE teacher education program is selective and based on the following criteria:

1. Completion of at least 30 credit hours with a minimum 2.5 GPA.
2. Completion of T EAC 331 or CESH 200; CYAF 271 and 271L; or CYAF 270 and 270L; and T EAC 297A (with grade C+ or above); and one course in speech communication.
3. Documentation of proficiency in reading, writing, and mathematics through successful completion of a basic skills examination that meets the Nebraska Department of Education competency requirement. Students may take the Pre-Professional Skills Test (PPST), Computer Based Academic Skills Assessment (CBT), or Content Mastery Examination for Educators (CMEE).

4. Demonstration of professional promise as determined by a faculty/program selection committee and based on the following:
   a. Academic achievement
   b. Participation and leadership in school or community
   c. Practicum evaluations
   d. Commitment to children and families and capacity to meet professional standards.

Personal-Social Adjustment

Student performance is reviewed by the faculty every semester. Where the Program Committee in Inclusive Early Childhood Education has reason to feel there is instability in the student's personal-social behavior, the student may be asked to confer with a counselor to determine the degree to which the student can be expected to adjust to the service agency, school, and/or classroom environments.

Admission to Student Teaching

All students who are candidates for the IECE endorsement must student teach. Students who plan to student teach in the fall semester apply by the preceding March 1 to the Chair of the IECE Program Committee-students planning to student teach in spring apply by the preceding October 1. Admission to student teaching requires the following:

1. Matriculation in the College of Education and Human Sciences.
2. Admission to the IECE teacher education program.
3. Senior standing (89 hours or more) with a minimum cumulative GPA of 2.5.
4. Minimum average of 2.5 in professional education courses and no grade below C.
5. Completion of preprofessional and professional requirements.
6. Review and approval by the IECE Program Committee-Basic skills, course grades, communication skills, and personal-social adjustment will be considered.

The Nebraska Department of Education policy requires that a person with a felony or misdemeanor conviction involving abuse, neglect, or sexual misconduct shall not be allowed to participate in field experiences or classroom teaching without approval by the Board of Education.
Cours es of Instruction (CYAF)

Students in the family science option must complete CYAF 160, 280, and 222 with a 2.5 GPA in the three courses prior to enrolling in upper division courses.

[ES] 120. Individuals and Families as Consumers [3 cr] (UNL, UNO)
Economic problems and responsibilities of consumers. Guides for developing good buying skills for individual or household use.

[ES] 160H. Honors Individuals and Families as Consumers [3 cr] (UNL, UNO)
Prereq: Good standing in the University Honors Program or by invitation. Open to College of Education and Human Sciences honor program students only.
For course description, see CYAF 120.

Developmental life cycle approach to the study of the individual from conception to death. Each stage of life studied from the perspective of how individual development is fostered within the family system.

Prereq: Good standing in the University Honors Program or by invitation.
For course description, see CYAF 160.

170. Introduction to Early Child Care and Education [3 cr]
Introduction to early care and education and applied child development. Different philosophical and educational approaches to working with young children with a range of abilities in a variety of settings.

222. Introduction to Family Finance [3 cr] (UNL, UNO)
Prereq: Sophomore standing. 4 hrs open to students with credit in FINA 260 or equivalent.
Individual and family financial planning. Emphasis on financial planning for families in the early life cycle. Application of credit, insurance, savings, investments, taxes, and estate planning information to individual and family needs.

270. Development of the Preschool Child [2 cr] (UNL, UNO)
Prereq: CYAF 180 or 160H, or equivalent; parallel CYAF 270L.
Growth and behavior related to the preschool years; ages two through five.

270L. Development of the Preschool Child-Laboratory [1 cr] (UNL, UNO)
Lab. Prereq: CYAF 160 or 160H, or equivalent; parallel CYAF 270L.
Observation of and participation in the care and guidance of preschool children.

Prereq: CYAF 160 or 160H, or equivalent; parallel CYAF 271L.
Human growth and behavior from conception to three years of age from a holistic and ecological perspective including application of knowledge to the care and education of infants and toddlers.

271L. Infancy Laboratory [1 cr] (UNL, UNO)
Lab. Prereq: CYAF 160 or 160H, or equivalent; parallel CYAF 271L.
Human growth and behavior from conception to three years of age.

Introduction to research and theory on family relationships and to careers working with children and families. Family systems and how they are affected by healthy and unhealthy processes. How ethnicity, gender and social class influences family living.

281. Communication and Interviewing Skills for Helping Professionals [3 cr] (UNL, UNO)
Prereq: 9 hrs of CYAF or social sciences.
Skill development: learning and applying interviewing skills that are used in the helping professions. Models that foster students understanding of the helping process and their ability to practice communication and interviewing skills with individuals and families.

299H. Honors Independent Study [1-5 cr, max 5]
Prereq: Good standing in the University Honors Program or by invitation; College of Education and Human Sciences honor program student; and a major in one of the Human Sciences areas.
Grade only.
Human growth and behavior from conception to three years of age.

322. Advanced Family Finance [3 cr] (UNL, UNO)
Prereq: CYAF 222 or equivalent.
Critical analysis and intervention strategies of family finance issues across the life span.

Prereq: 3 hrs of CYAF or equivalent; parallel CYAF 333L.
The determinants of economic well-being of individuals and families over time. The consequences of family economic well-being for family functioning and outcomes. Family economic theories and concepts. How families develop, acquire, maintain, and conserve scarce resources to attain desired levels of living.

372. Middle Childhood and Adolescence [3 cr] (UNL, UNO)
Prereq: CYAF 160 or 160H, or equivalent; parallel CYAF 372L.
The teacher’s role in facilitating early childhood learning through planning, implementing, and evaluating developmentally appropriate activities for young children in a supervised early childhood laboratory setting.

374. Curriculum Planning in Early Childhood Education [3 cr] (UNL, UNO)
Prereq: CYAF 160 or 160H, or equivalent; parallel CYAF 374L.
The teacher’s role in facilitating early childhood learning through planning, implementing, and evaluating developmentally appropriate activities for young children in a supervised early childhood laboratory setting.

374L. Curriculum Planning in Early Childhood Education-Laboratory [1 cr] (UNL, UNO)
Lab. Prereq: CYAF 160 or 160H, or equivalent; parallel CYAF 374L.
The teacher’s role in facilitating early childhood learning through planning, implementing, and evaluating developmentally appropriate activities for young children in a supervised early childhood laboratory setting.

381. Family Intervention with Fieldwork [3 cr] (UNL, UNO)
Prereq: CYAF 160 or 160H, or equivalent; parallel CYAF 381L.
Differences in parenting, sibling relationships, sequencing, documenting, and evaluating early childhood intervention.

384. Family Intervention with Fieldwork-Laboratory [1 cr] (UNL, UNO)
Lab. Prereq: CYAF 160 or 160H, or equivalent; parallel CYAF 384L.
Differences in parenting, sibling relationships, sequencing, documenting, and evaluating early childhood intervention.

385. Family Intervention with Fieldwork [3 cr] (UNL, UNO)
Prereq: 12 hrs of CYAF or closely related areas, or permission; parallel CYAF 385L.
Individual problems and readings in current literature.

386. Honors Independent Study in Family and Consumer Sciences [1-5 cr, max 5] (UNL, UNO)
Prereq: Good standing in the University Honors Program or by invitation; 12 hrs of CYAF or closely related areas, or permission; parallel CYAF 386L.
Individual problems and readings in current literature under the direction of a faculty member in the department.

401/801. Family and Consumer Sciences Curriculum [3 cr] (UNL, UNO)
Lec. Prereq: Parallel CYAF 401/801.
Development of curriculum for Family and Consumer Sciences (CYAF) using student-centered, interactive methods of instruction.

401A/801A. Family and Consumer Sciences Education Practicum [1-3 cr] (UNL, UNO)
Lab. Prereq: Parallel CYAF 401/801A.
Ungraduate students register for CYAF 401A for 1 cr hour. Graduate students register for CYAF 801A for up to 3 cr hours. Development and implementation of teaching plans in a supervised 7th to 12th grade setting.

402/802. Family and Consumer Sciences Method of Instruction [3 cr] (UNL, UNO)
Lec. Prereq: Parallel CYAF 402/802.
Develop teaching and/or learning plans for teaching Family and Consumer Sciences. Analyze classroom management practices and develop plans for assessment.

402A/802A. Family and Consumer Sciences Education Practicum [1-3 cr] (UNL, UNO)
Lab. Prereq: Parallel CYAF 402/802A.
Development and implementation of teaching plans in a supervised setting in school grades 7th to 12th. Observation of the effectiveness of classroom management practices.

407. Supervisory Leadership [3 cr] (UNL, UNO)
Prereq: Parallel CYAF 407/807.
For course description, see CYAF 407/807.

NOTE: All CYAF 413/813 sections require advance reservation for a specific semester before enrolling in course.

413/813. Student Teaching in Family and Consumer Sciences [12 cr] (UNL, UNO)
Prereq: CYAF 401/801 and 402/802. Pass No Pass only.
Actual experience in the teaching of Family and Consumer Sciences. Fourteen weeks of supervised student teaching experience. One middle level and one high school experience required.

416/816. Educational Programming [3 cr] (UNL, UNO)
Prereq: Junior standing. Not open to family and consumer sciences education majors in the certificate track.
Planning and implementing developmentally appropriate educational experiences for a variety of audiences in non-formal settings.

443/843. Addictions and Violence in Families [3 cr] (UNL, UNO)
Prereq: Junior standing and 12 hrs in one of the departments in which the course is listed.
Open to advanced students planning careers in the professions in which knowledge of human behavior and society is important (e.g., helping professions, medicine, law, sociology, etc.)
For course description, see PSYC 471/871.

474/874. Assessment in Early Childhood [3 cr] (UNL, UNO)
Prereq: 12 hrs of CYAF, or related social sciences including CYAF 270 and 270L.
Selection, use, and interpretation of assessment instruments for understanding the developmental level of children from birth through age eight. Assessment of reasoning and thinking processes and concept formation in children. Contribution of Piaget and others in providing new insights. Implications of these for teachers, parents, and others working with young children.

477/877. Administration of Early Childhood Programs [3 cr] (UNL, UNO)
Prereq: 12 hrs of CYAF, or related social sciences including CYAF 270 and 270L.
Special topics in early childhood education. Topics vary.

Prereq: 9 hrs of CYAF or related social sciences. Participation in a community-based project involving the practical application of program design and evaluation methods is required.
Principles and methods of program design, implementation, and outcome evaluation of children and family programs.

471/871. Human Sexuality and Society (EDPS, PSYC, SOC 147/871) [3 cr] (UNL, UNO)
Prereq: Junior standing and 12 hrs in one of the departments in which the course is listed.
Open to advanced students planning careers in the professions in which knowledge of human behavior and society is important (e.g., helping professions, medicine, law, sociology, etc.)
For course description, see PSYC 471/871.

Prereq: 12 hrs of CYAF, or related social sciences including CYAF 270, 270L, 416/816.
Nature and development of reasoning and thinking processes and concept formation in children. Contribution of Piaget and others in providing new insights. Implications of these for teachers, parents, and others working with young children.

477/877. Administration of Early Childhood Programs [3 cr] (UNL, UNO)
Prereq: 12 hrs of CYAF, or related social sciences including CYAF 270 and 270L.
Administration of early childhood programs.

NOTE: All CYAF 497/897 courses require advance application and reservation for a specific semester before enrolling in course.

Department of Child, Youth, and Family Studies/College of Education and Human Sciences/273
Department of Nutrition and Health Sciences

Chair: Professor Marilyn Schnepf

Professors: Boekner, Driskell, Housh, Lewis

Associate Professors: Albrect, Carr, H amouz, Scheer, Schmidt, Stanek-Krogstand, Zempleni

Extension Associate Professor: Kozeswki

Assistant Professor: Jones

Senior Lecturers: Perry, R udy

Lecturers: M cM een, Y ung

There are six options in the Department of Nutrition and Health Sciences. The dietetics option; the nutrition science option; the dietetics/journalism and mass communications option; the nutrition, exercise, and health science option; the culinary science option; the athletic training education option; and the hospitality, restaurant and tourism management major.

Acceptance of Grades

Only grades of C or above will count toward graduation requirements for department (N UTR) classes.

Graduate Study

Advanced degrees of master of science in nutrition and health sciences and master of science and doctor of philosophy degrees are offered in the interdepartmental nutrition program as well as in the College of Education and Human Sciences. For details see the Graduate Studies Bulletin.

1. Dietetics (Didactic Program in Dietetics)

The dietetics option is designed for students who wish to become practitioners in clinical, community, and foodservice areas of nutrition. The University of Nebraska Dietetic Program in Dietetics is currently granted approval status by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312/899-0040. Upon graduation all students will receive a verification statement indicating completion of program requirements.

The Department of Nutrition and Health Sciences will provide a verification statement of a student meeting Didactic Program in Dietetics (DPD) requirements based on the program in effect in the undergraduate bulletin. To be considered for graduation requirements if the student is continuously enrolled and graduates within five years. If the student cannot finish their studies within this five-year time period, they must comply with the didactic program requirements reflected in the undergraduate bulletin in effect at the time of application. The Department of Nutrition and Health Sciences will not accept coursework to meet DPD requirements from any university outside the University of Nebraska system in which a grade of D-, D, or D+ was earned.

In order to receive a verification statement of a student meeting DPD program in Dietetics requirements a minimum of 15 credits from 300- or 400-level courses must be completed at the University of Nebraska-Lincoln. Nine of the 15 credit hours must come from three of the following classes: N UTR 450 Medical Nutrition Therapy I, N UTR 452 & 452L Medical Nutrition Therapy II and Lab, or N UTR 455 Advanced Nutrition, or N UTR 473 Organization and Administration of Foodservice.

Following graduation, an accredited supervised practice program is required before students are eligible to take the examination. Registered dietitians are employed by hospitals, community agencies, and various government or private organizations. The minimum of 120 credit hours required for graduation is to be met as follows:

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<tr>
<th>Hours</th>
<th>Comprehensive Education</th>
<th>33-36</th>
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<td>6</td>
<td>Speech</td>
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<td>Select from: COMM 209, 209</td>
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<td>Composition in W riting</td>
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<td>(M ath requirement waived if placed above M ATH 101 or M ATH Placement Exam)</td>
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<tr>
<td>3</td>
<td>STAT 218 Intro to Statistics or EDPS 459</td>
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<td>Statistical Methods</td>
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<td>N UTR 100 Nutrition, Exercise &amp; Health</td>
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<td>PSY 181 Intro to Psychology</td>
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<td>Science and Technology</td>
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<td>BI0 S 101 and 101G Biology Lab or</td>
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<td>BI0 S 102 Cell Structure &amp; Function</td>
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<tr>
<td>4</td>
<td>BI0 S 103 Organic Biology</td>
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</tbody>
</table>
2. Culinary Science

The culinary science (Culinology®) option is the emerging discipline of the culinary arts, nutrition, and the science of food. Culinology® is becoming a recognized and valued discipline that will significantly impact food research and development in the global market. Culinologists are skilled chefs who are creating a new generation of exciting, high-quality convenience food products. The food industry needs and rewards people who understand and can apply the principles of this specialty. The minimum of 120 hours required for graduation is to be met as follows:

### Hours

**Comprehensive Education** ............................................. 3:32

- Composition and Writing
- Select from: ENGL 101, 150, 151; JGEN 200, 300

- Mathematics and Statistics
- MATH 101 College Algebra
- STAT 218 Introduction to Statistics

- If a student does not place into MATH 101, they must complete the appropriate course(s) above MATH 101, they will take either MATH 101 or the math course they placed into.

**Human Behavior, Culture, and Social Organization**

- ECOR 210 Intro to Economics or ECOR 211 Principles of Microeconomics (3 cr) & 212 Principles of Macroeconomics (3 cr).

**Science and Technology**

- CHEM 101 General Chemistry

- Select one course from:
  - Area E
  - Area F

- Select one course from:
  - Area G

- Professional Electives

### Total 120

3. Nutrition Science (Pre-Professional)

The nutrition science option is designed for students who wish to combine an emphasis in nutrition with a strong science background. This major provides an appropriate vehicle for premedicinal, preprofessional, nursing, physical therapy, and laboratory technology majors who may be able to obtain a degree in nutrition and simultaneously meet entrance requirements for a professional program. It is also a suitable avenue for students interested in nutrition research and graduate study since it provides an opportunity to emphasize the basic sciences. **NOTE:** The admission requirements for pre-professional programs vary and may change from year to year. Admission to professional programs is competitive. Students need to be aware of not only specific course requirements but also entrance exams, admission deadlines, research and volunteer opportunities, and other activities that enhance the application. In order to receive the most timely information on requirements and preparation, students should visit the Arts and Sciences Advising Center, 107 O’Leary Hall, 472-4100. The minimum of 120 credit hours required for graduation is to be met as follows:

**Hours**

**Comprehensive Education** ............................................. 36

- Speech

- Select from: ALEC 102; COM M 109

- Composition and Writing

- Select from: ENGL 101, 150, 151; JGEN 200, 300

- Mathematics and Statistics

- STAT 218 Introduction to Statistics or EDP 459 Statistical Methods (3 cr)

- MATH 101 or higher, trigonometry or calculus (3 cr)

- Human Behavior, Culture, and Social Organization

- PSY 181 Intro to Psychology

- Select one course from: Area C

- Science and Technology

- CHEM 109 General Chemistry I or DMS 110 General Chemical Concepts

- Historical Studies

- Select one course from:
  - Area G

- Electives

**Total 120**
4. Dietetics/Journalism and Mass Communications

The dietetics/journalism and mass communications option provides an opportunity for students to combine an interest in journalism with a major in dietetics. Please refer to the Dietetics Option (page 274) for Didactic Program in Dietetics requirements and additional information.

This option provides the registered dietitian with additional media-related employment opportunities. Students must meet requirements for enrollment in College of journalism and M as Communication courses The minimum of 141 advertising, 144 news editorial, 144 broadcasting news, and 144 broadcasting production credit hours required for graduation are met as follows:

**Hours**

**Comprehensive Education** .................................................. 33-36

**Communications** ................................................................. 6

**Speech** ............................................................................. 3

**Select from:** COM M 109, 209

**Composition and Writing** .................................................. 3

**Select from:** EN GL 101, 150, 151) JGEN 201, 300

**Mathematics and Statistics** .................................................. 3-6

**MATH 101** or higher, trigonometry or calculus

**Select one of the following Journalism and Mass Communications EmphasisAreas**

**Broadcasting News Emphasis** ............................................. 38

**ADVT 332 Principles & Promotion**

**Writing** ............................................................................. 3

**ADVT 333 Communications Graphics** .................................. 3

**ADVT 423 Strategic Communications**

**Research & Strategy** ............................................................. 3

**ADVT 460 Media Planning & Strategy** ................................. 3

**ADVT 489 Advertising & Public Relations**

**JOUR 101 Principles of Mass Media** ................................. 3

**JOUR 102 he Art of Writing** .................................................. 3

**JOUR 142 Visual & Aural Literacy** ....................................... 2

**JOUR 204 Information Gathering** ....................................... 3

**JOUR 486 Mass Media Law** .................................................. 2

**JOUR 487 Mass Media & Society** ....................................... 3

**News 202 Beginning Reporting** ............................................. 3

**Broadcasting Production Emphasis** .................................... 31

**BR DC 393 Digital Video Production** ................................. 3

**BR DC 395 Television Production** ...................................... 3

**BR DC 399 Video Production** ............................................. 3

**BR DC 359 Cinematography-Video Production** .................... 3

**BR DC 360 Broadcast Writing** ............................................. 3

**BR DC 362 Advanced Production** ....................................... 3

**JOUR 101 Principles of Mass Media** .................................. 3

**JOUR 102 he Art of Writing** .................................................. 3

**JOUR 142 Visual & Aural Literacy** ....................................... 2

**JOUR 204 Information Gathering** ....................................... 3

**JOUR 486 Mass Media Law** .................................................. 2

**JOUR 487 Mass Media & Society** ....................................... 3

**News 202 Beginning Reporting** ............................................. 3

**Broadcasting Production Emphasis** .................................... 31

**BR DC 362 Principles of Audio Production** .......................... 3

**BR DC 363 Television Production** ...................................... 3

**BR DC 367 Journalistic Production** .................................... 3

**BR DC 359 Cinematography-Video Production** .................... 3

**BR DC 360 Broadcast Writing** ............................................. 3

**BR DC 362 Advanced Production** ....................................... 3

**JOUR 101 Principles of Mass Media** .................................. 3

**JOUR 102 he Art of Writing** .................................................. 3

**JOUR 142 Visual & Aural Literacy** ....................................... 2

**JOUR 204 Information Gathering** ....................................... 3

**JOUR 486 Mass Media Law** .................................................. 2

**JOUR 487 Mass Media & Society** ....................................... 3

**News 201 Principles of Editing** ............................................. 3

**News 202 Beginning Reporting** ............................................. 3

**News 302 Best Reporting** .................................................... 3

**News 306 Lab Newspaper** .................................................... 3

**Set one of the following** ...................................................... 3

**NEWS 303 Advanced Editing (3 cr)**

**NEWS 304 News Photography (3 cr)**

A 400-level writing/reporting course in

**NEWS sequence (N EWS 401, 498, 441) (3 cr)**}

**Journalism elective** ........................................................... 3

5. Nutrition, Exercise and Health Science

The Nutrition, Exercise and Health Science option is designed for those students interested in planning, conducting and managing health-related fitness and wellness programs in a variety of settings. Graduates are prepared to enter a variety of health/fitness/related positions such as fitness/wellness programs provided by corporations for their employees, health assessment, and cardiac rehabilitation programs provided by hospitals or medical clinics programs provided by YM CA’s private health clubs and commercial fitness clubs, government or private agencies which provide.
health or fitness assessment or lifestyle behavior modification programs for employees or other groups of individuals and community recreation centers. Training in fitness and lifestyle-related endeavors. The nutrition, exercise and health science option provides an appropriate vehicle for premedical, predental, preprofessional and prephysical therapy majors who may be able to obtain a degree in nutrition and simultaneously prepare for a career in a professional program. The minimum of 120 credit hours required for graduation is to be met as follows.

### Comprehensive Education

<table>
<thead>
<tr>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>33-36</td>
<td>Communications</td>
</tr>
<tr>
<td></td>
<td>Speech</td>
</tr>
<tr>
<td></td>
<td>Select from: COMM 109, 209</td>
</tr>
<tr>
<td></td>
<td>Composition and Writing</td>
</tr>
<tr>
<td></td>
<td>Select from: ENGL 101, 150, 151/JGEN 200, 200, 300</td>
</tr>
<tr>
<td>6</td>
<td>Mathematics and Statistics</td>
</tr>
<tr>
<td>3-6</td>
<td>MATH 101 or higher, trigonometry or calculus</td>
</tr>
</tbody>
</table>
| 3     | (Math requirement waived if placed above)

### Professional Requirements

<table>
<thead>
<tr>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>O vitals of C or above will count toward graduation requirements</td>
</tr>
<tr>
<td></td>
<td>NUTR 150 Foundations in Nutrition &amp; Health Promotion</td>
</tr>
<tr>
<td>39</td>
<td>NUTR 244 Principles of Food Preparation</td>
</tr>
<tr>
<td>1</td>
<td>NUTR 151 Nutrition &amp; Metabolism</td>
</tr>
<tr>
<td>3</td>
<td>NUTR 251 Nutrition Through the Life Cycle</td>
</tr>
<tr>
<td>3</td>
<td>NUTR 344 Food &amp; Nutrition for Health Living</td>
</tr>
<tr>
<td>3</td>
<td>NUTR 384 Biomechanics Human Movement</td>
</tr>
<tr>
<td>3</td>
<td>NUTR 142 Medical Nutrition Therapy</td>
</tr>
<tr>
<td>3</td>
<td>NUTR 456 Clinical Exercise Physiology</td>
</tr>
<tr>
<td>3</td>
<td>NUTR 453 Nutrition &amp; Fitness Communication Strategies</td>
</tr>
<tr>
<td>3</td>
<td>NUTR 455 Advanced Nutrition</td>
</tr>
<tr>
<td>3</td>
<td>NUTR 484 Physiology of Exercise</td>
</tr>
<tr>
<td>3</td>
<td>NUTR 486 Exercise Testing &amp; Exercise Programming in Adult Fitness &amp; Cardiovascular Rehabilitation</td>
</tr>
<tr>
<td>4</td>
<td>NUTR 488 Practicum in Exercise &amp; Health Behavior Planning</td>
</tr>
<tr>
<td>25</td>
<td>Supporting Sciences</td>
</tr>
<tr>
<td></td>
<td>BIO C 321 &amp; 322L Elements of Biochemistry &amp; Lab</td>
</tr>
<tr>
<td></td>
<td>BIO S 213 &amp; 213L Human Physiology &amp; Lab (students select one)</td>
</tr>
<tr>
<td></td>
<td>BOS 214 Human Anatomy (grade of C or higher is required)</td>
</tr>
</tbody>
</table>

### Electives

Select 15 courses as needed. Total 120

### 6. Athletic Training Education

Athletic training is the art and science of treating athletic injuries. The Commission on Accreditation of Athletic Training Education (CAATE) develops and maintains guidelines for the education programs to provide an educational experience for athletic training and verifies that those standards have been met. The University of Nebraska athletic training program is currently granted accreditation by the CAATE.

The underlying philosophy of this program is the same as all other parts of the University of Nebraska athletic medicine program. The athletic training education program is dedicated to providing students with educational programming that is recognized as excellent. It is dedicated to providing students with opportunities to have clinical experiences with teams noted for excellence, in facilities noted for excellence. It is also expected that students will display excellence in academic and clinical settings, and will adhere to the highest standards as put forth in the National Athletic Trainers Association Code of Professional Ethics. The University of Nebraska athletic training education program is dedicated to the continual assessment of our program and our students in order to maintain our standards.

The Athletic Training Education Program is housed in the Department of Nutrition and Health Sciences. Completion of the entire program constitutes a major field of study. Students completing the course of study are eligible to sit for the National Board of Certification Examination. Students are required to earn a B- or higher in all ATHT courses. All other ATHT courses must be C+ or higher and must average at least 3.0 to remain in good standing in the program and graduate. The minimum grade requirements for other courses vary. Students are strongly encouraged to contact the advising center for a complete program description.

Admission to the Athletic Training Education Program is competitive. Included in athletic training education are six semesters of required clinical internship. The minimum of 120 credit hours required for graduation is to be met as follows.

### Comprehensive Education

<table>
<thead>
<tr>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>Communications</td>
</tr>
<tr>
<td></td>
<td>Speech</td>
</tr>
<tr>
<td></td>
<td>Select from: COMM 109, 209</td>
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<td>Composition and Writing</td>
</tr>
<tr>
<td></td>
<td>Select from: ENGL 101, 150, 151/JGEN 200, 200, 300</td>
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<tr>
<td>5</td>
<td>Mathematics and Statistics</td>
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<tr>
<td></td>
<td>MATH 102 Trigonometry</td>
</tr>
<tr>
<td>3</td>
<td>Statistics</td>
</tr>
<tr>
<td>3</td>
<td>HUMAN BEHAVIOR, CULTURE, AND SOCIAL ORGANIZATION</td>
</tr>
<tr>
<td>4</td>
<td>NUTR 100 Nutrition, Exercise &amp; Health</td>
</tr>
<tr>
<td>4</td>
<td>PSY C 181 Intro to Psychology</td>
</tr>
<tr>
<td>4</td>
<td>ATHC 279 Coaching Effectiveness &amp; Psychological Components of Sports Performance</td>
</tr>
</tbody>
</table>

### Electives

Select 15 courses as needed. Total 120

### Bachelor of Science Degree in Hospitality, Restaurant and Tourism Management

The bachelor of science in hospitality, restaurant and tourism management is offered by the College of Education and Human Sciences and the College of Agricultural Sciences and Natural Resources. The hotel and restaurant and tourism management program prepares individuals to serve as general managers and directors of hospitality operations by providing an excellent foundation in hospitality, leadership, and business. Students complete a minor in business administration. The program integrates hospitality marketing strategies, communication and financial management into a curriculum focused on managing facilities and operations that provide hospitality services to the public.

Students select from six emphasis areas offered by the College of Education and Human Sciences: Food and Beverage; Lodging;
Convention and M eeting Planning; Human Resources; Public Relations; Journalism and M ass Communications or two emphasis areas offered by the College of Agricultural Sciences and N atural Resources: Ecotourism and Parks and Recreation.

The Culinology®-Hospitality Management Club sponsors student competitions and awards, including a 15th Annual Scholarship Banquet.

The minimum of 120 credit hours required for graduation, which includes two mini-internships early in their program and a 6-credit-hour internship completed at the end of the academic year, is met as follows:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Comprehensive Education</th>
<th>35-36</th>
</tr>
</thead>
</table>

**HOURS**

**Comprehensive Education**

- All courses M UST be taken for a grade except Historical Studies, Arts, and Electives.

| Communications | 3 |

**Science & Technology**


| Math and Statistics | 6 |

**Human Behavior, Culture, Social Organization**

- Select from: ENGL 210 [E] Intro to Economics, ECON 211 [E] Principles of Microeconomics (3 cr) and ECON 212 [E] Principles of Microeconomics (3 cr)

| Science & Technology | 8 |

**Humanities**

- Select from: ESSENTIAL STUDIES List Section E...

| Race Ethnicity and Gender | 3 |

**Electives for Convention/Meeting**

- Complete Leadership Communications 18 hr

| Electives for Public Relations | 8-11 |

**Human Resources**

- Complete Leadership Communications 18 hr

| Lodging | 46 |

**Human Resources**

- Complete Leadership Communications 18 hr

| Lodging | 46 |

**Human Resources**

- Complete Leadership Communications 18 hr

| Lodging | 46 |

**Human Resources**

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**Human Resources**

- Complete Leadership Communications 18 hr

| Lodging | 46 |

**Human Resources**

- Complete Leadership Communications 18 hr

| Lodging | 46 |
### Courses of Instruction

#### Athletic Training (ATH T)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prereqs/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>235. First Aid and Care of the Athlete</td>
<td>3</td>
<td>Prereqs: ATH T 245 and parallel ATH T 246.</td>
</tr>
<tr>
<td>245. Organization and Administration of Athletic Training (3 cr)</td>
<td>3</td>
<td>Prereqs: ATH T 146 and permission; parallel ATH T 247. Supporting the daily activities of athletic trainers. Legal concepts, forms and record keeping, drug testing, insurance, concepts of financial management, facility management, and personnel management.</td>
</tr>
<tr>
<td>246. Prevention and Care of Athletic Injuries (3 cr)</td>
<td>3</td>
<td>Prereqs: ATH T 245 and parallel ATH T 246. The athletic trainer's duties and function in dealing with the prevention of athletic injuries through administering physical examinations, analyzing sports risk, supervising physical conditioning, and monitoring environmental conditions.</td>
</tr>
<tr>
<td>247. Clinical Education I (1 cr) Lab.</td>
<td>3</td>
<td>Prereqs: Preper: ATH T 245. O rganization skills in athletic training. Demonstration and practice of skills in the evaluation of physical examinations, practice of common skills found within the domains of athletic training, and use of appropriate wound care techniques.</td>
</tr>
<tr>
<td>248. Clinical Education II (1 cr)</td>
<td>3</td>
<td>Prereqs: Preper: ATH T 246. Prevention skills in athletic training and demonstration and practice of skills in the use of various devices and techniques necessary to screen and evaluate athletes' fitness and health; use of commercial conditioning equipment, commercial conditioning equipment, and the use of taping, wrapping, splints and braces.</td>
</tr>
<tr>
<td>249. Therapeutic Modalities (3 cr) Lec, lab.</td>
<td>3</td>
<td>Prereqs: Preper: PHYS 141 or 151. Therapeutic techniques for the relief of pain, muscle spasm, and joint stiffness. Therapeutic modalities include: physical agents such as heat, cold, ultrasound, and electrical stimulation.</td>
</tr>
<tr>
<td>247. Clinical Education III (1 cr)</td>
<td>3</td>
<td>Prereqs: Preper: PHYS 141 or 151. Clinical education and practice of skills in the evaluation of athletic injuries and illnesses for the purpose of formulating plans for the prevention of injury and illness.</td>
</tr>
<tr>
<td>249. Therapeutic Modalities (3 cr) Lec, lab.</td>
<td>3</td>
<td>Prereqs: Preper: PHYS 141 or 151. Therapeutic techniques for the relief of pain, muscle spasm, and joint stiffness. Therapeutic modalities include: physical agents such as heat, cold, ultrasound, and electrical stimulation.</td>
</tr>
</tbody>
</table>

#### Nutrition (NUTR)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prereqs/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>119. Introduction to Hospitality Management (1 cr)</td>
<td>1</td>
<td>Prereqs: Preper: Intro to Hospitality Management. Orientation to the hospitality and restaurant industry; industry characteristics; organization structure; growth; trends in dining; and career opportunities.</td>
</tr>
<tr>
<td>122. Field Experience in Hospitality Management (1 cr)</td>
<td>1</td>
<td>Prereqs: Preper: Intro to Hospitality Management. Supervised individual professional experience with a qualified cooperating practicing professional in service (front-of-the-house) within hospitality management.</td>
</tr>
<tr>
<td>201. Elements of Health (3 cr)</td>
<td>3</td>
<td>Prereqs: Preper: Intro to Hospitality Management. Supervised individual professional experience with a qualified cooperating practicing professional in service (back-of-the-house) within hospitality management.</td>
</tr>
<tr>
<td>245. Organization and Administration of Athletic Training (3 cr)</td>
<td>3</td>
<td>Prereqs: ATH T 146 and permission; parallel ATH T 247. Supporting the daily activities of athletic trainers. Legal concepts, forms and record keeping, drug testing, insurance, concepts of financial management, facility management, and personnel management.</td>
</tr>
<tr>
<td>246. Prevention and Care of Athletic Injuries (3 cr)</td>
<td>3</td>
<td>Prereqs: ATH T 245 and parallel ATH T 246. The athletic trainer's duties and function in dealing with the prevention of athletic injuries through administering physical examinations, analyzing sports risk, supervising physical conditioning, and monitoring environmental conditions.</td>
</tr>
<tr>
<td>247. Clinical Education I (1 cr) Lab.</td>
<td>3</td>
<td>Prereqs: Preper: ATH T 245. O rganization skills in athletic training. Demonstration and practice of skills in the evaluation of physical examinations, practice of common skills found within the domains of athletic training, and use of appropriate wound care techniques.</td>
</tr>
<tr>
<td>248. Clinical Education II (1 cr)</td>
<td>3</td>
<td>Prereqs: Preper: ATH T 246. Prevention skills in athletic training and demonstration and practice of skills in the use of various devices and techniques necessary to screen and evaluate athletes' fitness and health; use of commercial conditioning equipment, commercial conditioning equipment, and the use of taping, wrapping, splints and braces.</td>
</tr>
<tr>
<td>249. Therapeutic Modalities (3 cr) Lec, lab.</td>
<td>3</td>
<td>Prereqs: Preper: PHYS 141 or 151. Therapeutic techniques for the relief of pain, muscle spasm, and joint stiffness. Therapeutic modalities include: physical agents such as heat, cold, ultrasound, and electrical stimulation.</td>
</tr>
<tr>
<td>247. Clinical Education III (1 cr)</td>
<td>3</td>
<td>Prereqs: Preper: PHYS 141 or 151. Clinical education and practice of skills in the evaluation of athletic injuries and illnesses for the purpose of formulating plans for the prevention of injury and illness.</td>
</tr>
<tr>
<td>249. Therapeutic Modalities (3 cr) Lec, lab.</td>
<td>3</td>
<td>Prereqs: Preper: PHYS 141 or 151. Therapeutic techniques for the relief of pain, muscle spasm, and joint stiffness. Therapeutic modalities include: physical agents such as heat, cold, ultrasound, and electrical stimulation.</td>
</tr>
</tbody>
</table>

#### Journalistic Emphasis (3 cr)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prereqs/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>250. Nutrition and Metabolism (3 cr)</td>
<td>3</td>
<td>Prereqs: Preper: 4 hours chemistry or biological sciences. Introduction to nutrient function in the body, nutrient chemistry and energy metabolism. Role of nutrients in health and disease.</td>
</tr>
</tbody>
</table>

#### Health Professions

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prereqs/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>250. Nutrition and Metabolism (3 cr)</td>
<td>3</td>
<td>Prereqs: Preper: 4 hours chemistry or biological sciences. Introduction to nutrient function in the body, nutrient chemistry and energy metabolism. Role of nutrients in health and disease.</td>
</tr>
</tbody>
</table>

#### Communication Emphasis (3 cr)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prereqs/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>250. Nutrition and Metabolism (3 cr)</td>
<td>3</td>
<td>Prereqs: Preper: 4 hours chemistry or biological sciences. Introduction to nutrient function in the body, nutrient chemistry and energy metabolism. Role of nutrients in health and disease.</td>
</tr>
</tbody>
</table>

452L. Medical Nutrition Therapy Laboratory (1 cr) Lec 3. Application of medical nutrition therapy to disease states.


584. Physiology of Exercise (3 cr) Lec 3. Exercise testing and exercise programming. Effects of physical activity on the circulatory, respiratory, and other physiological processes.

Practicum in Exercise and Health Behavior Plan-
ing (2 cr) Lec 1, Lab 1. Prereq: NUTR 435 and 490. Practical experience in exercise testing and analysis and plan-
ing of health and fitness programs for individuals.

489 889. Convention and Meeting Planning (2 cr) Lec 1, Lab 3. Prereq: MGMT 320. Field trips to local convention and meet-
ing centers. Concepts for coordinating, developing, promoting and imple-
menting conventions, conferences and group meetings in hotels, conference centers and resorts.

490. Professional Preparation for Careers in Dietetics (1 cr) Lec 1. Prereq: Senior standing. Pass/No Pass only. Professional requirements in order to become a registered dietitian. Types of supervised practice experiences available and assistance in application process. Career options, profes-
sional organizations, and current issues in the dietetic profes-
sion.

492 892. Nutrition Problems (1-6 cr, max 6) Prereq: NUTR 455 or equivalent, and permission. Individual problems may be selected from diet therapy, animal feeding, metabolism studies, or surveys.

493. Workshop Seminar (1-12 cr, max 12)

495 895. Hospitality Management Study Tour (1-6 cr, max 6 III) Fld. Prereq: NUTR 470. N.U.T.R. 495 is required for students majoring in hospitality management. Broadening perspective and developing an understanding of the hospitality industry through visits to hospitality facilities, national food and equipment shows, food processors, equipment manufacturers and trade exchanges.

496 896. Independent Study (1-5 cr) Prereq: 12 hrs in major related area, permission. Supervised and evaluated by departmental faculty members. Individual projects in research, literature review, or creative production.

497. Student Teaching (1-14 cr, max 14) Fld. Prereq: Admission by application; completion of all required methods courses and classes, with minimum grades of C+ (2.33) per course. See "Admission to Student Teaching" on page 451.) Pass/No Pass only. For course description, see TEAC 497.

E. Elementary Physical Education (1-10 cr)

K. Secondary Health (1-10 cr)

U. Secondary Physical Education (1-10 cr)

488. Research Experiences (1-5 cr) Prereq: Senior standing and permission. Participation in an ongoing research project. Select from, food, human nutrition education, small animal, or survey research areas.

498. Honors Thesis (3 cr) Prereq: Good standing in the University Honors Program or by invitation. Conduct a scholarly research project and write a University Honors Program of undergraduate thesis.

800. Contemporary Nutrition (3 cr) Prereq: 3 hrs undergraduate nutrition and 6 hrs undergraduate natural science or permission.


812. Multimedia Applications for Education and Training (ALEC 412/812) (3 cr) Lec/ lab.

820. Molecular Nutrition (2 cr) Prereq: BIO C 381.

821. Molecular Nutrition Techniques (3 cr) Prereq: BIO C 381; NUTR 820 recommended.

*830. Measurement and Evaluation in Physical Educa-
tion (EDPS 330) (3 cr)

859. Nutrition: A Focus on Life Stages (3 cr) Lec 3. Prereq: 3 hrs undergraduate nutrition and 6 hrs undergraduate natural science or permission.

*869. History and Philosophy of Public Health (3 cr)

*870. Behavioral Foundations of Health Education (3 cr)

*871. Contemporary Approaches to Health Education (3 cr) Prereq: HH PG 870.


*890. Workshop Seminar (1-12 cr, max 12)

*893. Workshop Seminar (1-12 cr, max 12)
Prephysical Therapy

T his is neither a major nor a minor. Students wishing to follow a program of studies leading to admission to physical therapy school can receive advising assistance through the Department of Nutrition and Health Sciences. The requirements for admission to a physical therapy program vary from school to school, but generally include work in biological science, chemistry, physics, mathematics, and psychology.

Prephysical therapy is not a major in any college at UNL. Accordingly, the student must select a major from another field if he/she wishes to earn a bachelors degree.

Department of Textiles, Clothing and Design

Chair: Professor Michael James
Professors: Crow, James, Kean, Miller, J nemeyer, Trout, Weiss, Yang
Associate Professor: Vigna
Assistant Professors: Ha, McLeod
Professors Emeritus: Hillestad, Laughlin, Tondl
Senior Lecturers: Easy, Horvay

The department provides the educational framework for careers in the global textile and apparel industry. Students have the opportunity to specialize in areas of textile and apparel design, merchandising, marketing, and communication. Courses are planned for students with professional interests in one of the four areas of specialization. Lower level courses serve students from other disciplines with interest in this area. Selected courses serve as professional support for related disciplines. Textile science or the joint textiles, clothing and design/journalism and mass communication program. Students in merchandising receive a minor in marketing. Textile science students may receive a minor in chemistry (see advisor).

Courses are planned for students with professional interests in one of the four areas of specialization. Lower level courses serve students from other disciplines with interest in this area. Selected courses serve as professional support for related disciplines. Textile science or the joint textiles, clothing and design/journalism and mass communication program. Students in merchandising receive a minor in marketing. Textile science students may receive a minor in chemistry (see advisor).

Graduate Study

The advanced degrees of master of science or master of arts in textiles, clothing and design, and master of science and PhD in human sciences with emphasis in the area of textiles, clothing and design are available. The department offers a “thesis” MA degree via distance education in Textile History/Quilt Studies. For details, see the Graduate Studies Bulletin or contact the Graduate Chair, Textiles, Clothing and Design Department.

ALL UNDERGRADUATE STUDENTS IN THE TEXTILES, CLOTHING AND DESIGN DEPARTMENT take the following:

- College and University Comprehensive Education requirements
- Human Sciences Core
- Textiles, Clothing and Design introductory courses in years 1 & 2; specialization courses in one of the three options in years 3 & 4
- Textiles, Clothing and Design common completion courses in years 3 & 4 (except is TCD/Journalism and Mass Communications option)

Comprehensive Education................. 38-41
Communications................................. 6
Oral Communication.............................. 3
Must be E course
Composition and Writing....................... 3
Must be E course
Mathematics and Statistics.................... 3-5
Textiles and Apparel Design, and TCD/Journalism and Mass Communications choose:
ECON 210 [E] (5 cr) and PSYC 181
ECON 211 [E] (3 cr) and 212 [E] (3 cr)
CHEM 109 [E,I], 113 [E,I]......................... 4
and either ECON 211 [E] (3 cr) or PSY 101 [E] (3 cr) 
ECON 215 [E,I] (5 cr); EDPS 459 [E,I] (3 cr)....3-5
M 104 [E] (2 cr), 106 [E,I] (3 cr), 107 [E,I] (5 cr) 
TXCD 140B Visual Literacy: Perceptual Drawing (2 cr) ... 4
NOTE: Students can receive a minor in textiles, clothing and design by the time textile, clothing and design introductory courses are complete.

Common Completion Courses

TXCD 311 Clothing & Fabric Technology ...... 3
TXCD 312 Product Development I: Apparel
TXCD 313 Merchandising for Textile & Apparel Industry......................... 3
TXCD 314A Visual Literacy Lab: Color (2 cr) and 141B Visual Literacy Lab: Speculative Drawing (2 cr)......................... 4

Students select specialization by the time textile, clothing and design introductory courses are complete.

Common Completion Courses (Years 3 & 4).............. 11
M merchandising Textile Science and TCD/Journalism & Mass Media take:
TXCD 405 Advanced Textiles.................. 3
Textile and Apparel Design take:
TXCD 406 Textile Testing & Evaluation.............. 3
TXCD 408 History of Textiles [I].................. 3
TXCD 410 Socio-Psychological Aspects [I]...... 3
TXCD 498 Internship or 492 Professional Study Tour or both......................... 2

Textiles, Clothing and Design

Specializations.............................................. 15-41

Introductory courses (Years 1 and 2)................. 12-15
TXCD 143 Visual Literacy: Art & Design.............. 3
TXCD 206 Textiles [E]................................. 3
TXCD 212 Product Development I: Apparel
TXCD 213 Merchandising for Textile & Apparel Industry......................... 3
Textile and Apparel Design and TCD/Journalism & Mass Media choose:
TXCD 140A Visual Literacy Lab: Analysis & Presentation (2 cr) and 140B Visual Literacy Lab: Perceptual Drawing (2 cr)......................... 4
M merchandising Textile Science choose:
TXCD 412 Product Development II: Fashion
TXCD 416 Surface Design on Textiles.............. 3
TXCD 413 Socio-Psychological Aspects [I]........ 3

Free Electives.................................................. 0-27

Textile & Apparel Design (12 hrs)
M merchandising (7 hrs)
Textile Science (3 hrs)
TCD/Journalism & Mass Media (9 hrs)
All TCD/Journalism & Mass Media (9 hrs)

Total hours required for degree.................. 120-129

Please select one of the following specializations:

1. Textile and Apparel Design

The textile and apparel design option emphasizes basic design and textiles with an understanding of fashion theory, textile and apparel construction, computer-aided design, and basic skills techniques and creativity in production of textiles and apparel. Professional support is provided in both markets and consumer interest in textile and apparel design, fashion illustration, visual merchandising, product development, and fiber arts.

Textiles and Apparel Design Specialization

(See following pages for details)

Textile & Apparel Design (12 hrs)
M merchandising (7 hrs)
Textile Science (3 hrs)
TCD/Journalism & Mass Media (9 hrs)
All TCD/Journalism & Mass Media (9 hrs)

Total hours required for degree 120-129
Department of Textiles, Clothing and Design / College of Education and Human Sciences

Free Electives ........................................... 1-4

a minor in marketing from the UNL

textiles, textile production, and issues concerning

3. Textile Science

• TXCD 413 Merchandising III
• TXCD 428 Coloration
• TXCD 499 Undergraduate Research

Merchandising Specialization (Years 3 & 4) ........................... 18
• TXCD 312 Product Development I
• TXCD 312 Product Development II
• TXCD 412 Product Development III

2. Merchandising

The merchandising option is planned for
those students interested in the buying and selling
of textile and apparel products at the manufactur-
ing and retail levels as well as product development,
promotion and visual merchandising. The program emphasizes textiles, basic
design, and provides understanding of fashion
theory, as well as basic skills and techniques in
production and distribution of textiles and apparel in the global society. Students receive
a minor in merchandising from the UNL

College of Business Administration.

Hours

Merchandising Specialization (Years 3 & 4) ........................... 18
• TXCD 312 Product Development I: Fashion
Analysis & Presentation
• TXCD 313 E Merchandising II: Merchandise
Buying & Control
• TXCD 314 Visual Merchandising
• TXCD 407 History of Costume
• TXCD 413 I Merchandising III: Merchandise
Development & Sourcing

Select 3 hrs from the following: ......................................... 3
• TXCD 140A, 140B (2 hrs each) 216, 225, 235
• TXCD 406, 428 (3 hrs each) 492, 498 (2-6 hrs)

Professional Supporting Courses ........................................ 27
• ACCT 201 Intro to Accounting
• MNGT 360 E[3] or 361
• MKT 346 E[2] or 347
• MKT 347 Marketing Communications Strategy
• MKT 425 Retailing Management
• STAT 218 or EDPS 459 or ECON 215

Select 2 hrs from the following: ......................................... 6
• MKT 345, 350, 428, 441, 442, 443 [E],
• 453 [E], 458 [I]

Free Electives ...................................................... 2-5

M merchandising majors must take the following classes in
sequence: ............................................................... 1
• TXCD 213 Merchandising I
• TXCD 313 Merchandising II
• TXCD 413 Merchandising III
• TXCD 212 Product Development I
• TXCD 312 Product Development II
• TXCD 412 Product Development III

3. Textile Science

The textile science option emphasizes textiles
and textile production, and issues concerning
the global textile industry. Professional support
in related coursework is required. The program is planned for students interested in
sales, research, or management in the textile
industry. It is also recommended for students
who plan to go on to graduate school in either
textile or related sciences. Students are eligible
to receive a minor in textile science from the
UNL College of Arts and Sciences.

Textile Science Specialization (Years 3 & 4) ........................... 15
• TXCD 406 Textile Testing & Evaluation
• TXCD 428 Coloration
• TXCD 499 Undergraduate Research

Select 6 hours from the following: ..................................... 6
• TXCD 140A, 216, 225, 313, 325, 407, 492, 498

Professional Supporting Courses ........................................ 22-25
• CHEM 110 or CHEM 111 [I]
• CHEM 211 or CHEM 212 [I]
• CHEM 251 or CHEM 261
• CHEM 252 or CHEM 262
• CHEM 253 or CHEM 263 Lab
• CHEM 254 or CHEM 264 Lab
• STAT 218 or EDPS 459 or ECON 215

Select 6 hrs from the following: ......................................... 6
• Accounting, business law, chemistry, computer
science, economics, entrepreneurship, finance,
mathematics, management, information systems,
technology, marketing, or photography.

Free Electives ...................................................... 7-13

Textile Science

The textile science option emphasizes textiles
and textile production, and issues concerning
the global textile industry. Professional support
in related coursework is required. The program is planned for students interested in
sales, research, or management in the textile
industry. It is also recommended for students
who plan to go on to graduate school in either
textile or related sciences. Students are eligible
to receive a minor in textile science from the
UNL College of Arts and Sciences.

Hours

Textiles, Clothing and Design and Journalism and Mass Communications Specialization .......................... 18
• TXCD 212
• TXCD 313
• TXCD 314
• TXCD 407

Select two courses from the following: ............................... 6
• TXCD 216, 225, 313, 325, 403, 406, 428

Select one of the following Journalism and Mass Communications Emphases: A or B

Advertising Emphases ............................................. 38
• ADVT 332 Principles & Promotional Writing
• ADVT 333 Communications Graphics
• ADVT 422 Strategic Communications
• ADVT 460 Media Planning & Strategy
• ADVT 489 Advertising & Public Relations

Journalism Emphases ............................................. 30
• JOUR 101 Principles of Mass Media
• JOUR 102 The Art of Writing
• JOUR 142 Visual & Aural Literacy
• JOUR 204 Information Gathering
• JOUR 486 Mass Media Law
• JOUR 487 Mass Media & Society

Broadcasting News Emphases ...................................... 41
• BRDC 369 Broadcast News Writing
• BRDC 370 Broadcast News Writing
• BRDC 372 Advanced Reporting

Courses of Instruction (TXCD)

Development of appreciation of beauty of form, color, and texture judgments in the fine arts of paintings pertaining to everyday living. Selecting, evaluating, and arranging many forms of art expression.

[ES][S] 123. Clothing and Human Behavior (3 cr) Lec 3
Analysis of social, economic, and environment on human behavior.

[ES][S] 123H. Honors Clothing and Human Behavior (3 cr) Lec 3. Prereq: Good standing in the University Honors Program or by invitation.

For course description, see TXCD 123.

140A. Visual Literacy Lab: Analysis and/or Composition (ARCH, ARTP, IDES, GEN 140A) 2 cr Lab Prepar:
ARTP: Art major or candidate for teaching endorsement in art. ARCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. GEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing and Design major or minor. For course description, see ARTP 140A.

140B. Visual Literacy Lab: Personal Drawing (ARCH, ARTP, IDES, GEN 140B) 2 cr Lab Prepar:
ARTP: Art major or candidate for teaching endorsement in art. ARCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. GEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing and Design major or minor. For course description, see ARTP 140B.

141A. Visual Literacy Lab: Color (ARCH, ARTP, IDES, JOUR 141A) 2 cr Lab Prepar:
ARTP: Art major or candidate for teaching endorsement in art. ARCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. JOUR: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing and Design major or minor. For course description, see ARTP 141A.

1. A 2.5 cumulative GPA is required for admission to this course.

Department of Textiles, Clothing and Design / College of Education and Human Sciences 283
141B. Visual Literacy Lab: Speculative Drawing (ARCH, ARTP, IDES, JGEN 143B) (2 cr) Lab, Prereq: ARTP 204 or MATH 200; Adj. to the College of Architecture. IDES: Admiration to the College of Architecture. JGEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing, and Design major. For course description, see ART 143B.

142. Visual and Aural Literacy (ARCH, ARTP, IDES, JGEN 142) (2 cr) Lab, Prereq: ARTP, TXCD major or candidate for teaching endorsement in art. ARCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. JGEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing, and Design major. For course description, see JOUR 142.

143. Visual Literacy: Art and Design (ARCH, ARTP, IDES, JGEN 143) (2 cr) Lab, Prereq: ARTP, ART major or candidate for teaching endorsement in art. ARCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. JGEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing, and Design major or minor. For course description, see JOUR 143.

206. Textiles (3 cr) Lec 2, Lab 2, Prereq: Sophomore standing. Fibers, yarn, fabric construction, and finishes as they affect use and care.


213. Merchandising I: Textile and Apparel Industry (3 cr) Lec 3. Textile and apparel industry processes, Social, cultural, and economic influences on the industry.

216. Apparel Design by Flat Pattern (3 cr II) Lec 6. Prereq: TXCD 212. Creative experience in apparel design through the use of flat pattern methods.


313. Merchandising II: Merchandise Buying and Control (3 cr) Lec 3. Prereq: 3 hrs MATH. Role and responsibilities of apparel and home furnishings merchandisers in a retail operation. Fundamentals of merchandising mathematics and the application to computer technology.

314. Visual Merchandising (3 cr II) Lec 3. Prereq: TXCD: ARCH, ARTP, IDES, JGEN, TXCD: 140A, 140B, 141A, and 143; or ARCH: 140D; or ARTP: 141D. M merchandising presentation designed to convey both image and merchandise to a target customer. The artistic and marketing functions of the retail environment.


399. Independent Study (1-5 cr) Readings in current literature and individual problems.


405. Advanced Textiles (3 cr) Lec 2, Lab 2. Prereq: TXCD 206; CHEM 105 or 109 or 115. Recent advances in the production and performance of fibers, yarns, finishes and dyes for textiles products. Lab experiences designed to familiarize the students with standards, methods and equipment for evaluating textile product performance.

406. Textile Testing and Evaluation (3 cr) Lec 1, Lab 2. Prereq: TXCD 206. TCD 406 is taught every other year. Check with advisor and/or department when planning course work.

407. History of Costume (3 cr) Lec. Prereq: Junior standing. A HIS 101 or 102 or 3 hrs HIS T: 100 or 101. Theoretical approach to the history of dress from ancient times through the twelfth century; examining dress in the context of social, economic, and artistic development of Western culture.

408. History of Textiles (3 cr) Lec 3. Prereq: Junior standing. TXCD: 206, A HIS 101 or 102 or 3 hrs HIS T: 100 or 101. Textiles in the context of artistic, social, political, and economic developments in the cultures of Europe, Asia, Africa and the Americas. Emphasis on evolution of textile design and stylistic differences between cultures.

410. Sociology of Consumer Behavior (3 cr) Lec 3. Prereq: Senior standing; 3 hrs social sciences or PSY, TXCD 123. Theories and research findings about the social and psychological aspects of clothing and appearance in relation to the self and others.


471. Experimental Apparel Design (3 cr) Lec 6. Prereq: TXCD: 216 or 225 and 312 or 416 or parallel TXCD: 472. Advanced work in the creation of apparel as visual communication. Design conceptualization with experimentation in media, structure, technique, and presentation.

472. Inventing the Crafted Fabric (3 cr) Lec 6. Prereq: TXCD: 216 and 225; parallel TXCD: 471 or 475; recommended. TXCD 472 requires a public presentation of work. A Advance work in creation of textiles. Design conceptualization, design development, and experimentation in media, structure, and presentation.

480. Workshop/Seminar (1-3 cr) Lec 5. Prereq: Permission. Presented by department faculty and visiting artists, scholars and scientists. Opportunity to analyze and develop techniques, develop skills or study topics of special interest.

A. Textile Design (1-3 cr)
B. Clothing (1-3 cr)
D. Design (1-3 cr)

482. Professional Study Tour-International or Domestic (1-6 cr) Lec 6; max 10. Prereq: 12 hrs in textiles, clothing and design and permission. N number of credits determined by the time spent, assignment, and sites visited. The textile and apparel industry visits to museums, showrooms, manufacturers, retail establishments in major domestic and foreign markets such as Chicago, Dallas, New York, Ciy, Paris, London, and Rome.

486. Creative Experience in Apparel Design through the use of Flat Pattern (3 cr) Lec 2, Lab 2. Prereq: TXCD: 206. TCD 406 is taught every other year. Check with advisor and/or department when planning course work.

501. Internship (2-6 cr) Prereq: Permission and 79 hrs completed toward degree; M merchandising option: TXCD 313. Pass F or Pass only. Supervised individual professional experience with a qualified cooperative practicing professional. Students required to apply for the experience with the department and with the employer.

599. Undergraduate Research (1-6 cr) Lec 1, 2, Prereq: Senior standing in Textiles, Clothing and Design (3 cr per semester, max 10) Prereq: 12 hrs in textiles, clothing and design and permission.

681. Textiles, Clothing, and Design Problems (1-6 cr) per semester, max 12. Prereq: 12 hrs in textiles, clothing and design and permission.

*811. Textiles, Clothing, and Design Problems (1-6 cr) per semester, max 12. Prereq: 12 hrs in textiles, clothing and design and permission.


*818. History of Quilts (3 cr) Prereq: Permission.

823. Advanced Design in Mixed Media (3 cr, max 6) Studio 6. Prereq: TXCD: 212, 216, 312, and 803 or 816L.

*824. Rendering and Production of Textiles and/or Apparel (3 cr, max 6) Studio. Prereq: Permission.


*870. Current Issues in Textiles, Clothing, and Design (3 cr per semester, max 9) Prereq: 9 hrs in textiles, clothing and design and permission.

*873. Design Perspectives and Issues (3 cr)


*875. Research Methods (3 cr) Lec. 3.

*899. Masters Thesis (6-10 cr) O pen only to graduate students.

Refer to the Graduate Bulletin for 900-level courses.
College of Engineering

David H. Allen, Ph.D., P.E., Dean and Professor of Engineering Mechanics
Stephanie G. Adams, Ph.D., Associate Dean for Undergraduate Education and Associate Professor of Industrial and Management Systems Engineering
Namas Chandra, Ph.D., Associate Dean for Research and Professor of Engineering Mechanics
Raymond K. Moore, Ph.D., P.E., Associate Dean and Professor of Civil Engineering
Lance C. Perez, Ph.D., Associate Dean for Academic Affairs and Graduate Education and Associate Professor of Electrical Engineering

About the College

Administrative Structure

The Dean’s offices, 114 Othmer Hall in Lincoln and 101 Peter Kiewit Institute Building in Omaha, are concerned with the general operation and direction of the College. To help students, these offices are open every working day.

The College of Engineering is subdivided into units, each under the leadership of a chairperson, department head, or director. Individual help is available for students in each unit office. Advisors assigned to students are located in the departments. A description of the programs and facilities in each department is included in subsequent sections.

Role and Mission

The College of Engineering enthusiastically embraces its unique role as the singular intellectual and cultural resource for engineering and technology instruction, research, and outreach within the state. The College of Engineering provides the people of Nebraska with comprehensive engineering and technology academic programs to fulfill their highest aspirations and ambitions.

The missions of the College of Engineering at the University of Nebraska–Lincoln are:

- to deliver relevant and challenging educational programs that attract an outstanding student body, that prepare graduates for rewarding careers in their chosen professions, and that encourage graduates to extend their level of knowledge through lifelong learning;
- to conduct leading edge research that advances engineering science and technology, and to stimulate the intellectual development and creativity of both students and faculty; and,
- to extend exemplary engineering and technology service and to transfer knowledge that contributes to the well-being and betterment of society.

Engineering

To meet the need for innovative engineers, the College’s programs offer broad education in the physical sciences, social sciences, mathematics, information sciences, and humanities. This education is complemented by study of engineering methods of modeling, analysis, synthesis, and design in students’ areas of specialization. In addition to preparing students for careers in engineering, the College’s bachelor’s degree programs provide excellent preparation for graduate study in those fields.

Construction Management

The profession of construction management is allied with architecture, engineering, and business administration. Construction managers coordinate people, machines, and materials to produce (within the constraints of budget and time) buildings, highways, bridges, dams, and other structures essential to modern society. The College’s construction management program provides a solid technical background, develops business knowledge, and considers ethical issues of the profession.

Professional Licensure

The College encourages professional licensure. The majority of the College’s engineering seniors take the Fundamentals of Engineering (FE) examination prior to graduation. This examination is the first step in the process of becoming a licensed professional engineer. To become a licensed professional engineer, one must pass the FE exam, have four years of experience, and pass a professional practice examination. Students may take the FE exam in the last semester of their baccalaureate program. Arrangements are made through:

Nebraska Board of Engineers and Architects
301 Centennial Mall South
Lincoln, Nebraska 68508

Degree Programs

Undergraduate Programs on the Lincoln Campus

Engineering. The College offers bachelor of science degree programs in each of the following engineering fields: agricultural engineering, architectural engineering, biological systems
engineering, chemical engineering, civil engineering, computer engineering, construction engineering, electrical engineering, electronics engineering, industrial engineering, and mechanical engineering. Over 85 percent of all the engineering degrees granted in the United States, during the last five years, were granted in these fields. Students with interests in specialty fields such as aerospace, environmental, or biomedical engineering should seek advice in the Office of the Dean on how to incorporate such emphases into the above degree programs.

**Construction Management**

The College offers the bachelor of science degree program in construction management, a program accredited by the American Council for Construction Education.

**Interdisciplinary**

The College offers an interdisciplinary bachelor of science degree program that combines course work from one or more engineering fields with course work in other disciplines such as premedicine, prelaw, pre dentistry, business, and physics.

**Double Majors**

Students can major in two departments in the college by completing all the requirements for the departments major. Students should consult their advisers about this possibility. The student who majors in more than one department will be assigned to an adviser in each department.

**Undergraduate Programs on the Omaha Campus**

**Construction Management**

The College will begin offering a bachelor of science program in construction management in the 2007-08 academic year.

**Engineering**

The College offers bachelor of science degree programs in architectural engineering, civil engineering, computer engineering, construction engineering, and electronics engineering on the Omaha campus. First- and second-year course work is also offered on the Omaha campus in most other engineering fields through the College's pre-engineering program.

**Fire Protection Technology**

An associate degree in fire protection technology is offered through the UNL Extended Education and Outreach. The College of Engineering grants an ASET degree.

**Accreditation**

The undergraduate engineering programs of the College of Engineering in Lincoln and Omaha are accredited by the Accreditation Board for Engineering and Technology (ABET). The agricultural engineering, biological systems engineering, chemical engineering, civil engineering (Lincoln and Omaha campuses), computer engineering (Lincoln and Omaha campuses), electrical engineering, electronics engineering, industrial engineering, and mechanical engineering programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Maret Place, Suite 1050, Baltimore, MD 21202-4012.

The master of architectural engineering is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 1300 Hudsom Lane, Suite #3, Montrose, LA, 71201. The master of undergraduate degree program in construction engineering is not accredited. ABET accreditation will be pursued at the earliest opportunity.

**Graduate Programs**

Courses supporting several engineering graduate programs are offered both on and off campus. For details on programs leading to the master's and doctorate degrees, see the University of Nebraska-Lincoln Graduate Studies Bulletin and contact the appropriate department or the Office of the Dean of the College of Engineering.

Seniors in this University who have obtained prior approval of the Dean of Graduate Studies may receive up to 12 hours credit for graduate courses taken in addition to their required undergraduate work. However, these credits must be earned within the calendar year prior to receipt of the bachelor's degree. (For procedures inquire at the University Graduate Studies Office, 111 Maret Place, Suite #3, Montrose, LA, 71201.) The Master of Civil Engineering degree program is available on the Omaha campus only.

The master of architectural engineering degree program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Maret Place, Suite 105, Baltimore, MD, 21202-4012.

Doctoral fields are available in agricultural and biological systems engineering, chemical and materials engineering, civil engineering, electrical engineering, engineering mechanics, industrial management systems and manufacturing engineering, mechanical engineering, computer engineering, biomedical engineering, architectural engineering, and environmental engineering.

**Scholarships and Financial Aid**

Each year the College awards scholarships to freshmen and upperclassmen worth more than $750,000. Scholarship awards are made possible through generous gifts of alumni and friends and through funding of the Nebraska Legislature. Application for UNL freshman scholarships automatically makes you eligible for College of Engineering scholarships as well as other university awards such as the Regents and David Scholarships. You must submit the UNL Application form (due January 15, prior to the beginning of the next academic year) to be eligible for College of Engineering scholarships.

A significant number of engineering and technology students have academic records that qualify them for university-wide scholarship awards. Each year about 25 percent of the freshman Regent Scholarship recipients are engineering and technology students. Inquiry about these awards should be made at the Office of Scholarships and Financial Aid, 12 Canfield Administration Building.

A large number of scholarships are provided through local and national organizations and private donors for engineering and technology students. The student's major level or higher. Contact the Office of the Dean or the Office of Scholarships and Financial Aid for information regarding these awards.

A significant number of engineering and technology students are able to find part-time employment in fields related to their interests. Other financial help is also available through the Office of Scholarships and Financial Aid.

**Student Organizations in the College**

**Technical Societies**

The purpose of the technical student societies is to develop in students a greater personal and professional interest and understanding of the various branches of engineering, engineering technology, computer science, and construction management. Associated with the various departments in the College are student chapters of the major national technical and scientific societies.

**Lincoln Campus**

American Institute of Chemical Engineers, The Society for Engineering in Agricultural, Food, and Biological Systems; American Society of Civil Engineers, American Society of Mechanical Engineers, American Society of Electrical Engineers, Associated General Contractors Association for Computer Machinery, Institute of Electrical and Electronic Engineers, and Institute of Industrial Engineers.

**Omaha Campus**

American Society of Civil Engineers, American Society of Heating, Refrigeration and Air-conditioning Engineers, Associated General Contractors Association for Computer Machinery, Institute of Electrical and Electronic Engineers, and Instrumentation Society of America.

**Other technical and nontechnical organizations of interest to engineering students**

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**Omaha Campus**

American Society of Civil Engineers, American Society of Heating, Refrigeration and Air-conditioning Engineers, Associated General Contractors Association for Computer Machinery, Institute of Electrical and Electronic Engineers, and Instrumentation Society of America.
Pi Mu Epsilon (Industrial engineering), Chi Epsilon (Civil engineering, both campuses), Tau Kappa Epsilon (Mechanical engineering), Sigma Lambda Chi (Construction management), Sigma Xi (Scientific, all colleges), Tau Alpha Pi (Engineering technology, Omaha campus), and Tau Beta Pi (all engineering).

**Grade Appeals**

In the event of a dispute involving any college policies or grades, the student should appeal to his/her instructor, advisor, and department chair (in that order). If a satisfactory solution is not achieved, the student may appeal his/her case through the College Academic Appeals Committee on his/her campus.

**Application for the Diploma**

Each student who expects to receive a diploma must first apply for candidacy at the Office of Registration and Records, 107 Canfield Administration Building. Announcements about deadline dates are posted on bulletin boards and printed in the Daily Nebraskan.

It is the responsibility of the student to inform the Office of Registration and Records of graduation plans including address, the manner in which requirements are being completed (i.e., by correspondence, by clearances of incompletes, by enrollment at another institution, by taking special examinations, etc.), and any subsequent revision of such plans.

Failure to meet these stipulations may necessitate postponement of graduation until the next semester or summer.

**Graduation with Distinction**

Students with outstanding scholastic records may obtain the special honor of graduation with D in their name. W is high D in their name, and G is high D in their name upon the recommendation of the faculty of the College. Check with your major department for specific requirements of each degree.

**Student Publications**

The Blueprint is a student magazine published on the Lincoln campus and distributed to all campuses. A weekly Blueprint is also distributed to all campuses.

**Career-Related Experience**

The University of Nebraska-Lincoln College of Engineering Cooperative Education Program (Co-op) provides paid academic and professional experience for students who meet academic standards and who demonstrate qualities of leadership and the ability to work with others. The program augments classroom experience and integrates them with engineering practice. Students have pre-determined periods of attendance at the University and specific periods of employment. The program takes its name from the close cooperation between the academic institution and the co-op employers, ensuring that the work experience will contribute significantly to the student’s overall growth and professional development. Concurrently, the participating company or agency receives numerous benefits through contact with the college and from creative and enthusiastic students.

The Engineering Internship Experience is a program instituted by the College, designed to connect employers with engineering and construction management students in paid full-time summer positions.

Students are required to participate in C-Operative Education or Internship Experience, but will be encouraged to gain career-related experience at the undergraduate level. The experience opportunities include part-time internships and/or on-campus research with a professor.

Students seeking undergraduate employment are encouraged to attend career workshops and to attend career fairs including the annual Engineering and Technology Career Fairs in October and February. Of these, a career fair is an opportunity for employment, but also an opportunity for students and employers to "just explore".

**Engineering Research Centers**

The Centers are staffed by faculty and research assistants of the academic departments. The laboratory facilities of the departments are also utilized to support the research activity of the Centers. The Centers actively seek government and industrial support in the form of grants and contracts for their research activities. The research conducted within the Centers provides an important service to both government and industry. And, it is an important component of the college’s graduate programs.

**Center for Communication and Information Science**

The Center for Communication and Information Science is researching computers and communication systems. Among the many Center projects, researchers are developing the ability to access, transmit and share information while protecting the information from unauthorized use. A network coding and cryptography, data compression, and the pattern recognition of the center’s specialties.

The Center is one of seven Engineering Research Centers within the College of Engineering and is funded by the Nebraska Research Initiative.

**Center for Electro-Optics**

The Center for Electro-Optics, one of the Engineering Research Centers under the Nebraska Research Initiative, is researching small particle technology as well as the linear and nonlinear interactions between matter and electromagnetic radiation, lasers at optical and microwave frequencies. Center researchers are also studying electromagnetic radiation interactions with rough surfaces, irregularly layered media, and the application of the research to the use of lasers for taking remote measurements.

**Center for Laser-Analytical Studies of Trace Gas Dynamics**

The Center for Laser-Analytical Studies of Trace Gas Dynamics, one of the seven Engineering Research Centers, is funded by the Nebraska Research Initiative. Researchers are developing tunable laser spectroscopy capabilities and studying the dynamics of trace gases, such as methane and nitrous oxide in the atmosphere. The researchers are also developing methods for collecting reliable data about the greenhouse effect, climate change, and the earth’s environment.

**Center for Microelectronic and Optical Materials Research**

The Center for Microelectronic and Optical Materials Research is an Engineering Research Center in the College of Engineering under the Nebraska Research Initiative. Researchers conduct research in the areas of vapor-deposited diamond films, advanced compound semiconductors, magnetic and protective coating materials, thin film high-temperature superconductors, and materials for magneto-optic recording. Center researchers are also studying ellipsometry, a nondestructive method of measuring to determine the properties of electronic and optical materials, and carbon coatings for infrared lenses that can capture light by not letting it reflect back.

**Center for Nontraditional Manufacturing Research**

Researchers with the Center for Nontraditional Manufacturing Research are developing state-of-the-art machining processes for new materials such as ceramics, superalloys, and composites. The processes studied by Center researchers include abrasive jet machining, electrodischarge machining, and electrochemical arc machining. These scientists are also researching adaptive control and expert systems for machining processes and surface integrity.

**Center for Nontraditional Manufacturing Research**

The Center for Nontraditional Manufacturing Research is one of seven Engineering Research Centers funded by the Nebraska Research Initiative.

**Mid-America Transportation Center**

The Center conducts research and educational activities aimed at improving the design and operation of transportation facilities to maximize safety, mobility, and efficiency and minimize the negative environmental effects of transportation in Mid-America. Its research agenda focuses on traffic operations and control, highway safety, intelligent transportation systems, and work zone traffic control and safety.

**Midwest Roadside Safety Facility**

The Midwest Roadside Safety Facility conducts research in all aspects of highway design and safety. Researchers use high-speed data acquisition equipment and photography for...
testing and product development of guardrail and median barriers, timber, open concrete and steel bridge railings, impact attenuators, light poles and curbs. The facility, one of only a few in the United States, serves as a research and development facility for state highway departments, the Federal Highway Administration, the U.S. Department of Agriculture Forestry Service and private industry.

Continuing Engineering Education

In cooperation with the Extended Education and Outreach and Conferences and Institutes, the College provides continuing education to practicing engineers and technologists through short courses, workshops, conferences, and other educational programs. The College delivers continuing education courses leading to a master of engineering degree with a concentration in engineering management. These courses are delivered online. For more details see http://extended.unl.edu/mengmt.

Admission to the College

These policies are subject to change. Students should consult their adviser, their department chair, or the Office of the Dean if they have questions on current policies.

College Entrance Requirements

Students wishing to be admitted to the College of Engineering must have high school credit for (one unit is equal to one high school year):

1. 4 units of mathematics: 2 of algebra, 1 of geometry, 1 of precalculus and trigonometry.
2. 4 units of English.
3. 3 units of natural science that must include 1 unit of physics and 1 unit of chemistry (chemistry requirement waived for students in construction management).
4. 2 units of a single foreign language.
5. 3 units of social studies.
6. 6 units of actuarial science (or equivalent SAT score) will be admitted to the College of Engineering even if they lack any one of the following: trigonometry, chemistry or physics.
7. Students having a composite ACT score of 19 or less (or equivalent SAT score) must take ENGL 150 or 151.

A total of 16 units is required for admission. Entering students from high school must also have an ACT (enhanced) score of 24 or greater (or equivalent SAT). Students who lack college entrance requirements may be admitted to the College of Engineering if they meet one of the following: (a) all high school deficiencies have been satisfied; (b) a cumulative GPA for a total of at least 12 credit hours and most recent semester GPA at the University of Nebraska is at least 2.5. Reclassification is accomplished when the student completes a "Change of Major/Change of College Form" and has it signed by the Office of the Dean. The form is available in all departmental offices, the Office of the Dean, and in the Canfield Administration Building.

Transfer Issues

Students who transfer to the University of Nebraska-Lincoln from other colleges or universities must meet the following requirements and have a minimum cumulative grade point average of 2.5 for Nebraska residents. Nonresidents must have a minimum cumulative grade point average of 3.0 unless they are transferring from an accredited engineering program, in which case a 2.5 grade point average is acceptable. Students who do not meet these requirements must enroll in another college at the University of Nebraska and achieve a minimum 2.5 cumulative grade point average in the first 12 hours or more of course work taken at UNL. They may then be considered for admission to the College of Engineering.

The College of Engineering does not accept courses for transfer in which a D grade was received. However, grades of D from the University of Nebraska at Kearney, Lincoln, or Omaha may be transferred to fulfill requirements. However, students are strongly encouraged to repeat those courses. All transfer students must adopt the curricular requirements of the undergraduate bulletin current at the time of transfer—not that in use when they entered UNL.

After being admitted to the University of Nebraska, Nebraska students wishing to pursue degree programs in the College of Engineering will be classified as described below.

College Academic Policies

Student Classification

Students interested in the study of engineering, and construction management will be classified or reclassified as follows.

Students Who Have Been Admitted to the College of Engineering

1. Pre-Engineering and Pre-Construction Management Students. New students are accepted into the College of Engineering on a provisional basis for the purpose of establishing their academic credentials and firming up their career objectives. These students may take freshman and sophomore-level courses in the College of Engineering.

Admitted students will be initially classified as pre-engineering, and pre-construction management students when their cumulative GPA for a total of at least 12 credit hours and most recent semester or term GPA at the University of Nebraska is at least 2.5. Students may be reclassified to restricted status if their cumulative GPA falls below 2.4.

2. Regular Engineering Students. Students who have completed 43 credit hours that are applicable to the engineering degree they seek in the College of Engineering may apply for formal admission to that degree program. Those whose credit hours applicable to the degree they seek exceed 61 must receive formal admission to an engineering degree program if they are to continue to take engineering courses taught in the College of Engineering and/or be identified with the College. Transfer students must have at least 12 credit hours of course work from the University of Nebraska on record before an application will be considered.

Students in the College of Engineering may make application to an engineering degree program during the first four weeks of the fall or spring semester. The application must be submitted with a complete record of course work. Students may select a first and second choice of a degree program on a single application and may submit no more than two applications and only in successive semesters. Applications will be judged on a competitive academic performance basis. Students should contact the department of their choice to determine if there are specific requirements.

Admission of non-Nebraska residents may be limited to ten percent of the total.

Regular engineering students may be reclassified to a restricted status if their accumulative GPA falls below 2.4. Students may not graduate with a degree in engineering or technology while in the restricted category.

3. Regular Construction Management Students. Pre-construction management students must apply and be admitted to the construction management degree program after completing 30 credit hours of required course work. Students failing to be admitted to the construction management degree program prior to earning 65 credit hours may be dropped as construction management degree candidates.

Regular construction management students who fail to maintain a minimum cumulative GPA of 2.4 may be reclassified as restricted students.

Students Who Have Not Been Admitted to the College of Engineering

Students who have not been admitted to the College of Engineering are classified as "restricted" and thus are limited in the choice of College of Engineering courses open to them.

1. Students who have not completed admission to UNL or UNO by the end of the week prior to general registration will be classified as restricted.

2. Students may request reclassification from the restricted status to pre-engineering status when:
   a. All high school deficiencies have been satisfied.
   b. A cumulative GPA for a total of at least 12 credit hours and most recent semester or term GPA at the University of Nebraska is at least 2.5. Reclassification is accomplished when the student completes a "Change of Major/Change of College Form" and has it signed by the Office of the Dean. The form is available in all departmental offices, the Office of the Dean, and in the Canfield Administration Building.

Restricted Students

These students are those in the Division of General Studies or other colleges or are those who have failed to maintain the academic standards or general policies of the College of Engineering. Restricted students are substantially limited in the choice of courses that may be taken in the College.
General College Policies

General. These policies are applicable to all students in the College of Engineering:

1. Student priority for entrance into classes for which demand exceeds available class space will be based on accumulative GPA. This priority will be applied at the end of early registration (when applicable).

2. Students may repeat a maximum of three engineering and technology courses. Students may take any one engineering and technology course a maximum of two times.

3. At least 30 of the last 36 credit hours needed for a degree must be registered for and completed at UNL or UNO while identified with the College of Engineering. This means that, practically speaking, the last year of a student's work must be spent in residence. Credit earned during study abroad may be used toward degree requirements if students participate in prior approved programs and register through UNL (see "Study Abroad and Exchange Programs" on page 21).

4. Pass No Pass courses. Students in the College of Engineering must take ENGR 010, 020 and 400 with the grading option Pass No Pass. In addition, students may take up to 12 credit hours of courses in the humanities and social sciences on a Pass/No Pass basis. Students in the College of Engineering may not take any other required courses or technical elective courses with the grading option of Pass/No Pass.

5. Credits for "English for Foreign Students who are Non-native Speakers" at UNL and "English as a Second Language" at UNO are not applicable to degree programs in the College of Engineering.

6. Six hours of English composition may be substituted for the written communications requirement in all degree programs.

7. Students who enroll at UNL, UNO, or UK under the academic year (Fall, Spring, Summer) of this bulletin must fulfill the requirements stated in this UNL bulletin or in any other UNL bulletin which is published while they are enrolled at the College, provided that the bulletin is no more than ten (10) years old at the time of graduation. A student must, however, meet the graduation requirements from one bulletin only. A student may not choose a portion from one bulletin and the remainder from another bulletin.

Undergraduate Seminars. All freshmen engineering and technology students are required to attend ENGR 010, Freshman Engineering Seminar, a zero credit course. This seminar is designed to provide students with a variety of information useful throughout their attendance in the UNL College of Engineering. Sophomore engineering and technology students are required to attend ENGR 020, Sophomore Engineering Seminar, a zero credit course. The Sophomore Engineering Seminar provides information on career planning, interviewing, resume preparation and coop/internship opportunities.

Design Requirement. All engineering majors require a minimum of 48 credit hours of engineering topics (engineering topics include subjects in the engineering sciences or engineering design). Engineering design is the process of devising a system, component or process to meet desired needs. Engineering design work may be done by individuals; however, team efforts are encouraged where appropriate. Engineering majors are provided an integrated engineering design experience throughout the curriculum. In addition, all engineering programs include a meaningful major design experience that builds upon the fundamental concepts of mathematics, basic sciences, humanities, social sciences, engineering topics, and communication skills.

Graduation Requirements

For university policy, see “Graduation Requirements” on page 16.

Comprehensive Education

Essential Studies [ES]

Subject Area

Each student will take a total of nine courses in essential areas of learning: communication, the social and behavioral sciences/mathematics, natural science, history, the humanities, the arts and human diversity. This requirement represents the minimum experience for an undergraduate student in the full range of university offerings. Thus no ES course can simultaneously fulfill the requirement for two areas. See the following Humanities and Social Sciences Electives section.

Integrative Studies [IS]

Way of Teaching

Each student will take nine courses which have been reviewed and designated as Integrative Studies courses. These are standard university offerings. Thus no ES course can simultaneously fulfill the requirement for two areas. The opportunities at UNL to engage in art, music, theater, dance, photography, and presentations on campus and in the larger community are diverse and fulfilling.

Co-Curricular Experience

The opportunities at UNL to engage in artistic, cultural, political, career, international, religious, and leadership activities form a vital portion of any student’s education. Thus the Comprehensive Education Program, through the Student Affairs office and academic advisers, will formally encourage all undergraduates to involve themselves in the full range of activities and presentations on campus and in the larger community.

Please refer to the following section for listing of courses.

Humanities and Social Sciences Electives

Engineering and construction management majors who graduate on the Lincoln campus are required to complete a program of 18 credit hours (6 courses) in the social sciences and humanities.

- At least five courses must be chosen from four of the AREAS C, E, F, G, H listed below (minimum of 15 credits).
- No more than one course (maximum of 3 credits) may be chosen from AREAS I with the approval of an academic adviser and the associate dean.
- At least two courses must be taken from a single department.

Course work in humanities and social sciences helps to fulfill the Comprehensive Education requirement in Essential Studies.

NOTE: Courses in bold indicate an Integrative Studies course.

AREA C: Human Behavior, Culture and Social Organizations

AECN – 141 (credit may not be received for both AECN 212 and AECN 141), 265, 276, 346, 376

AGRI – 292

ALEC – 189H, 202, 302

ANTH – 107, 110, 130, 170, 189H, 212, 252, 261, 351, 352, 353, 362, 366

BIOG – 203

CLAS – 252

COMM – 189H, 200, 210, 211, 280, 283, 300, 354, 370, 371, 375, 380

ECON – 210, 211, 212 (credit may not be received for both ECON 212 and AECN 141)

EDPS – 189H, 209

ENGL – 252, 322

ETHN – 189H, 200, 211, 212, 217, 238, 239, 310, 330, 351, 352, 362, 448


HIST – 343, 344, 346

JDFP – 182H, 301H

JOUR – 485, 486, 487

JGEN – 123

MNGT – 189H, 360, 364H, 465

PHIL – 216
Approved Minors

Agricultural Economics: See "Agricultural Economics Minor" on page 52.


Agriculture and Natural Resources: See "International Agriculture and Natural Resources Minor" on page 48.

Agronomy: See "Agronomy Minor" on page 60.

Animal Science: See "Animal Science Minor" on page 64.

Art History: See "Art History Minor" on page 139.

Aviation (Omaha campus): Contact Aviation Institute at UNO for more details at 402/554-3424.

Biochemistry: See "Requirements for the Minor in Biochemistry" on page 139.

Biological Sciences: See "Requirements for the Minor in Biological Sciences" on page 140.

Biomedical Engineering Minor: 24 hr

Required Core Courses

BIO S 101, 101L or BIO S 102

BIO S 213 or 213L

PHYS 140

BSEN 317

Electives

(6 hrs in courses outside your major)

Track: Tissue-Engineering

CHM 473

Biomechanics

Mech E 436

IM SE 415

IM SE 416

Musical Imaging

BSEN 311

And Biomedical

BSEN 414

Signal Processing

ELEC 304

Business Minor for JD Edwards: Plan A only.

The minor detailed below is applicable only to students participating in the JD Edwards Honors Program. All courses must be taken for a letter grade.

Required Foundation Courses

MATH 106, 107 or 208

STAT 218 or 308 or IMSE 321

JDEP 181H

JDEP 281H
**Required Business Core Courses** ........................................... 12
MAK 341 .......................................................... 3
J DEP 241H .......................................................... 3
J DEP 381H .......................................................... 3
J DEP 382H .......................................................... 3
Total hours for the JDEP/BSAD minor .................................. 28-29

**Geography:** See "Requirements for the M inor in Geography" on page 149. **NOTE:** Engineering and technology students may not use internship credit to satisfy this minor.

**Construction Management:** Plan A only. All courses must be taken for a letter grade.

**Required Courses** ............................................................... 27
BLAW 372 Business Law I ........................................... 3
CNST 112 Construction Communications .................. 3
CNST 231 Construction Equipment & Methods I .......... 3
CNST 305 Physical Environmental Systems I .............. 3
CNST 378 Construction Estimating II .......................... 3
CNST 379 Construction Estimating I .......................... 3
CNST 480 Productivity & Human Factors .................... 3
CNST 485 Construction Project Scheduling & Control ... 3
M N G 360 Managing Behavior in Organizations .......... 3

**Economics:** See "Requirements for the M inor in Economics" on page 156.

**Engineering Mechanics:** Plan A – 12 credit hours beyond the regular undergraduate engineering mechanics sequence (ENGM 223, 325, 373 or ENGM 250, 350). These may be chosen from 300- and 400-level courses offered by engineering mechanics, excluding those courses required in the student's curriculum by the major department.

**English:** See "Requirements for the M inor in English" on page 159.

**Ethnic Studies:** See "Requirements for the M inor in Ethnic Studies" on page 166.

**European Studies:** See "Requirements for the M inor in European Studies" on page 169.

**General Business:** Plan A only. All courses must be taken for a letter grade.

**Required Foundation Courses** ......................................... 21-26
ACCT 201 and 202 or 306 ........................................... 4-6
ECON 211 .......................................................... 3
IM 321 or MET 103 or 104 or 105 or 106 .......................... 3
IM 321 or STAT 380 or ECON 215 or STAT 315 ............ 3
ELEC 305 .......................................................... 3
MATH 106 .......................................................... 5
MATH 107 .......................................................... 5
MATH 208 .......................................................... 5
MATH 106H ..................................................... 3
MATH 208H ..................................................... 3
MATH 106-107-208, or 106H-208H) and credit hours beyond the calculus sequence (MATH 106-107-208, or 106H-208H) and credit hours beyond the calculus sequence

**History:** See "Requirements for the M inor in History" on page 175.

**International Agriculture and Natural Resources:** See "International Agriculture and Natural Resources" on page 48.

**Japanese:** See "Requirements for the M inor in Japanese" on page 180.

**Mathematics and Statistics:** Plan A only. 12 credit hours beyond the calculus sequence (MATH 106-107-208, or 106H-208H) and differential equations (MATH 221 or 222H). These courses may be chosen from the 300- or 400-level course offered by mathematics and statistics except MATH 350, 450 and 460.

**Meteorology-Climatology:** See "Requirements for the M inor in Meteorology-Climatology" on page 172.

**Modern Languages:** Only for engineering and technology students.

**Czech:** There is no Plan A minor. Plan B – 6 hours at the 300 level.

**French, German and Russian:** Plan A – 12 hours at the 203 level and above, including 6 hours at the 300 level. Plan B – 6 hours at the 203 level and above, including 204.

**Spanish:** Plan A – 12 hours numbered at 303 or above. Plan B – 6 hours from 303 or above.

**Music:** See "Requirements for the M inor in Music" on page 197.

**Philosophy:** See "Requirements for the M inor in Philosophy" on page 195.

**Physics:** See "Requirements for the M inor in Physics" on page 197.

**Political Science:** See "Requirements for the M inor in Political Science" on page 200.

**Psychology:** See "Requirements for the M inor in Psychology" on page 202.

**Sociology:** See "Requirements for the M inor in Sociology" on page 205.

**Water Science:** See "Water Science Minor" on page 98.

**Women's and Gender Studies:** See "Requirements for the M inor in Women's and Gender Studies" on page 208.

**Lifelong Learning**

The education of professionals in construction management, engineering, and engineering technology is a continuing process. The groundwork in both technical and nontechnical studies is laid while in college, but education does not stop on the day of graduation. For a professional, education will continue not only in the technical areas but in areas that relate to human and social concerns. A professional may expect to take a leadership role in the community and must have a broad awareness of human and social accomplishments, values, and a willingness to accept responsibility for meeting these needs. For these reasons, an integrated program of course work in the humanities and social sciences is a part of the educational requirements.

**Interdisciplinary Bachelor of Science Degree**

Our technological society has a variety of problems concerned with more than a single traditional discipline. This flexible program may combine a basic engineering program with any of the following.

**Physics:** This program allows the student to combine an in-depth study of physics with studies in one or more of the engineering disciplines. Such a program is frequently labeled an "engineering physics" program at other institutions.

**Chemistry:** The program provides an educational foundation for a variety of careers in applied science or research and development, or for graduate studies.

**Pre-medicine:** Successful completion of this program helps a student meet the basic requirements for admission to a medical college and establish a basic engineering background. The medical profession needs the help of engineers in designing the instrumentation and tools for diagnosis and treatment, prosthesis devices, and health care systems.

**Pre-law:** The basic requirements for admission to a law college may be met through successful completion of this program. An engineering background is especially valuable to practitioners in patent law, in contracts and specifications, and in the litigation of technical problems.

**Pre-dentistry:** A student who successfully completes this program is prepared to meet the basic requirements for admission to a dental college and also establish an engineering background that relates to the instrumentation and tools of dentistry, properties of dental materials, and orthodontic practice.

**Interdisciplinary:** There are many other interdisciplinary possibilities in which engineering can be blended with a study of other disciplines, such as biological sciences, environmental systems, food processing, community planning, and water, air, and land resources. In every case the student will need to carefully plan the program with assistance from the faculty.

**LINCOLN CAMPUSES**

**Department of Biological Systems Engineering**

**Head:** Professor Ronald E. Yoder

**Professors:** Dickey, Edwards, Eisenhauer, Hanna, Hoy, Jones, Martin, Meyer, Schinostock, Schultz, Shelton, Smith, Vanderholm, Weller, Yang

**Associate Professors:** Dvorak, Franti, Hay, Kocher, Koelsch, Kranz, Woldt, Yonts

**Assistant Professors:** Adamchuk, Bashford, Irnak, Istanbuloglu, Stowell, Subbiah

Two engineering majors are offered in the Department of Biological Systems Engineering. They are Biological systems engineering and agricultural engineering. Job opportunities for both majors are available in industry, public agencies, consulting, and private practice.

Biological systems engineering is one of the newest and most rapidly developing branches of engineering. Emphasis is placed on the design, analysis, and manufacturing of biological systems. A biological systems engineer could work on systems to micropropagate tissue culture, develop biomaterials, design equipment and processes for producing bioproducts or develop extruders to manufacture new foods. Still another could be responsible for developing biological sensors to detect human diseases, minimize plant and animal stress or for controlling the environment of greenhouses and animal facilities. Biological systems engineers are also involved in resolving environmental issues such as toxic waste management, water quality, and biodegradable products.
Agricultural engineering involves the design, analysis, manufacture and management of machines, structures and systems for production agriculture and processing. Thus, agricultural engineers might be responsible for the design of the hydraulic system on a new tractor or harvester. Others could be performing stress analysis in a center-pivot irrigation system, designing a system to reclaim a polluted water body or managing an agricultural waste-water conservation district. Agricultural engineers also provide safe, reliable and economic solutions to new concepts such as harvesting and processing alternate crops for commercial products, geographic information systems for areas subject to ground-water pollution and, electronic management for the installation of pesticides and fertilizer applications.

The department is located in L. W. Chase Hall on the East Campus. After completing a degree in agricultural engineering, students participate in classes and laboratories on both the East and City Campuses. Courses in biochemistry, biology, machine design, plant and animal environment, irrigation, soil conservation, food and bioprocessing, electronics, soil and water engineering, structural design, biomedical engineering, natural resources, agronomy and animal science are offered on the East Campus. All courses in math, chemistry, physics, engineering, computers and electronics in mechanical, civil, electrical, industrial, and chemical engineering are taken on the City Campus. Convenient bus transportation is available between campuses.

Laboratories in Chase Hall provide facilities and equipment for the study of agricultural machines and power units, animal and plant environment control systems, bioprocessing systems, engineering properties of food and biological materials, irrigation hydraulics and air and water pollution control. Modern instruments available in the laboratories include computers, electronic biomedical image processors, water and air flow measurement devices, plant and animal environment chambers, non-destructive sensing devices for plants, animals and humans and computer-aided design equipment. The department maintains a student computer laboratory, a student activities room, a student design room, and a library. The NebraKs Tractor Testing Laboratory and the Industrial Agricultural Products Center are located in the department. The faculty also conducts agricultural research and Development Center at Mead and four Research and Extension Centers located throughout Nebraska.

After graduation, BSEN alumni will share the attributes of improving the organization for which they work, and the community and country in which they live. They will do this whether they are involved in biomedical engineering, water resources or environmental engineering, food or bioproducing engineering, or other professional endeavors such as business, law or medicine. In doing so, they will:

- provide innovative and effective solutions to problems in a variety of work environments through the use of their unique background in biological systems engineering and the biological sciences;
- look beyond components in isolation thereby providing holistic solutions to complex issues involving, for example, interactions at the subcellular, organism, organ, cellular or subcellular level;
- think logically using appropriate elements of mathematics, science, and engineering to develop, manage and interpret data, to correctly interpret new research findings and, to design new systems for the benefit of society;
- successfully integrate technical knowledge with communication and interpersonal skills to lead and work effectively in teams, and to articulate the role of engineering decisions in the workplace, community and world;
- responsibly address issues such as health and safety, personal and professional ethics, cultural diversity, as well as the social, environmental, and global impacts of their work;
- continue their personal growth, education, and professional development through various opportunities provided by institutions, professional societies and other venues and;
- remain involved in the department as active alumni who promote the biological systems engineering program and discipline, and mentor future generations of engineers.

Upon entering the workforce, AGEN graduates (whether they are involved in machine design, sensors and controls, soil and water resources or other professional endeavors such as business or law) will:

- applying their unique educational backgrounds in agricultural engineering by providing appropriate solutions to problems and adding value to the research, development, and design processes encountered in a variety of work environments;
- considering systems as a whole when solving problems, looking beyond components and subsystems individually;
- confidently using the necessary elements of mathematics, statistics, physical science, engineering, computer-aided measurement and analysis tools and current literature in solving problems and providing design solutions;
- successfully integrating their technical knowledge with skills in communication and persuasion, leading and working effectively in teams, and understanding cultural diversity and social and political forces that impact engineering decisions, as well as having the capability of competing in an international atmosphere;
- responsibly addressing issues of health and safety, ethics, and environmental impacts of engineering decisions;
- continuing their personal growth, education, and professional development through various opportunities provided by institutions, professional societies and other venues and;
- valuing their educational experience by remaining involved in the department as alumni, and continually promoting the agricultural engineering program and profession.

Students in both programs benefit from small classes and personal acquaintances with faculty. In consultation with their adviser, students select electives that permit specialization in areas applicable to their career aspirations. Many students work part-time on departmental research projects gaining valuable experience for later employment. Students also benefit from summer jobs, internships and co-op programs. These opportunities give students practical experience to learn about careers in engineering. Students also gain valuable experience through participation in professional organizations such as the American Society of Agricultural and Biological Engineers, the Soil and Water Resources Club, the Biomedical Engineering Society, the Nebraska Society of Professional Engineers and the Society for Women Engineers.

Biological systems engineering and agricultural engineering are both administered within the College of Engineering. Masters and PhD degrees are offered by the department and are awarded through the Graduate College.

### Requirements for the Degree of Bachelor of Science in Biological Systems Engineering (Lincoln Campus)

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester 1</strong></td>
<td><strong>Credits</strong></td>
</tr>
<tr>
<td>BSEN 100 Intro to Biological Systems Engineering &amp; Agricultural Engineering</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 113 Fundamental Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 101 Freshmen Engineering Seminar</td>
<td>0</td>
</tr>
<tr>
<td>MATH 106 Analytic Geometry &amp; Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 109 Social Sciences Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL 16</strong></td>
<td><strong>Credits</strong></td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td><strong>Credits</strong></td>
</tr>
<tr>
<td>BSEN 112 Engineering in Agricultural &amp; Biological Systems</td>
<td>2</td>
</tr>
<tr>
<td>BSEN 130 Computer Aided Design</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 114 Fundamental Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107 Analytic Geometry &amp; Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS/ASTR 211 General Physics I</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL 16</strong></td>
<td><strong>Credits</strong></td>
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<tr>
<td><strong>Semester 3</strong></td>
<td><strong>Credits</strong></td>
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<tr>
<td>BSEN 225 Engineering Properties of Biological Materials</td>
<td>3</td>
</tr>
<tr>
<td>BIO S 102 Cell Structure &amp; Function or BIO S 103 Organic Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 251 &amp; 253 or 261 &amp; 263 Organic Chemistry &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>MATH 223 Engineering Statics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 202 Sophomore Engineering Seminar</td>
<td>0</td>
</tr>
<tr>
<td>MATH 208 Analytic Geometry &amp; Calculus III</td>
<td>4</td>
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<tr>
<td><strong>TOTAL 18</strong></td>
<td><strong>Credits</strong></td>
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<tr>
<td><strong>Semester 4</strong></td>
<td><strong>Credits</strong></td>
</tr>
<tr>
<td>BIO C 321 &amp; 322L Biochemistry and Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BSEN 244 Thermodynamics of Living Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 203 Thermodynamics of Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MATH 211 Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Written Communication Elective</td>
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<tr>
<td>Computer Programming Elective</td>
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<tr>
<td><strong>TOTAL 17</strong></td>
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<tr>
<td><strong>Semester 5</strong></td>
<td><strong>Credits</strong></td>
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<tr>
<td>CIVE 310 or MECH 310 or CHEM 322 Fluid Mechanics</td>
<td>3</td>
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<tr>
<td>ENGR 204 Elementary Fluid Mechanics</td>
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<tr>
<td>IMSE 321 or MATH 380 Probability &amp; Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BSEN Emphasis Elective</td>
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<tr>
<td><strong>TOTAL 9</strong></td>
<td><strong>Credits</strong></td>
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</tbody>
</table>

1. Can choose from [GEN] 200 or 300.
3. An emphasis area requires a student to take 21 hours of engineering and science-based courses. A minimum of 15 hours must be selected from courses offered by the College of Engineering. Within the 15 hours, a minimum of 12 hours must be BSEN or engineering courses crosslisted with BSEN. Of the BSEN or BSEN crosslisted courses, one must be a 300-level course of a secondary emphasis area and one must be a 400-level course of a primary emphasis area. Water and Environment Emphasis requires both BSEN 326 and BSEN 350, Food and Bioprocessing Emphasis requires BSEN 303 and Biomedical Emphasis requires BSEN 317 as primary emphasis area courses.
BSEN Emphasis Elective .................................3

Semester 6
Credits
BSEN 344 Biological & Environmental Transport Processes ........................................3
Biological Science Elective ...............................4
BSEN Emphasis Elective (see list below) ................3
Engineering Emphasis Elective .............................3
Interpersonal Communication Elective ........................3

Semester 7
Credits
BSEN 460 Instrumentation & Controls ....................3
IM SE 206 or CIVE 452 Engineering Economics ...3
BSEN Emphasis Elective (see list below) ................3
Engineering or Science Emphasis Elective .................3

Semester 8
Credits
BSEN 480 Senior Design II ................................7
ENGR 400 Engineering Ethics .............................1
BSEN Emphasis Elective (see list below) ................3
Biological Science Elective .................................4
BSEN 431 Intro to Biomedical Engineering ...............3
BSEN 441 Medical Imaging Systems .......................3

Water and Environment
BSEN 326 Intro to Environmental Engineering ...........3
BSEN 350 Water Resources Engineering ................3
BSEN 433 Irrigation & DRAINAGE Systems Engineering ......................................................3
BSEN 455 N point Source Pollution Control Engineering 

Courses of Instruction

Biological Systems Engineering (BSEN)

[ES] 100. Introduction to Biological Systems Engineering and Agricultural Engineering (AEN 100) (1 cr) Let. 1
Description of careers in biomedical, environmental, water resources, food and bioproducts, and agricultural engineering.
The human, economic and environmental impacts of engineering in society: Communication, design, teamwork, and the role of ethics and professionalism in engineering work.

[ES] 112. Engineering in Agricultural and Biological Systems (AEN 112) (2 cr) Let. 2. Prereq: BSEN / BGEN 100
Introduction to the fields of biological systems and agricultural engineering. Problem solving techniques and procedures through the use of spreadsheets, symbolic processors, and graphical methods. Emphasis on problem solution, communication with topics and problems from agricultural and biological systems.

30. Computer-Aided Design (CIVE 130) (3 cr) Let. 1, lab. 3. Prereq: BSEN/BGEN 112 or CIVE 112
Use of computer-aided design software to communicate engineering ideas: Specifications, dimensioning, tolerancing, 2- and 3-D model development, topographic mapping, and process layout with environmental, bioresource, and biomedical emphasis.

50. Engineering Properties of Biological Materials (AEN 223) (3 cr) Let. 2, lab. 2. Prereq: MATH 106

Physical properties important to the design of harvesting, storage, and processing systems for agricultural crops principles and techniques for measurement of properties including frictional effects, particle size, strength, moisture content, specific heat, and thermal conductivity.

244. Thermodynamics of Living Systems (3 cr) Let. 3. Prereq: BISE 110, BIO 150, BISE 112, CHEM 110 or 114, MATH 208 and PHYS 211.
Introduction to the laws of thermodynamics and their application to biological and environmental systems. Zeroth, first, second, and third laws open and closed systems, entropy, and specific heat; and Gibbs free energy and chemical potential for biological and environmental applications. Applications to biochemical potentials, water potential, absorption, osmosis, radiation, membranes, surface tension, and fuguacity. Thermo-mechanical effects of chemical and physical change. Heat transfer, radiative heat transfer, and heat transfer with phase change. Introduction to concurrent transport of energy and mass in biological and environmental processes. Modes of heat transfer, steady and non-steady state heat conduction, convective heat transfer, and convective heat transfer with phase change. Introduction to equilibrium, kinetics, and modes of mass transfer: diffusion, dispersion, and convective mass transfer. Includes chemical needs and heating, energy and mass balances of crops, diffusivities of membranes, animal energy balances, respiration, and photosynthesis.

350. Soil and Water Resources Engineering (350) (3 cr) Let. 2, lab. 3. Prereq: MATH 221 and parallel: M/ECH 310 or CHEM 332 or permission.
Introduction to soil and water resources and the engineering processes used to analyze watersheds. Soil water relations, evaporation, interception, transpiration, runoffs, rainfall in natural watersheds and through reservoirs, wetland and groundwater hydrology, and water quality. Geographic information system use. Understanding and analyzing watershed characteristics. A selected watershed is investigated.

410/41A. Medical Imaging Systems (3 cr) Let. 3 Prereq: BSEN 311 or ELEC 303
Underlying physics, instrumentation, and signal analysis of biomedical and biological imaging modalities: MRI, CT, ultrasound, nuclear medicine, and the human visual system. Energy-tissue interactions. Resolution, point spread function, contrast, diffraction, comparison, instrumentation. Information content in images for biological systems.

For course description, see CIVE 422/822.

For course description, see CIVE 425.

441/841. Animal Waste Management (AEN 441/841) (3 cr) Let. 3. Prereq: Senior standing.
Characterization of wastes from animal production. Specification and design of collection, transport, storage, treatment, and land application systems. Air and water pollution, regulatory and management aspects.

446/846. Unit Operations of Biological Processing (3 cr) Let. 2, lab 2. Prereq: AEN or BSEN 225 or CIVE 395 or CHEM 332 or equivalent.
Applications of heat, mass, and moment transport in analysis and design of unit operations for biological and agricultural materials. Evaporation, drying, distillation, extraction, leaching, thermal processing, membrane separation, centrifugation, and filtration.

Introduction to the laws of thermodynamics and their application to biological and environmental systems. Zeroth, first, second, and third laws open and closed systems, entropy, and specific heat; and Gibbs free energy and chemical potential for biological and environmental applications. Applications to biochemical potentials, water potential, absorption, osmosis, radiation, membranes, surface tension, and fuguacity. Thermo-mechanical effects of chemical and physical change. Heat transfer, radiative heat transfer, and heat transfer with phase change. Introduction to concurrent transport of energy and mass in biological and environmental processes. Modes of heat transfer, steady and non-steady state heat conduction, convective heat transfer, and convective heat transfer with phase change. Introduction to equilibrium, kinetics, and modes of mass transfer: diffusion, dispersion, and convective mass transfer. Includes chemical needs and heating, energy and mass balances of crops, diffusivities of membranes, animal energy balances, respiration, and photosynthesis.

459/858. groundwater Engineering (CIVE 459/858) (3 cr) Prereq: CIVE 362 or AEN or BSEN 350 or equivalent.
For course description, see CIVE 458/858.

Introduction to the laws of thermodynamics and their application to biological and environmental systems. Zeroth, first, second, and third laws open and closed systems, entropy, and specific heat; and Gibbs free energy and chemical potential for biological and environmental applications. Applications to biochemical potentials, water potential, absorption, osmosis, radiation, membranes, surface tension, and fuguacity. Thermo-mechanical effects of chemical and physical change. Heat transfer, radiative heat transfer, and heat transfer with phase change. Introduction to concurrent transport of energy and mass in biological and environmental processes. Modes of heat transfer, steady and non-steady state heat conduction, convective heat transfer, and convective heat transfer with phase change. Introduction to equilibrium, kinetics, and modes of mass transfer: diffusion, dispersion, and convective mass transfer. Includes chemical needs and heating, energy and mass balances of crops, diffusivities of membranes, animal energy balances, respiration, and photosynthesis.

507. Engineering Properties of Biological Materials (AEN 507) (3 cr) Let. 2, lab. 2. Prereq: MATH 106

Physical properties important to the design of harvesting, storage, and processing systems for agricultural crops principles and techniques for measurement of properties including frictional effects, particle size, strength, moisture content, specific heat, and thermal conductivity.
496. Special Problems (AGEN 496) (1-6 cr I, II, III) 
Prereq: Senior standing and permission. Investigation and written report on engineering problems not covered in sufficient depth through existing courses. Topics vary.

499H. Honors Thesis (AGEN 499H) (1-6 cr) Prereq: Senior or junior standing, admission to the University Honors Program. Independent project which meets the requirements of the University Honors Program, conducted under the guidance of a faculty member in the Department of Biological Systems Engineering. The project should contribute to the advancement of knowledge in the field. Written thesis and formal presentation required.

898. Seminar I (AGEN *898) (1 cr) Required for all entering graduate students.

896. Special Problems (AGEN *896) (1-6 cr I, II, III) 
Prereq: Permission.

898. Internship (AGEN *898) (1-6 cr) Prereq: Permission.

899. Masters Thesis (6-10 cr) 
Refer to the Graduate Bulletin for 900-level courses.

Requirements for the Degree of Bachelor of Science in Agricultural Engineering (Lincoln campus)

Semester 1 
AGEN 100 Intro to Biological Systems Engineering & Agricultural Engineering 1 
CHEM 111 Chemistry for Engineering & Technology 4 
ENGR 010 Freshman Engineering Seminar 0 
MATH 106 Analytic Geometry & Calculus I 5 
AGEN or Biological Sciences Elective 3 
Humanity or Social Science Elective 3 

Semester 2 
AGEN 112 Engineering in Agricultural & Biological Systems 2 
MATH 107 Analytic Geometry & Calculus II 5 
M ECH 130 Intro to CAD 2 
PHYS/ASTR 211 General Physics I 4 
Humanity or Social Science Elective 3 

Semester 3 
AGEN 225 Engineering Properties of Biological Materials 3 
ENGM 221 Engineering Statics 3 
ENGR 020 Sophomore Engineering Seminar 0 
MATH 208 Analytic Geometry & Calculus III 4 
PHYS/ASTR 212 General Physics II 4 
Written Communication Elective 3 

Semester 4 
Credits 
ENGM 373 Engineering Dynamics 3 
IM SE 206 Engineering Economy 3 
MATH 221 Differential Equations 3 
M ECH 200 Engineering Thermodynamics 3 
Oral Communication Elective 3 
Computer Programming Elective 3 

Semester 5 
Credits 
CIVE 310 or M ECH 310 Fluid Mechanics 3 
ELEC 211 Elements of Electrical Engineering I 3 
ENGM 325 Mechanics of Elastic Bodies 3 
Theory of Elasticity 3 
Engineering Electives 3 
Interpersonal Communication Elective 3 
Humanity or Social Science Elective 3 

Semester 6 
Credits 
AGEN 325 Power Systems I 3 
AGEN 346 Biological & Environmental Transport Processes 3 
IM SE 321 or MATH 380 Probability & Statistics 3 
Management Elective 3 
Engineering or Science Electives Elective 3 

Semester 7 
Credits 
AGEN 424 Machine Design in Agricultural Engineering 3 
AGEN 443 Design of Light Frame Structures or AGEN 441 Animal Waste Management 3 
AGEN 453 Irrigation & Drainage Systems 3 
AGEN 460 Instrumentation & Controls 3 
AGEN 470 Senior Design I 1 
ENGM 480 Numerical Methods in Engineering 3 

Semester 8 
Credits 
AGEN 480 Senior Design II 3 
ENGR 400 Engineering Ethics 1 
Humanity or Social Science Electives 3 
Engineering Electives 3 

Total Credit Hours Required: 130

Courses of Instruction

Agricultural Engineering (AGEN)

Course Descriptions

AGEN 100: Introduction to Biological Systems Engineering and Agricultural Engineering (3 cr) 
AGEN 112: Engineering in Agricultural & Biological Systems (3 cr) 
AGEN 225: Engineering Properties of Biological Materials (3 cr) 
AGEN 325: Power Systems I (3 cr) 
AGEN 346: Biological & Environmental Transport Processes (3 cr) 
AGEN 424: Machine Design in Agricultural Engineering (3 cr) 
AGEN 443: Design of Light Frame Structures (3 cr) 
AGEN 441: Animal Waste Management (3 cr) 
AGEN 453: Irrigation & Drainage Systems (3 cr) 
AGEN 460: Instrumentation & Controls (3 cr) 
AGEN 470: Senior Design I (3 cr) 
AGEN 480: Senior Design II (3 cr)

Course Descriptions

Elec 103: Introduction to Biological Systems Engineering and Agricultural Engineering (1 cr) 
Elec 112: Engineering in Agricultural and Biological Systems (1 cr) 
Elec 225: Parallel: ENGM 373 
Elec 303: Principles of Process Engineering (3 cr) 
Elec 322: Unit Operations of Agricultural Machines (3 cr) 
Elec 453/853: Analysis and design consideration of evapotranspiration, soil moisture, and water movement as related to irrigation and drainage systems analysis and design of components of irrigation and drainage systems including water supplies, pumping plants, sprinkler systems, and center pivots.

453/853: Irrigation and Drainage Systems Engineering (BSEN 453/853) (3 cr) 
456/856: Irrigation and Drainage Systems Engineering (BSEN 456/856) (3 cr) 
441/841: Animal Waste Management (BSEN 441/841) (3 cr)

443: Design of Light-Frame Structures (3 cr) 
449: Honors Thesis Program (BSEN *499) (1-6 cr) 
446: Special Problems (BSEN *496) (1-6 cr I, II, III) 
449: Honors Thesis Program (BSEN 449H) (1-6 cr) 
470: Design I in Agricultural and Biological Systems Engineering (BSEN 470) (1 cr) 
470H: Honors Design Project I (BSEN 470H) (1 cr)

Agricultural Engineering (AGEN) 

Chair: William H. Vandel 
Professors: Brand (adjunct), Hendrix, Larsen, Maged, Saraf, T. M., V. A. 
Associate Professors: Launderback, N. O., Swanson, Subramanian, V. C. 
Research Assistant Professors: Iman, M. M., Swanson, D. D.

Senior Lecturer: D. M. D. 

The mission of the University of Nebraska-Lincoln chemical and biomolecular engineering program is to provide qualified students with a foundation in engineering sciences and engi-
The Department of Chemical and Biomedical Engineering has established the seven Educational Objectives given below. Objectives related to the BSc ChE program are marked by asterisks (*):

- *Educate students in the principles and methods essential to chemical and biomolecular engineering consistent with the curricular requirements of the American Institute of Chemical Engineers (AIChE).
- *Broaden perspectives of students regarding social issues and responsibilities, ethics and professionalism.
- *Graduate BS chemical engineers recognized for excellence and trained to successfully compete for positions in local, state, and national industry, and enter high quality graduate programs throughout the country.
- Prepare MS and PhD chemical engineers to conduct innovative and independent research and development functions for industry, government and academia.
- Create and provide access to knowledge that is supportive of the needs of chemical and biomolecular engineering.
- Foster an intrinsic curiosity for life-long learning.
- Respond to the technical needs for economic development and diversification in the state and region.

The Department of Chemical and Biomedical Engineering offers a course of study designed for students who plan careers in a wide variety of industries, ranging from the chemical and process industries to biotechnology, electronics, and rocketry. The Department offers an introductory course in the basic subjects of mathematics, English, and physics in common with other students in engineering, but in addition receive extensive training in chemistry. In various courses the emphasis is placed on the fundamental principles of chemical engineering, heat transfer, mass transfer, separation processes, thermodynamics, kinetics, and process dynamics, as well as economic and design of chemical processes.

The instructional laboratories provide opportunities for students to operate experimental equipment, to test the theories and correlations developed in the classroom, and to design their own experimental equipment for the solution of special problems.

Graduates are qualified to undertake work in research, design, development, production, maintenance, and technical sales in a wide variety of industries including chemicals, petroleum, petrochemicals, rubber, plastics, agricultural chemicals, food, biotechnology, pharmaceuticals, paper, fabrics, aircraft, automotive, electronics, energy conversion, and environmental pollution prevention and control.

The Department of Chemical and Biomolecular Engineering is located in Othmer Hall. A state-of-the-art uniprocess unit operations laboratory used to give hands-on chemical process experience is located there. Laboratory equipment is provided for the study of fluid mechanics, heat transfer, mass transfer, staged operations, process control, thermodynamics, reaction kinetics, and numerical simulation. The Department operates its own microcomputer facility. Additional research equipment is available for independent and graduate study in several areas.

The chemical and biomolecular engineering program provides for a minimum of 12 credit hours of technical electives. The purpose of these technical electives is to provide the student with the opportunity to gain new knowledge in an area of engineering or science beyond the basic undergraduate chemical engineering program. The technical electives may be in engineering design, engineering science, physical science, life science, and/or math. Special emphasis options available in the Chemical and Biomedical Engineering Department include biotechnology, materials science, and environmental engineering. Courses lacking a quantitative physical science foundation such as accounting, marketing, economics, or law are normally not acceptable as technical electives.

Registration for all technical electives requires the approval of a departmental adviser. Students are expected to complete their technical elective requirements during their junior and senior years with corresponding level of courses. Introductory 100-level courses are not accepted as technical electives. Similarly, advanced Placement (AP) high school classes are not allowed as technical electives. Several advanced placement (AP) high school courses are not allowed as technical electives. Courses that are offered under biotechnology/bioengineering, materials engineering, environmental engineering, and mathematics and statistics are listed below. Students are strongly encouraged to select their technical electives from this list. Any course(s) taken outside of this list must be approved by the student's academic adviser prior to registration in the course. Also, with the preapproval of the student's academic adviser, a maximum of 3 credit hours of CHEM 499 Senior Project or CHEM 499H Honors Thesis may be applied toward the technical elective requirements.

For those students who have been admitted to the University Honors Program, junior- and senior-level chemical and biomolecular engineering courses are designated as Honors Designated courses (i.e., CHEM XXXH) on a "contract basis" between the student and the instructor with approval by the department faculty. The requirement of an honors thesis research project is fulfilled by completion of a minimum of 3 credits of CHEM 499H (Honors Thesis) under the direction of a department faculty member. Additional information on the University Honors Program, including admission requirements, can be found in the Honors Program section of this bulletin.

**Requirements for the Degree of Bachelor of Science in Chemical Engineering (Lincoln campus)**

Any student in the chemical and biomolecular engineering program whose grade point average in required chemical engineering courses is less than 2.4 will be admitted to the required courses of the following year only with the special permission of the department.

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 113 Fundamental Chemistry</td>
<td>4</td>
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<tr>
<td>CHME 112 Intro to Chemical Engineering</td>
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<tr>
<td>MATH 106 Analytic Geometry &amp; Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>ENGR 010 Freshman Engineering Seminar</td>
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<th>Semester 2</th>
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<tr>
<td>CHM 116 Organic Chemistry Lab</td>
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<tr>
<td>MATH 107 Analytic Geometry &amp; Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 210A A Quantum Physics</td>
<td>3</td>
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<td>ENGR 120 Freshman Engineering Seminar</td>
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<th>Semester 3</th>
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<tbody>
<tr>
<td>CHEM 261 Organic Chemistry</td>
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<tr>
<td>CHEM 263A Organic Chemistry Lab</td>
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<tr>
<td>CHME 402 M &amp; A Energy Balances</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 223 Engineering Statics</td>
<td>3</td>
</tr>
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<td>ENGR 020 Sophomore Engineering Seminar</td>
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<tr>
<td>MATH 208 Analytic Geometry &amp; Calculus III</td>
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<td>Phys 212 General Physics</td>
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<td>CHEM 262 Organic Chemistry</td>
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<tr>
<td>CHEM 264A Organic Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHME 203 Equilibrium Stage Operations</td>
<td>3</td>
</tr>
<tr>
<td>CSCE 105 Intro to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>JGEN 200 Technical Communications</td>
<td>3</td>
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<tr>
<td>MATH 221 Differential Equations</td>
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<tr>
<td>CHM 481 Physical Chemistry</td>
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<tr>
<td>CHM 322 Chemical Engineering Computation</td>
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<td>CHME 322 Chemical Engr Thermodynamics</td>
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<td>CHME 332 Transport Operations</td>
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<td>ENGR 225 Social &amp; Professional Responsibility</td>
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<tr>
<td>CHM 482 Physical Chemistry</td>
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<tr>
<td>CHM 332 Chemical Engr Thermodynamics</td>
<td>3</td>
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<tr>
<td>CHME 333 Transport Operations</td>
<td>3</td>
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<tr>
<td>ELEC 211 Elements of Electr. Engr</td>
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<tr>
<td>ENGR 299J Intro to Engineering Design</td>
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<th>Semester 7</th>
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<tbody>
<tr>
<td>CHM 430 Chemical Engineering Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHM 442 Chemical Reactor Engineering &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>CHM 452 Chemical Engineering Processing Economics &amp; Optimization</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 300 Professional Ethics &amp; Social Responsibility</td>
<td>3</td>
</tr>
<tr>
<td>Technical Electives</td>
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<th>Semester 8</th>
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<tr>
<td>CHM 453 Chemical Engineering Process Design</td>
<td>3</td>
</tr>
<tr>
<td>CHM 480 Automatic Process Control</td>
<td>3</td>
</tr>
<tr>
<td>CHM 482 Automatic Process Control</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 400 Professional Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours Required: 134</td>
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</table>

11. The sequence CHEM 109, 110, 221 is an acceptable alternative to CHEM 113, 114, 116. However, 3 of the 12 credits of the former are not applicable to the degree and there may be scheduling problems. The students' advisor should be consulted.
12. Humanity/social science electives 18 hours (see "Comprehensive Education" on page 289).
13. The 12 hours of technical electives must include at least 3 credit hours of engineering science. All must be approved by the advisor.

The chemical and biomolecular engineering program's mission aligns with all three parts of the University of Nebraska–Lincoln's stated mission: "The three-part mission of teaching, research and service serves as the charter challenge for the University of Nebraska–Lincoln." In pursuing out this mission, the interflow of ideas and efforts among teaching, research and service produces an institutional impact that is greater than the sum of its separate parts, and insures a level of program quality consistent with the expectations and the needs of the people of Nebraska.
Courses of Instruction (CHME)

112. Introduction to Chemical Engineering (3 cr I) Lec 3. The chemical engineering profession; basic engineering calculations, chemical process measurements and calculations, underlying natural laws and relationships; properties of single compounds and mixtures of compounds; design of equipment and unit operations; process flowsheets and systems analysis; material balances including those with chemical reaction, purge and recycle, distillation, and extraction.


312. Chemical Engineering Computation (3 cr I) Lec 3. Prereq: Junior standing; CHME 155, MATH 221; or permission.
Computational methods in orthogonal polynomials, numerical integration, matrix operations and ordinary differential equations as they apply to chemical engineering problems such as reactions, reactor design, transport operations and control.


332/832. Transport Operations I (3 cr I) Lec 3. Prereq: CHME 332; Application to multicomponent systems; thermodynamics, phase equilibria, chemical reaction equilibria, and process analysis.


442/842. Reactor Reactor Design and Reactor Design (Design Engineering Principles (3 cr II) Prereq; CHME 323 or permission. Basic principles of chemical kinetics are coupled with models of reactors that can be used to design systems, design and operation of chemical processes.

452/852. Chemical Engineering Process Economics and Optimization (3 cr I) Prereq: Senior standing in CHME. Emphasis on design and analysis of chemical processes.


474/874. Advanced Biochemical Engineering (2-6 cr) Prereq: CHME 473/873 or permission. Recent theoretical and technical developments in biochemical engineering.

475/875. Biochemical Separations (3 cr) Lec 3. Prereq: CHEM 433/833. Separation and purification of compounds of biological origin from an analytical perspective. Application of unit operations for these separations.


486/886. Electrochemical Engineering (3 cr I I) Prereq: CHEM 333, and 442, and MECH 518 and MTL 360, or permission. Thermodynamic and kinetic principles of electrochemistry are applied to the design and analysis of electrochemical processes, including chemical production, batteries, fuel cells, and corrosion prevention.

489/889. Air Pollution, Assessment and Control (3 cr) Lec 3. Prereq: Senior standing. Survey of the present day state of the air pollution problem and the application of engineering and scientific principles to its practical and effective coordinated control.

496/896. Advanced Topics in Chemical Engineering Computation (3-6 cr max. 6) Prereq: CHEM 322 or CSCF 432 or ENS 435 or ENGM 480 or 487, or permission. Intensive treatment of special topics of current research interest in such areas as steady-state and dynamic process simulation, design optimization, computer-aided product research, stochastic optimization, and numerical methods applied to transport problems.

500. Senior Problems (1-6 cr) Conf and lab. Prereq: Senior standing. Research and development problems which include literature surveys, equipment design and operation, and development of correlations.


499H. Honors Thesis (1-6 cr) Conf and lab. Prereq: Senior standing in CHME. Honors thesis in chemical engineering. Students are introduced to the process of life-long learning.

Department of Civil Engineering

Chair: Mohamed F. Dahab
Associate Chairs: Bruce Dvorak, John Stansbury
Professors: A. Adham, Benak, Bogardi, Dahab, M. O. O. N., R. I. R. B., Rosson, Sicking, Tadros
Associate Professors: A. Adham, Dvorak, Jones, Khattak, H. K. R., M. O. O. S., Rohde, Stanbury, T. S., T. H.
Assistant Professors: A. Adham, H. R. D., Guo, K. D.

The Department of Civil Engineering offers a complete undergraduate program to students on the Lincoln and Omaha campuses of the University of Nebraska. Curriculum requirements are nearly identical on both campuses. The goal is to prepare students for entry into the civil engineering profession immediately after graduation or to pursue graduate-level work.

The general educational objectives of the University of Nebraska-Lincoln civil engineering undergraduate program are to prepare our graduates to:

- successfully obtain employment in their areas of expertise in the public or private sectors;
- understand the ethical and professional demands of contemporary civil engineering practice;
- successfully enroll in graduate engineering or other professional programs;
- understand the necessity of team work in engineering practice;
- be able to communicate effectively in professional settings;
- understand and be able to account for the effects of their professional decisions on the quality of life and the environment;
- successfully pursue professional licensure; and
- continue to seek further education in a process of lifelong learning.

As a professional discipline, civil engineering is closely related to the total human environment. In all professional endeavors, the civil engineer must consider ecological effects as well as the social, economic, and political needs of people. The civil engineer designs systems to control and manage our water resources to provide electric power, agricultural irrigation, flood control, recreation, water supplies and wastewater treatment systems for our urban and industrial needs.

The civil engineer plans, designs, and constructs our transportation systems including highways, railroads, waterways, and airports to connect rural, urban, and industrial areas. The civil engineer also designs and constructs housing and facilities for recreational, industrial, and commercial complexes, which comprise the urban environment. It is the responsibility of civil engineering to minimize air, water, and land pollution and protect the environment.

Instructional emphasis is placed on fundamental engineering principles derived from mathematics, physics, and engineering science. These subjects provide a sound background for the subsequent introductory courses in environmental, geotechnical, structural, transportation, and water resources engineering. Students are introduced to design concepts in the freshman year. Design is incorporated throughout the curriculum which...
cullminates in two senior-level courses CIVE 490 Issues in Civil Engineering and CIVE 495 Senior Design Project.

Instructional laboratories in environmental engineering, hydraulics, geotechnical engineering, structures, surveying, and transportation provide each student with an opportunity to learn, through individual participation, the operation of the testing equipment used to establish engineering design criteria and to monitor and model engineering facilities such as water and wastewater treatment plants, highway systems, river control systems, and structural systems.

Some students may desire to obtain a degree in construction management in addition to the degree in civil engineering. Because civil engineering courses require prerequisites beyond those required for similar construction management courses, students should obtain the civil engineering degree first. Advising will be done by civil engineering faculty members familiar with the construction management curriculum. After completing the civil engineering degree, the student will move to the construction management department to complete requirements for the second undergraduate degree in construction management. The departments of Civil Engineering and Architecture have a joint program awarding licensing degrees in both fields of study. A bachelor's degree in civil engineering and masters degree in architecture are awarded, after approximately seven years of study. The departments work with individual students in tailoring a joint degree program. Several students are currently pursuing joint degrees; more information can be obtained from either department office.

The Department of Civil Engineering and Architecture has a cooperative program that leads to dual degrees in physics from Wesleyan and civil engineering from UNL. More information can be obtained from either the Department of Physics or the Department of Civil Engineering.

Requirements for the Degree of Bachelor of Science in Civil Engineering (Lincoln and Omaha campuses)

Students must have completed the equivalent of the third semester before applying for admission to the civil engineering program. Transfer students must have all transfer hours accepted before applying for the degree program.

Semester 1  
Credits  
Chemistry \(^\text{14}\)  
CIVE 112 Intro to Civil Engineering  
ENGR 010 Freshman Engineering Seminar  
MATH 126 Analytic Geometry & Calculus I  
CSCE 150 Intro to Computer Programming for Scientists and Engineers  
H umanity/Social Science Elective  
Total 4  

Semester 2  
Credits  
CIVE 130 Computer-Aided Design \(^\text{15}\)  
CIVE 221 Geometric Control Systems  
MATH 107 Analytic Geometry & Calculus II  
PHYS/ASTR 211 General Physics I  
PHYS/ASTR 221 Physics Lab \(^\text{16}\)  
Total 15  

Semester 3  
Credits  
ENGR 223 Engineering Statics  
ENGR 200 Sophomore Engineering Seminar  
J ENG 200 or 300 Technical Communications I or II  
MATH 208 Analytic Geometry & Calculus III  
PHYS/ASTR 212 General Physics II \(^\text{17}\)  
H umanity/Social Science Elective \(^\text{18}\)  
Total 17  

Semester 4  
Credits  
CIVE 361 Highway Engineering  
COM M 311 Business & Professional Commun ication  
ENGR 325 M, achnics of Elastic Bodies  
ENGR 373 Engineering Dynamics  
MATH 221 Differential Equations for Engineers  
Total 16  

Semester 5  
Credits  
CIVE 310 Fluid mechanics \(^\text{19}\)  
CIVE 319 Hydraulics Lab  
CIVE 326 intro to Environmental Engineering  
CIVE 327 Environmental Engineering Lab  
CIVE 341 Intro to Structural Engineering  
MATH 380 or IMSE 321 Statics & Applications  
Total 17  

Semester 6  
Credits  
CIVE 334 Intro to Geotechnical Engineering  
CIVE 352 Intro Water Resources Engineering  
CIVE 378 M, aterial of Construction  
Computer M, thods \(^\text{20}\)  
H umanity/Social Science Elective \(^\text{21}\)  
Total 18  

Semester 7  
Credits  
CIVE 490 Intro to Civil Engineering Practice  
Design Electives \(^\text{22}\)  
H umanity/Social Science Electives \(^\text{23}\)  
Technical Electives \(^\text{24}\)  
Total 18  

Semester 8  
Credits  
CIVE 495 Senior Design Project  
Design Elective \(^\text{25}\)  
H umanity/Social Science Elective \(^\text{26}\)  
Technical Elective \(^\text{27}\)  
Total 18  

Total Credit Hours: 130  

Design Electives  
CIVE 419. Flow Systems Design (3 cr)  
CIVE 425. Environmental Engineering Process Design (3 cr)  
CIVE 426. Design of Water Treatment Facilities & Disposal Facilities (3 cr)  
CIVE 427. Design of Wastewater Treatment & Disposal Facilities (3 cr)  
CIVE 436. Foundation Engineering (3 cr)  
CIVE 440. Reinforced Concrete Design (3 cr)  
CIVE 441. Steel Design I (3 cr)  
CIVE 452. Water Resources Development (3 cr)  
CIVE 460. Highway Design (3 cr)  
CIVE 464. Traffic Control System Design (3 cr)  

Courses of Instruction (CIVE)

[ES] 122. Introduction to Civil Engineering (1 cr)  
[ES] 123. Introduction to Civil Engineering as a career by use of case studies alternate approaches to engineering designs illustrated by use of engineering principles.

125. Ecology, the Environment, and the Engineer (3 cr)  
Investigation into the nature of ecology, man’s relation to the environment, and the potential influence, for good or bad, of modern man’s activities.

221. Geometric Control Systems (3 cr)  
Lab 2. Pre req: MATH 106.  
Introduction to the theory and application of measurement and geometric information processing in civil engineering.  
M easurement of distance, direction, elevation and location using mechanical, electronic and satellite systems collection of field data; error propagation; elementary geometric data bases for design, construction, operation and control of civil works.

222. Construction Materials Laboratory (1 cr)  
Lab 3. Pre req: CIVE 122.  
Introduction to laboratory materials; concrete and other construction materials as they relate to in-service conditions and acceptability.

230. Fluid Mechanics EME 310 (3 cr)  
Prereq: MATH 373.  
H onors students required to study beyond levels expected of students in normal sections and prepare a special report.

233. Hydraulics Laboratory (1 cr)  
H ydraulics experiments and demonstrations; velocity, pressure and flow measurements; pipe flow, open channel flow; hydraulic structures and machinery; hydrologic and sediment measurements and student project.

236. Environmental Engineering EME 326 (3 cr)  
Prereq: CIVE 110 or 111 or 113, and MATH 221.  
Introduction to principles of environmental engineering including water quality, atmospheric pollution prevention, and solid and hazardous waste engineering.  
D esign of water, air, and waste management systems.

236H. Honors Introduction to Environmental Engineering EME 326H (3 cr)  
Prereq: CIVE 110 or 111 or 113, and MATH 221.  
Introduction to principles of environmental engineering including water quality, atmospheric pollution prevention, and solid and hazardous waste engineering.  
D esign of water, air, and waste management systems.

237. Environmental Engineering Laboratory EME 327 (2 cr)  
Lab 3. Pre req: MATH 110 or 111 or 113, and MATH 221.  
Introduction to environmental engineering experiments, demonstrations, field trips, and projects.  
Environmental engineering experiments include the measurement and determination of environmental quality parameters such as solids, dissolved oxygen, biochemical and chemical oxygen demand, and alkalinity.

238. Concrete Materials (2 cr)  
Lab 3. Pre req: CIVE 110 or MATH 223.  
Physical properties of cement and concrete.  
S ampling, testing, inspection.  
D esign of concrete structures.  
F ingfactures, strength.  
S pecifications, building forms and placing concrete.

14. Chemistry requirement must be CHEM 111, 113, or both CHEM 109 and 110 (8 hrs).
15. MATH 130 is an acceptable substitute.
16. PHYS 222 is an acceptable substitute if taken parallel with PHYS/ASTR 212.
17. Either CHEM 114 and 116, or 221 are acceptable substitutes.
18. Computer Methods must be selected from CSE CSE 340, IMSE 328, or ENGM 480.
19. Design Electives must be taken from at least two sub-disciplines. The department has an approved list of design electives.
20. Technical electives will be selected by the student in consultation with his/her advisor to formulate a coherent program in civil engineering.  
Two technical electives (up to 6 credits) can be taken from MATH 200, ELEC 211, IMSE 206 or any courses in science, mathematics, or other engineering areas approved by the department. The department has an approved list.

297
334. Introduction to Geotechnical Engineering (4 cr) Lec 3, lab 2. Prereq: CIVE 378 or equivalent. Fundamentals of hydraulics with applications of mechanics of solids, mechanics of fluids, and engineering economics to the design of hydraulic structures, and energy principles are applied to special problems from various branches of hydraulic engineering.

455/855. Nonpoint Source Pollution Control Engineering (BSEN 455/855) (3 cr) Prereq: BSEN/CIVE 326; BSEN/AGEN 350 or CIVE 352, or permission.
For description, see BSEN 455/855.

456/856. Surface Water Hydrology (3 cr) Prereq: CIVE 352 or 353/453 or permission. Stochastic analysis of hydrological data and processes including rainfall, runoff, infiltration, temperature, solar radiation, wind, and non-point pollution. Space-time hydrological modeling with emphasis on the application of techniques in the design of engineering projects.


459/859. Reliability of Structures (3 cr) Lec 3, Prereq: Parallel CIVE 341. Fundamental concepts related to structural reliability, safety factors, load models, resistance-based system reliability, optimum safety levels, and optimization of design codes.


461/861. Urban Transportation Planning (3 cr) Prereq: CIVE 361. Development of urban transportation planning objectives and goals. Data collection procedures, land use and travel forecast techniques, trip generation, trip distribution, modal choice analyses, and traffic assignment. Site development and traffic impact analysis.

462/862. Airports Planning and Design (3 cr) Prereq: CIVE 361. Planning and design of general aviation and air carrier airports. Landside components include vehicle ground-access systems, vehicle circulation parking, and terminal buildings. Airside components include aircraft apron-gate area, taxiway system, runway system, and air traffic control facilities and airspace. Emphasis on design projects.


465/865. Traffic Engineering Laboratory (1 cr) Lab 3. Prereq: CIVE 361 and STAT 360. Traffic engineering experiment and field studies used to measure traffic characteristics and device/pedestrian behavior. Measurements of traffic flow, speed, density, travel time, delay, and other characteristics of urban traffic flow, parking characteristics, and traffic conflicts Perception-reaction time and gap acceptance measurements.

468/868. Portland Cement and Asphalt Concrete Laboratory (1 cr) Prereq: CIVE 378 or equivalent. Laboratory and field procedures used to obtain portland cement and asphalt concretes for engineered construction.


475/875. Water Quality Strategy (AGRO, CIRP, GEOL, MSY, M, NRES, POL, SO, SQ 417/875; SOIL, WATS 475 (3 cr) Lec 3; Prereq: Senior standing or permission.
For course description, see AGRO 475/875.

476. Construction Cost Controls (CNS 476) (3 cr) Prereq: ACCT 306 or 201 and 202. Development of cost accounting principles and financial controls appropriate for construction contractors includes purchasing policies and procedures, labor and equipment cost reporting techniques, accounting procedures for control of materials and supplies, billing methods, principles of financial reporting and analysis.
The computer engineering degree requires 130 hours of work. There is a set of required core courses in computer science and engineering (29-32 credit hours), electrical engineering (28 credit hours), mathematics (23 credit hours), and physics and chemistry (13 credit hours). Students select technical electives (12 credit hours) distributed over at least three of the following five areas: system-level architecture, software systems, design implementation, communication, and distributed systems. The computer engineering applications program maintains a list of special topics selections that may be substituted as technical electives. Students must complete the humanities and social science requirements of the college (18 hours), a technical writing course, and the college’s freshmen and sophomore seminars and professional ethics course.

Technical Electives U to 3 hours of CSE 491 (internship) can be used as a technical elective. The area fulfilled by CSE 491 is decided on a case-by-case basis. See adviser for more information. NOTE: Students completing the JD Edwards Honors Program automatically receive technical electives. The area can be fulfilled by CSE 491 (internship) for credit or CSE 491 (internship) for non-credit. See adviser for more information.

System-Level Architecture: CSE 432, 485; ELEC 476, 479

Design Implementation: CSE 434; ELEC 436, 447

Communication & Distributed Systems: CSE 455, 462, 463; ELEC 462, 464

**Courses of Instruction (CSCG)**

**Semester 1 Credits**
- CSC 150 Computer Science I ................................. 3
- CSC 245 Unix Programming ................................. 1
- ENGR 100 Freshman Engineering Seminar ............ 0
- ELEC 121 Intro to Electrical Engineering .......... 3
- MATH 106 Analytic Geometry & Calculus I .... 3
- PHYS 211 General Physics I ................................. 4
- PHYS 212 General Physics II ............................... 4
- STAT 380, IMSE 321 or ELEC 305 Probability & Statistics .......... 3

**Semester 2 Credits**
- CSC 156 Computer Science II ............................... 3
- CSC 230 Computer Organization ......................... 3
- CSC 250 Computer Organization Lab ....... 1
- ELEC 216 Electronics & Circuits II ...................... 3
- MATH 208 Analytic Geometry & Calculus III .... 4
- PHYS 212 General Physics II ............................... 4
- PHYS 222 General Physics II ............................... 4
- ENGR 020 Sophomore Engineering Seminar .......... 0

**Semester 3 Credits**
- CSC 235 Discrete Structures ................................ 3
- ELEC 215 Electronics & Circuits ......................... 3
- ELEC 233 Electronics & Circuits Lab I ............... 1
- MATH 308 Analytic Geometry & Calculus IV .... 4
- PHY S 211 General Physics I ............................... 4
- PHY S 212 General Physics II ............................... 4
- ENGR 020 Sophomore Engineering Seminar .......... 0

**Semester 4 Credits**
- CHEM 109 General Chemistry I ......................... 3
- CSC 310 Data Structures & Algorithms ............... 3
- ELEC 233 Electronics & Circuits ......................... 3
- ELEC 234 Electronics & Circuits Lab II ............... 1
- MATH 221 Differential Equations ......................... 3
- MATH 309 Linear Algebra ................................. 3
- HUM S/SCIE Elective #2 ................................. 3

**Semester 5 Credits**
- CSC 351 Operating System Kernels ................. 3
- ELEC 316 Electronics & Circuits ......................... 3
- ELEC 370 Digital Logic Design ......................... 3
- GEN S Technical Communication I ..................... 3
- STAT 380 IMSE 321 or ELEC 305 Probability & Statistics .......... 3

**Semester 6 Credits**
- CSC 430 Computer Architecture ......................... 3
- ELEC 307 Electrical Engineering Lab .............. 2
- MATH 314 Applied Linear Algebra ....................... 3
- HUM S/SCIE Elective #3 and #4 ......................... 6

**Semester 7 Credits**
- CSC 340 Numerical Analysis I ......................... 3
- CSC 488 Computer Engineering Professional Development .......... 3
- ELEC 370 Digital Logic Design ......................... 3
- Technical Electives #1 ................................. 3
- HUM S/SCIE Elective #5 ................................. 3

**Semester 8 Credits**
- # CSC 489 Computer Engineering Senior Design Project .......... 3
- # ELEC 476 Advanced Electronic Hardware Software ........ 3
- Interfacing ............................................ 1
-ENGR 400 Professional Ethics ......................... 1
- Technical Electives #4 and #5 ......................... 6
- HUM S/SCIE Elective #6 ................................. 3

**Total Credit Hours Required:** 130

Grades of C- or higher in CSC 155, 156, 230, 230L, 325; ELEC 121, 215, 233; MATH 106, 107, 208; PHYS 211, 212, 222.

**Program Assessment:** In order to assist the department in evaluating the effectiveness of its programs, majors will be required in their senior year to complete a written exit survey.

**Special Topics in Computer Science**
- (1-3 cr, max 6)
- Prereq: Permission. CSC 245 will not count towards a major or minor in computer science and computer engineering.
- Aspects of computers and computing at the community level for non-computer science and computer engineering majors and/or minors. Topics will vary.

**Special Topics in Computer Science**
- (1-3 cr, max 6)
- Prereq: Permission.
- Aspects of computers and computing for computer science and computer engineering majors and/or minors. Topics will vary.

**Elective Courses**
- (1-3 cr, max 6)
- Prereq: Grade of "P" or "C" or better in CSC 155 or 155H, or detailed knowledge of a high-level programming language parallel to CSC 230.

**Total Credit Hours Required:** 130

**Elective Courses**
- (3 cr, ret 1)
- Prereq: Grade of "P" or "C" or better in CSC 155 or 155H, or detailed knowledge of a high-level programming language parallel to CSC 230. CSC 230L covers the same topics as CSC 230, but in greater depth.
- For course description, see CSC 230.

**Elective Courses**
- (2 cr)
- Prereq: Grade of "P" or "C" or better in CSC 155 or 155H, or detailed knowledge of a high-level programming language parallel to CSC 230. CSC 230L covers the same topics as CSC 230, but in greater depth.
- For course description, see CSC 230.

**Elective Courses**
- (1 cr, max 6)
- Prereq: Familiarity with at least one high-level programming language.
- Introduction to the Unix operating system. Unix file system. Unix tools and utilities. Shell programming.

**Elective Courses**
- (1 cr)
- Prereq: Familiarity with at least one high-level programming language. C or Java cannot be given for both CSC 250 and any of CSC 150, or ENS 196.
- Principles and practice of FORTRAN programming.

**Elective Courses**
- (1-3 cr, max 6)
- Prereq: Permission. CSC 245 will not count towards a major or minor in computer science and computer engineering.
- Aspects of computers and computing for computer science and computer engineering majors and/or minors. Topics will vary.

**Elective Courses**
- (1-3 cr, max 6)
- Prereq: Permission.
- Aspects of computers and computing for computer science and computer engineering majors and/or minors. Topics will vary.

**Elective Courses**
- (1-3 cr, max 6)
- Prereq: Permission.
- Aspects of computers and computing for computer science and computer engineering majors and/or minors. Topics will vary.

**Elective Courses**
- (1-3 cr, max 6)
- Prereq: Permission.
- Aspects of computers and computing for computer science and computer engineering majors and/or minors. Topics will vary.

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- (1-3 cr, max 6)
- Prereq: Permission.
- Aspects of computers and computing for computer science and computer engineering majors and/or minors. Topics will vary.

**Elective Courses**
- (1-3 cr, max 6)
- Prereq: Permission.
- Aspects of computers and computing for computer science and computer engineering majors and/or minors. Topics will vary.

**Elective Courses**
- (1-3 cr, max 6)
- Prereq: Permission.
- Aspects of computers and computing for computer science and computer engineering majors and/or minors. Topics will vary.

**Elective Courses**
- (1-3 cr, max 6)
- Prereq: Permission.
- Aspects of computers and computing for computer science and computer engineering majors and/or minors. Topics will vary.
335. Digital Logic Design (ELEC 370) (3 cr) Prereq: ELEC 311 or ELEC 312.
For course description, see ELEC 370.

Prereq: Grade of "Pass" or "C" or better in CSCE 150 or 155; MATH 208 or 208H. C or better toward the degree may be earned only in ELEC 310 or MATH 340. MATH 340 is not open to students who have had or are taking MATH 240.

Algorithm formulation for the practical solution of interpolation, numerical differentiation, and integration. Effects of finite precision.

351. Operating System Kernels (3 cr) Lec 2. Lab 2. Prereq: Grade of "Pass" or "C" or better in CSCE 230 or 230H, 230L, and 310; ELEC 121 or CSCE 230.
Design and implementation of operating system kernels. Bootstrapping and system initialization, process context switching, I/O hardware and software, DMA, I/O polling, interrupt handlers, device drivers, clock management. Substantial programming implementing or extending an instructional operating system kernel.

378. Human-Computer Interaction (3 cr) Lec 3.
Prereq: CSCE 156. STAT 380 recommended.
The knowledge and techniques useful in the design of computing systems. The human information processing characteristics important in HCI, computer system features such as input and output devices, dialogue languages, and information presentation, task analysis, prototyping and the iterative design cycle, user interface implementation, interface evaluation.

383H. Honors Fundamentals of Software Engineering (JDJ ELEC 383H) (3 cr) Lec 3. Prereq: Good standing in the University Honors Program; admission to the J. D. Edwards Program; CSCI/CDEP 284H. Fifth course in the J. D. Edwards Program.
Proper principles and methods of engineering software. Requirements, design, implementation, management and software evolution.

389. Special Topics in Computer Science (1-3 cr, max 6) Prereq: Permission. A credit will not count towards a major or minor in computer science or computer engineering.
Apects of computing and computing for non-computer science and computer engineering majors and minors. Topics vary.

399H. Honors Thesis (1 cr) Prereq: Permission. 0 pen to students in the honors program and to candidates for degrees with distinction, with high distinction, and with highest distinction.

Prereq: CSCE 235, 310, or permission.

Prereq: CSCE 413. Includes practical experience with a working database application.
Data and storage models for database systems: entity relationship, and constraints models; relational models; hierarchical and network models. SQL and its extensions. Logical database design: normalization, integrity; distributed data storage; concurrency issues. Spatial databases and geographic information systems.

Prereq: A programming language program, MATH 221 and 314.
Polyhedral interpolation, uniform approximation, orthogonal polynomials, first-order approximation, polynomial and spline interpolation, approximation and interpolation by rational functions.


Prereq: Grade of "Pass" or "C" or better in CSCE 230 and 310. C or better toward the degree may be earned only in ELEC 310 or MATH 340. MATH 340 is not open to students who have had or are taking MATH 240.
Algorithm formulation for the practical solution of interpolation, numerical differentiation, and integration. Effects of finite precision.

455. Distributed Operating Systems (3 cr) Lec 3.


462. Communication Networks (3 cr) Lec 3. Prereq: CSCE 230 and 310; STAT/MATH 380 or STAT 880.

Packets, systems, and languages for Internet applications. Client-side and server-side programming, object-based and event-based distributed programming, and multi-tier applications. Coverage of specific technologies varies.

For course description, see MATH 465/865.

467. Software Quality (3 cr) Lec 3. Prereq: CSCE 310 or permission.
Overview and ongoing software analysis, including metrics, requirements, correctness, performance, testing and validation. Frameworks and methods for software quality. Benchmarking, software reliability, software assurance, and model-based software: quality software tools, testable designs and automated testing.

Display and rendering devices, incremental polynomials, points, pixel, and color generation, grey scale display, digitizers and scanners, digital image storage; interactive and passive graphics; ray tracing; data structures and graphics software; the mathematics of three dimensions homogeneous coordinates projections and the hidden line problem.
**College of Engineering/Construction Management Program**

**471/871. Introduction to Bioinformatics** (3 cr) Lec 3. Prereq: CSE 310, ST/MATH 380 or STAT 880.

Fundamentals and trends in bioinformatics. Scoring matrices and pairwise sequence alignments via dynamic programming, BLAST, and the Smith-Waterman algorithm. Multiple sequence alignments. Applications of machine learning methods such as hidden Markov models and support vector machines to biological problems such as family modeling and phylogeny.

**472/872. Digital Image Processing** (3 cr) Lec 3. Prereq: CSE 156 or permission of the instructor.

Digital imaging systems, digital image processing, and low-level computer vision. Data structures, algorithms, and system analysis and design. Image segmentation, feature extraction, image registration, image understanding, and application. Image analysis techniques, segmentation, color, texture, and motion analysis, and representation of 2-D and 3-D shape. Applications for content-based image retrieval, digital libraries, and interpretation of satellite imagery.

**474/874. Introduction to Data Mining** (3 cr) Lec 3. Prereq: CSE 310, STAT/MATH 380, or STAT 880.

CSE 474/874 requires the completion of a project involving the application of data mining techniques to real-world problems. Data mining and knowledge discovery methods and their application to real-world problems. Algorithmic systems and issues, statistical foundations, association discovery classifications, prediction, clustering, spatial data mining, and advanced techniques.


Distributed problem solving and planning, search algorithms for agents, distributed rational decision making, learning multiagent systems, computational organization theory, formal methods in Distributed Artificial Intelligence, intelligent multiagent negotiations, emergent behaviors (such as ants and worms), and Robocup technologies and real-time coalition formation.


Introduction to basic principles, techniques, and tools now being used in the area of machine intelligence. Languages for AI programming introduced with emphasis on LISP. Topics include problem solving, search, game playing, knowledge representation, expert systems, and applications.


Introduction to the theory and practice of computer security. Topics classical cryptography (substitution, Vigenere, Hill and permutation ciphers, the one-time pad), block ciphers and stream ciphers, Public Key cryptography, including RSA and El Gamal systems, Signatures and Hashing, the Digital Signature Standard, Key exchange, key management, identification protocols.


Introduction to the fundamentals and current trends in machine learning. Possible applications for game playing, text categorization, speech recognition, automatic system design, database mining, computational biology, and robotics. Theoretical and empirical analyses of decision trees, artificial neural networks, Bayesian classifiers, genetic algorithms, instance based classifiers and reinforcement learning.

**479/879. Introduction to Neural Networks** (3 cr) Lec 3. 

Introduction to the concepts, design and application of connection-based computing by simulating neural networks focusing on competitive alternative network architecture, including sparse distributed memories, Hopfield networks, and the backpropagation feed-forward systems. Construction and improvement of algorithms used for training of neural networks addressed to reduce training time and improve generalization capabilities. Training for supervised and unsupervised learning effective networks implemented in high level language programs running on conventional computers. Emphasis on methods for combining and simplifying network architecture for improved generalization. Application areas include: pattern recognition, computer vision, robotics, medical diagnosis, weather forecasting, and telecommunications.

**486. Computer Science Professional Development** (1 cr) Lec 1. Prereq: CSE 361, CSE 486. Must be taken exactly one semester before CSE 487.

Preparation for the senior design project. Professional practice through familiarity with current tools, resources, and technologies, professional standards, practices and ethics, and the oral and written report styles used specifically in the field of computer science.

**487. Computer Science Professional Development** (3 cr) Lec 3. Prereq: Senior standing (CSE 361 and 486). CSE 487 uses the team approach to undertake a substantial, broadly-defined project requiring aggregation of the technical and analytical skills learned in other CSE courses.

**488. Computer Engineering Professional Development** (2 cr) Lec 2. Prereq: CSE 487, CSE 489; or parallel; CSE 430/830 and 486. Application of the computer engineering theory and practice to a project undertaken by the student in cooperation with the faculty advisor. (Options include construction of a complete microcomputer system, or the completion of a research project).

**489. Computer Engineering Senior Design Project** (3 cr) Lec 3. Prereq: Senior standing (CSE 361 and 486). CSE 489 admission to the College of Engineering. CSE 489 must be taken first and it is intended primarily for registration for CSE 489. Permission must be obtained to take CSE 489 and 486 out of sequence. CSE 489 uses a team approach. Undertake a student design project requiring aggregation of the technical and analytical skills learned in other CSE courses.

**Special Topics in Computer Science** (1-3 cr, max 6)

Permission: CSE 489 will not count towards a major or minor in computer science and computer engineering.

Topics vary.

**Internship in Computing Practice** (1-3 cr, max 6)

Fitz. Prereq: CSE 319 and permission. CSE 491 requires a detailed project proposal and final report.

Experiential learning in conjunction with an approved industrial or government agency under the joint supervision of an outside sponsor and a faculty advisor. A practicum of computers and computing not covered elsewhere in the curriculum presented as the need arises.

**Honors Special Topics in Computer Science** (1-3 cr per term, max 24) Prereq: Senior or graduate standing.

Aspects of computers and computing not covered elsewhere in the curriculum presented as the need arises.

**Consortium with the University Honors College** (3 cr)

Permission: Invitation of the University Honors College. Program or by invitation; specific course prerequisites will vary depending on the topic.

**Computer Problems** (3 cr) Prereq: Senior or graduate standing.

Independent study performed in conjunction with an approved industrial or government agency under the guidance of a member of the faculty of the Department of Computer Science and documentation of a computer problem domain or the development of knowledge of the numerical or nonnumerical aspects of computer science.

**Masters Project** (1-6 cr) Prereq: Permission of the adviser.

**Masters Thesis** (6-10 cr)

Refer to the Graduate Bulletin for 900-level courses.

**Construction Management Program**

**Interim Program Director:** Michael Riley

**Associate Professors:** Berryman, Harmon, Stentz, Wentz

**Assistant Professors:** Fischer, Jensen, Stegman

Construction is the largest and most diversified industry in the country, accounting for approximately 10 percent of the gross national product. The key professional in this vast enterprise is the “constructor,” a term given to the leaders and managers in the construction industry, having the responsibility for planning, scheduling, and building the projects designed by architects and engineers. These highly specialized efforts are indispensable in meeting the country’s growing need for new structures and environmental control projects.

Construction firms vary in size from local corporations to small proprietorships and partnerships. These are often classified according to the kind of construction work they do: general contractors, heavy and highway contractors, specialty contractors including mechanical and electrical, and residential builders and developers. Many firms engage in more than one category of work. Some larger companies incorporate the architectural and engineering design functions as part of their activity as a design build firm. Collectively, Constructors build our entire man-made environment—buildings for housing, commerce, industry, and government; transportation services including highways, railroads, waterways, and airports; municipal service facilities and utilities, such as power plants and energy distribution systems; military bases and space center complexes. Thus the construction management field is broad and challenging, requiring a unique educational background for its professional practitioners.

Educational standards and criteria for construction education programs are established by the American Council for Construction Education (ACCE) which is the accrediting agency for construction education programs at all levels. The program at the University of Nebraska-Lincoln, having met these standards and criteria, is currently fully accredited by ACCE.

Although the range of construction activities appears wide and diverse, the general educational requirements for construction management are universal regardless of a particular firm’s area of specialization. Since construction is primarily a business enterprise, the graduate must have a sound background in business management and administration areas, as well as an understanding of the fundamentals of architecture and engineering as they relate to the project design itself as well as to the actual construction process in the field. Professional expertise lies in the fields of construction science, methods, and management. A working knowledge of structural design, mechanical and electrical systems, soil mass behavior, and construction equipment is also essential.

The construction management curriculum embraces a course of study in specifications, contractual agreements, labor relations, personnel management, materials, methods and work analysis techniques. Technical and humanity electives provide for a well-rounded education that leads to a challenging career in the construction industry.

Students interested in obtaining a degree in civil engineering and construction management are advised to enroll in civil engineering. Because some civil engineering courses require prerequisites beyond those required for similar construction management courses, students should obtain a civil engineering degree first. While in civil engineering, they will be advised by an adviser familiar with the construction management curriculum. After completing requirements for the civil engineering degree, the student will move to the construction management department to complete the requirements for the second degree in construction management.
**Requirements for the Degree of Bachelor of Science in Construction Management (Lincoln campus)**

**Semester 1**
- **Credits**
  - **CNST** 131 Intro to Construction Industry .......................... 3
  - **ENGL 151 English Composition I................................. 3
  - **ENGR 010 Freshman Engineering Seminar ......................... 0
  - **GEOL 101 Physical Geology ..................................... 4
  - **MATH 106 Calculus I .............................................. 5

**Semester 2**
- **Credits**
  - **CNST** 122 Construction Communications.......................... 4
  - **ENG 200 Technical Communications ................................ 3
  - **STAT 218 Intro to Statistics .................................... 3
  - **HUM/SOC Social Science Elective ................................ 3
  - **Science Elective with Lab** .................................... 4-5

**Semester 3**
- **Credits**
  - **ARCH 106 Environmental Studies ................................ 3
  - **CIVE 221 Geometric Control Systems .......................... 3
  - **CIVE 252 Material Testing Lab ................................ 1
  - **CNST 241 Construction Equip & M ethods I ................. 3
  - **CNST 242 Construction M aterials ................................. 3
  - **ENGM 220 Stats .................................................. 3
  - **ENGR 020 Sophomore Engineering Seminar ..................... 0

**Semester 4**
- **Credits**
  - **CNST 242 Construction Equip & M ethods II ............... 3
  - **CIVE 311 Engineering & Professional Communications ....... 3
  - **ECON 210 Intro to Economics .................................. 5
  - **ENGM 324 Strength of M aterials .............................. 3
  - **HUM/SOC Social Science Elective ................................ 3

**Semester 5**
- **Credits**
  - **ACCT 306 Accounting .............................................. 4
  - **ARCH 211 Structural Design I .................................. 3
  - **CNST 305 Physical Environmental Systems I ................ 3
  - **CNST 378 Construction Estimating I .......................... 3
  - **M NGT 360 Managing Behavior in Organizations ............ 3

**Semester 6**
- **Credits**
  - **ARCH 252 Structural Design II ................................ 3
  - **CNST 306 Physical Environmental Systems II ................ 3
  - **CNST 379 Construction Estimating II ........................... 3
  - **FINA 361 Financial Management or IM SE 206 .............. 3
  - **Technical Elective ............................................... 3

**Semester 7**
- **Credits**
  - **BLAW 371 Legal Environment .................................... 3
  - **CNST 480 Productivity & Human Factors in Construction .... 3
  - **CNST 485 Construction Project Scheduling & Control ....... 3
  - **HUM/SOC Social Science Elective ................................ 3
  - **Technical Electives .............................................. 3

**Semester 8**
- **Credits**
  - **CNST 492 Professional Practice .................................. 3
  - **CNST 476 Construction Cost Controls .......................... 3
  - **CNST 489 Senior Construction Project ......................... 3
  - **Construction Management Elective ............................... 3
  - **Technical Elective ................................................ 3

**Total Credit Hours Required:** 123-124

**Courses of Instruction (CNST)**

112. Construction Communications (3 cr) Lec 3, lab 1.
- Development of written and oral communication skills, including the ability to read and write documents, including graphic symbols, project controls, drafting, and design.

131. Introduction to the Construction Industry (1 cr) Lab 3.
- Introduction to basic management principles and practices used in the construction industry and the keys to the construction of the built environment.

- For course description, see CONE 241.

142. Construction Equipment and Methods (I (CONE 241) (3 cr) Lec. Prereq: CNST 241 and 251. CNST 242 is a continuation of CNST 241.
- The structure from grade to topping out. Functions and applications of material handling equipment from simple pulleys to large cranes. Methods of constructing concrete formwork in a variety of applications. Assembly and erection of steel, wood, precast concrete, and masonry structural elements. Calculation and operation of equipment and equipment.

251. Construction Materials and Specifications (3 cr) Lec. Prereq: CNST 112 and 131. CIVE 252 or parallel. 
- For course description, see ARCH 333.


- For course description, see CONE 378.

- Prereq: CNST 378.
- Continuation of CNST 378 with emphasis on implementing basic elements of estimating, including: quantity survey, selection, and bidding strategies, and computerization to the specialty field of mechanical construction.

405. Mechanical Estimating (3 cr) Lec 2, lab 3.
- Prereq: CNST 305, 306 and 379.
- Application of estimating principles, quantity take-off, bidding strategies, and computerization to the specialty field of electrical construction.

- Application of estimating principles, quantity take-off, bidding strategies, and computerization to the specialty field of electrical construction.

415/ 815. Mechanical / Electrical Project Management (3 cr) Lec, lab. Prereq: Senior standing; CNST 305 and 306.
- Fundamentals of project management within the mechanical and electrical contracting industry. Codes, contract documents, productivity, project controls, administration, scheduling, safety, and project closeout, from a specialty contracting perspective.

(IS) 420/ 820. Professional Practice and Ethics (3 cr) Prereq: Senior standing.
- Orienation to professional practice through the design and the contractors’ relationships to society, specific clients, their professions, and other collaborators in environmental design and construction fields, Ethics, professional communication and responsibility, professional organization, office management, construction management, professional registration, and owner-designer-contractor relationships.

434/ 834. Professional Trends in Design/ Build (3 cr) Prereq: CNST 434. Senior standing, construction major, and permission. Prereq: CNST 834: Major of engineering in construction or related disciplines, and permission. CNST 434 is also open to non-construction majors who have senior standing and obtain permission.
- The organizational, managerial, ethical, and legal principles in the delivery of design/build as a construction project delivery system.

441/ 841. Industrialized Systems Building (3 cr) Lec 3.
- Prereq: Senior or graduate standing.
- Historical background of industrialized systems building, its economic and social relevance in modern society; and its influence on the traditional role of the contractor within the construction industry. Changes that industrialized systems building will impose on the contractor’s approach to finance, management, and construction methods and equipment.

476. Project Budgets and Controls (CONE 476) (3 cr) Lec. Prereq: CNST 378 and ISMG 2060 (UNO).
- Prereq: CAN CT 2020 (UNO) may be substituted toward degree requirements for CAN CT 476. Credited toward the degree may be earned in only one of CAN CT 2020 (UNO) and CAN CT 476.
- For course description, see CAN CT 476.

480/ 880. Productivity and Human Factors in Construction (3 cr) Prereq: Senior standing; CNST 242 and M NGT 360.
- Examination and productivity improvement methods in the management of construction workers in their typical job environments along with methods to improve working environments in the field as well as the office. Various procedures and mechanisms to implement human behavior for enhanced productivity and safety.

482/ 882. Heavy and/ or Civil Construction (CONE 482) (3 cr) Lec. Prereq: Senior or Graduate standing in ARCH, AR EN, CIVE, CNST, or CAN CT.
- Application of management principles to the construction of heavy and/or civil projects. History, theory, and methods of planning and executing heavy and/or civil projects. Emerging equipment and new equipment capabilities. Economic use of equipment and managing costs associated with production.

- How to research, interpret, and apply building code requirements to the design and construction of both new and renovated structures.

- For course description, see CONE 485.

486/ 886. Construction Management Systems (3 cr) Prereq: CAN CT 218 or equivalent.
- Application of selected topics in systems analysis (operations research) to construction management; competition strategy, linear programming, queuing, transportation, trade-offs, learning curves, and other models. Construction applications.

- Research, interpret and apply building code requirements to the design and construction of both new and renovated structures.

488. Advanced Construction Management Techniques (3 cr) Lec, lab. Prereq: Junior standing and permission of instructor.
- Application of project management strategies in estimating, scheduling, project cash flow analysis, planning, marketing, land development, and project presentation in the residential setting. How construction projects are developed and marketed. Their construction plans to owners as part of the preconstruction and bid process.

489. Senior Construction Project (3 cr) Lec 1, lab 6.
- Prereq: Senior standing; CNST 379, 430, 480 and 485; or permission of program director.
- Execution of a construction project involving conceptual design and location, estimating, bidding, site layout, construction organization, planning, and construction control, records management, and project completion and documentation.
Department of Electrical Engineering

Chair: Jerry L. Hudgins
Professors: Alexander, Bahar, Boye, Hudgins, Ianno, Nelsen, Sayood, Soukup, Woolfam
Associate Professors: A. Aggarwal, Bakir, Hoffman, Liu, Pedret, Schlabach, Vaklitziad, Varner
Assistant Professors: Gursky, Velipasalar
Research Assistant Professors: Frank Shubert, Thompson
Visiting Professors: Patterson
Instructor: Russell
Senior Lecturer: Bauer

The mission of the Department of Electrical Engineering is to provide undergraduate- and graduate-level education in electrical engineering, perform research and other scholarly activities, and to furnish service to the state, industry, and the profession. To fulfill this mission, the department offers the degrees of bachelor of science in electrical engineering, master of science in electrical engineering, and doctor of philosophy in the College of Engineering’s Unified PhD Program. We place a high priority on undergraduate and graduate education and are continually striving to improve the curriculum, content, and delivery.

Electrical engineering is primarily concerned with the production, transmission, and utilization of electrical energy and the transmission and processing of information. The curriculum is designed to provide a broad education in fundamental principles and laboratory applications and an awareness of the socioeconomic impact of technology. Technical electives are normally selected from advanced courses in electrical engineering to provide specialization in selected areas. However, technical electives can also be selected from courses offered by other departments of the College of Engineering or from appropriate physics, mathematics, and biological sciences courses.

Employment opportunities for electrical engineers cover a wide spectrum of activities including design, development, research, sales, and management. These are activities that are carried on in industrial organizations, public and private utilities, the communications and computer industry, governmental and educational institutions, and consulting engineering firms.

The objective of the undergraduate program in electrical engineering is to offer students an education which will enable them to be productive electrical engineers and to be active, contributing citizens of the nation and the world. In order to meet this objective we have set several more specific objectives. These specific objectives are to:

1. Provide students with a good base understanding of basic principles and laws in mathematics, science, and basic electrical engineering which will allow them to succeed in more advanced courses and will serve them well in later years as they need to understand new technology.
2. Provide students with an understanding of adequate detail about a few specific areas of electrical engineering as a first step in career selection.
3. Provide students with experience in the application of knowledge acquired in the classroom, to enable productive solutions to practical electrical engineering problems.
4. Provide students with training and experience in technical and decision-making processes, and the human interactions necessary to produce viable technological solutions.
5. Encourage students to develop a positive interest in electrical engineering of the type which leads to lifelong learning and an active functioning in society.

Requirements for the Degree of Bachelor of Science in Electrical Engineering

Semester 1
- ELEC 121 Intro to Electrical Engineering I (3 cr)
- ENGR 010 Freshman Engineering Seminar (1 cr)
- MATH 106 Analytic Geometry & Calculus I (5 cr)
- Humanity/Social Science Elective (3 cr)
- Science Elective (1-6 cr, max 6) Prereq: Permission.

Semester 2
- ATEL 105 Interpersonal Skills (3 cr)
- ELEC 122 Intro to Electrical Engineering II (3 cr)
- MATH 107 Analytic Geometry & Calculus II (5 cr)
- PHYS 211 General Physics (4 cr)

Semester 3
- ELEC 215 Electronics & Circuits I (3 cr)
- ELEC 233 Introductory Electrical Laboratory I (1 cr)
- ENGR 020 Sophomore Engineering Seminar (1 cr)
- MATH 208 Analytic Geometry & Calculus III (4 cr)
- PHYS 212 General Physics (4 cr)

Semester 4
- ELEC 216 Electronics & Circuits II (3 cr)
- ELEC 234 Introductory Electrical Laboratory II (1 cr)
- MATH 221 Differential Equations (3 cr)
- Humanity/Social Science Elective (3 cr)

Semester 5
- ELEC 304 Signals & Systems (3 cr)
- ELEC 306 Electromagnetic Field Theory (3 cr)
- ELEC 307 Electrical Engineering Lab I (1 cr)
- MATH 316 Linear Algebra & Differential Equations (3 cr)
- ELEC 370 Digital Signal Design (3 cr)

Semester 6
- ELEC 305 Probability Theory & Intro to Random Processes (3 cr)
- ELEC 317 Electrical Engineering Lab II (1 cr)
- Technical Elective (3 cr)
- Humanity/Social Science Elective (3 cr)

Semester 7
- ELEC 494 Electrical Engineering Lab III (2 cr)
- Technical Elective (9 cr)
- Humanity/Social Science Elective (3 cr)

Semester 8
- ELEC 495 Electrical Engineering Design Lab I (3 cr)
- Technical Elective (9 cr)
- Humanity/Social Science Elective (3 cr)

Total Credit Hours Required for Graduation: 129

Courses of Instruction (ELEC)

[ES] 121. Introduction to Electrical Engineering (3 cr)
- Introduction to the analysis of digital computer circuits.

[ES] 122. Introduction to Electrical Engineering II (3 cr)
- Prereq: ELEC 121, MATH 106 or equivalent, 1 laboratory demonstrations and experiments included. Introduction to basic electrical engineering concepts, circuits, and signals. Computers used with M MATH LAB and M APLE to explore electrical engineering concepts.

[ES] 211. Elements of Electrical Engineering I (3 cr)
- Prereq: MATH 107 and PHY/SYSR 131 or 211. Not for electrical engineering majors. Basic circuit analysis including direct and alternating currents and operational amplifiers. Digital signals and circuits.

[ES] 215. Electronics and Circuits I (3 cr)
- Prereq: Permission.

[ES] 216. Electronics and Circuits II (3 cr)
- Prereq: ELEC 215, MATH 221 or parallel.

[ES] 222. Introduction to Embedded Systems (3 cr)
- Prereq: ELEC 122 or CSCE 230.
- Basic hardware and software concepts of embedded microprocessor systems and interfacing with other hardware components. Simple circuits are designed and drivers are run to test. These circuits are written, design and build hardware and write drivers in a basic language.

[ES] 231. Electrical Engineering Laboratory (1 cr.) Parallel: ELEC 211.
- Laboratory accompanying ELEC 211.

[ES] 233. Introductory Electrical Laboratory I (1 cr.) Lab.
- Prereq: ELEC 121 or CSCE 230.

[ES] 234. Introductory Electrical Laboratory II (1 cr.) Prereq: ELEC 233.

- Offered as the need arises to treat electrical engineering topics for second-year students not covered in other courses.

[ES] 304. Signals and Systems I (3 cr)
- Prereq: ELEC 122 or CSCE 155, ELEC 216, and MATH 221.

23. Science electives must be chosen from BIO/S 101 and 101L; CHEM 109 or 111 or 113; and PHYS 213.

24. Technical Electives are offered as the need arises to treat electrical engineering topics for second-year students not covered in other courses.

25. The approved computer programming electives are CSCE 150, 155, 156, 251K, 251U, 251Y, 252D, or 310.

26. The department has a list of approved technical electives.


307. Electrical Engineering Laboratory II (2 cr) Prereq: ELEC 234, Prerequisite or parallel ELEC 304 and 306. Laboratory work on circuits and systems digital and analog electronic circuits, and electromagnetics.


319. Digital Electronics (3 cr) Prereq: ELEC 316. Basic MOS and Bi TTL saturating and nonsaturating logic circuit memories and integrated circuits. Bus and interconnection.


382 Digital Systems Laboratory (1 cr) Lab. Prereq: ELEC 370. Lab work on digital circuits and systems using C A D tools. Voltage regulators, digital logic design, assembly language program, basic digital concepts, and a simple computer.

398. Special Topics in Electrical Engineering III (1-6 cr, max. 6) Prereq. Permission. O Prereq as the need arises to treat electrical engineering topics for third-year students not covered in other courses.

399. Undergraduate Research (1-3 cr per sem, 6 cr max total toward degree) Prereq: Electrical engineering seniors or approval. Research accompanied by a written report of the results.

400. 800. Electronic Instrumentation (3 cr) Prereq: Senior standing in engineering or permission. Applications of analog and digital devices to electronic instrumentations. Includes: vanadium, instrumentation amplifiers, mechanical and solid-state devices, data acquisition systems, phase-lock loops, and modulation techniques. Demonstrations with working circuits and systems.

409 806. Power Systems Analysis (3 cr) Prereq: ELEC 439 838. Symmetrical components and fault calculations, power system stability, generator modeling (circuit view point), voltage control system, high voltage D C transmission, and system protection.

407. Power Systems Planning (3 cr) Prereq: ELEC 305. Economic evaluation, load forecasting, generation planning, transmission planning, production simulation, power plant reliability characteristics, and generation system reliability.


416 816. Materials and Devices for Computer Memory Logic and Displays (3 cr) Prereq: PHYS 212. Survey of fundamentals and applications of devices used for memory, logic, and display: M OS, n - a n d i c o n d u c t i v e, and dielectric materials.

417 817. Integrated Circuits (3 cr) Lec 2, lab 1. Prereq: ELEC 316. Integrated circuit technology with emphasis on the circuit realizability considerations of interest to the circuit designer. Detailed investigation of various aspects of fabrication technology. Laboratory work involves primarily design and fabrication of an integrated circuit.

420 820. Plasma Processing of Semiconductors (3 cr) Prereq: Senior or graduate standing. Physics of plasma processes and plasma development. Includes basic collisional theory, the Boltzman equation and the concept of electron energy distributions. Results are related to specific gas discharge systems, plasma processing, such as sputtering, etching, and deposition systems.


422 822. Introduction to Physics and Chemistry of Solid State Devices I (3 cr) Lec 3. Prereq: PHYS 213 or PHYS 212 or C H E M 481/881, MATH 221/222 or 221/222, or permission. Introduction to structural, thermal, electrical, and magnetic properties of solids, based on concepts of atomic structure, chemical bonding in molecules, and electron states in solids. Principles underlying molecular design of materials and solid-state devices.

438 838. Introduction to Electric Power Engineering (3 cr) Prereq: ELEC 216. Power systems principles, three-phase circuits, transmission line parameters, transformers, per unit analysis, generator modeling, and power flow analysis.

442 842. Basic Analytical Techniques in Electrical Engineering (3 cr) Prereq: MATH 221. Applications of partial differential equations, matrices, vector analysis, complex variables, and infinite series to problems in electrical engineering.

444 844. Linear Control Systems (3 cr) Prereq: ELEC 304. Classical (transfer function) and modern (state variable) control techniques. Both time domain and frequency domain techniques are studied. Traditional proportional, lead, lag, and PID compensators are examined, as well as state variable feedback.

453 853. Linear System Analysis and Design (3 cr) Prereq: ELEC 304. In-depth introduction to the theory of linear systems. Includes the concept of state and state-variable models of both time-varying and time-invariant continuous and discrete time systems, linear state feedback, controllability and pole placement design, observability and observer design, stability theory, and realization theory.


463 863. Modern Active Filter Design (3 cr) Prereq: ELEC 304 and 361. Fundamental design concepts, trade-offs and design techniques of modern active filters are studied. Active R networks, compensation of op-amp imprecisions, switched capacitor filters introduced.


465 865. Introduction to Data Compression (3 cr) Prereq: ELEC 305. Introduction to the concepts of Information Theory and Redundancy removal. Simulation of various data compression schemes such as Delta Modulation, Differential Pulse Code Modulation, Transform Coding and Runlength Coding.


468 868. Microwave Engineering (3 cr) Prereq: ELEC 304. Applications of active and passive devices to microwave systems. Includes impedance matching, resonators, and microwave antennas.

469 Analog Integrated Circuits (3 cr) Prereq: ELEC 361. Analysis and design of analog integrated circuits both bipolar and M O S. Basic circuit elements such as differential pairs, current sources, active loads, output drivers used in the design of more complex analog integrated circuits.


478 878. Microprocessor Hardware, Software, and Interfacing (3 cr) Prereq: ELEC 350 or ELEC 476. Personal computer I/O, LSI circuits, programming, DOS, interfacing, and micro - controllers. Students expected to write programs in assembly language or in C and assembly language and to design hardware.

479 879. Digital Systems Organization and Design (3 cr) Prereq: ELEC 476 876. Hardware development languages, hardware organization and realization, microprogramming, interrupt, inter system communication, and peripheral interfacing.


481 881. Fourier Optics, Image Analysis, and Holography (3 cr) Prereq: Permission. Application of Fourier transforms to image analysis, optical computing, and holography. Other selected applications.

489/490. Radar Signal Processing (3 cr) Prereq: ELEC 305 and 306. Introduction to the design and operation of various types of atmospheric and meteorological Doppler radar, including weather radar and wind profiler.  Signal processing concepts used with modern Doppler radar systems.

489/490. Applied Photonics (3 cr) Lec 2, Lab 1. Prereq: ELEC 306 or permission. Introduction to the use of electromagnetic radiation for performing optical measurements in engineering applications. Basic electromagnetic theory and light interaction with matter are covered with corresponding laboratory experiments conducted.

115. 494. Electrical Engineering Senior Design I (2 cr) Lec 1, Lab 3, Prereq: ELEC 317 or permission. The first in a two semester capstone senior design course sequence. A substantial design project that allows application of electrical engineering skills to a multidisciplinary project. Requires project definition, planning and scheduling, effective written and oral communication of technical ideas, incorporation of realistic constraints and engineering standards, functioning effectively on a multidisciplinary team, and applying new ideas as needed to meet project goals.

115. 495. Electrical Engineering Senior Design II (3 cr) Lec 1, Lab 6. Prereq: ELEC 494 or permission. The first in a two semester capstone senior design course sequence. Continuation of a substantial design project that allows application of electrical engineering skills to a multidisciplinary project. A project that meets specifications and that is completed according to a pre-determined schedule and within budget. Requires effective written and oral communication of technical ideas, incorporation of realistic constraints and engineering standards, functioning effectively on a multidisciplinary team, and applying new ideas as needed to meet project goals.

498/499. Special Topics in Electrical Engineering IV (1-6 cr, max 9) Prereq: ELEC 494 or permission. Offered as the need arises to treat electrical engineering topics for fourth-year and graduate students not covered in other courses.

899. Masters Thesis (6-10 cr) Refer to the Graduate Bulletin for 900-level courses.

Engineering

Courses of Instruction (ENGR)

010. Freshman Engineering Seminar (0 or 110) Pr to only first year students in the College of Engineering. Pass/No Pass only. Introduction to the professions of engineering and construction management. Provides an overview of curricula, majors and leadership opportunities.

020. Sophomore Engineering Seminar (0 or 10) Pr to only first year students in the College of Engineering. Pass/No Pass only. Overview of career opportunities in engineering and construction management. Emphasizes internships, cooperative education and career placement.

250. Engineering Cooperative Education (0-12 cr, max 121, 11, 111) Lec 2, Prereq: Sophomore standing; permission of the College of Engineering Dean’s Office and department chair of the student’s engineering major. All students in engineering participating in cooperative education must register each term prior to commencement. Special approval is required to take course for credit. Pass/No Pass only. Cooperative education work in a regularly established cooperative education work-study program in any engineering curriculum.

350. Engineering Cooperative Education (0-12 cr, max 121, 11, 111) Lec 2, Prereq: Junior standing; permission of the College of Engineering Dean’s Office and department chair of the student’s engineering major. All students in engineering participating in cooperative education must register each term prior to commencement. Special approval is required to take course for credit. Pass/No Pass only. Cooperative education work in a regularly established cooperative education work-study program in any engineering curriculum.


450. Engineering Cooperative Education (0-12 cr, max 121, 11, 111) Prereq: Sophomore standing; permission of the College of Engineering Dean’s Office and department chair of the student’s engineering major. All students in engineering participating in cooperative education must register each term prior to commencement. Special approval is required to take course for credit. Pass/No Pass only. Cooperative education work in a regularly established cooperative education work-study program in any engineering curriculum.

450. Work Periods for Seniors

490. Global Experiences in Engineering (1-3 cr, max 9, 1, 11) Prereq: Permission. Co-op experience that advances the understanding of engineering in another country. Lec 1, lab 3. Pass/No Pass only. Cooperative education work in a regularly established cooperative education work-study program in any engineering curriculum.

50. Department of Engineering Mechanics

Chair: Joseph Turner
Professor: Allen, Dzenis
Associate Professors: Bao, Feng, N. Egbahin, Turner, Yang
Assistant Professors: Bobor, Li, Tan

The faculty of the Department of Engineering Mechanics at the University of Nebraska-Lincoln will deliver instruction and guidance in mechanics and other core courses in engineering across all programs in the College of Engineering; it will conduct leading-edge research; and it will provide service in the State of Nebraska and to the professional community. The major goals of the faculty are:

- to provide rigorous and continuously updated instruction in analytical, computational, and experimental mechanics to prepare undergraduate and graduate students for life-long learning and success in their chosen engineering professions;
- to conduct high quality research programs that advance engineering science and technology, and foster the intellectual development and creativity of both students and faculty to their fullest potential; and
- to provide exemplary service that contributes to the well-being of the engineering profession, industry, and the State of Nebraska.

The main function of this department at the undergraduate level is to provide courses that are included in the various curricula in the College of Engineering. These courses fall into the general areas of mechanics of solids engineering materials, computer-aided analysis in engineering, and experimental stress analysis.

Although the department does not offer a bachelor of science degree in engineering mechanics, it does participate in the Engineering Interdisciplinary Bachelor of Science Degree Program. At the graduate level, the department offers the master of science and the doctoral degrees in engineering mechanics.

490. Dynamic Materials Characterization Laboratory. This laboratory is used to study the dynamic response of materials subjected to impact or homogenous high-strain-rate deformation. The facility contains a high-speed camera, a high-speed pressure bar system, and a high-speed video system. The high-speed camera is used to record the dynamic response of materials subjected to high-speed loading conditions. The high-speed camera records the dynamic response of materials subjected to high-speed loading conditions. The high-speed camera is used to record the dynamic response of materials subjected to high-speed loading conditions. The high-speed camera is used to record the dynamic response of materials subjected to high-speed loading conditions.

Atomic Force Microscopy and Noninvasive Detection Laboratory. The atomic force microscope (AFM) in this laboratory is a thermomechanical atomic force microscope (AFM). The AFM produces a high-resolution image of the surface of the specimen. The AFM produces a high-resolution image of the surface of the specimen. The AFM produces a high-resolution image of the surface of the specimen. The AFM produces a high-resolution image of the surface of the specimen. The AFM produces a high-resolution image of the surface of the specimen.

Computer-Aided Engineering Laboratories. Computer laboratories are available in the Department, including a workstation laboratory and a computer laboratory. The computer laboratory is primarily used for research in computational mechanics and computer engineering. The computer laboratory is used as a support facility for courses in numerical methods, finite element methods, and computer-aided design and robotics.

Dynamics and Vibrations Laboratory. The facility is used to study the dynamic response of materials subjected to impact or homogenous high-strain-rate deformation. The facility contains a high-speed camera, a high-speed pressure bar system, and a high-speed video system. The high-speed camera is used to record the dynamic response of materials subjected to high-speed loading conditions. The high-speed camera is used to record the dynamic response of materials subjected to high-speed loading conditions. The high-speed camera is used to record the dynamic response of materials subjected to high-speed loading conditions. The high-speed camera is used to record the dynamic response of materials subjected to high-speed loading conditions.
Materials Testing Laboratory. This laboratory is equipped with testing machines and auxiliary instrumentation to cover a wide range of testing and research possibilities. Topographic surface profilometry uses seven universal-type testing machines, plus a 15-foot column machine, with capacities up to 500,000 pounds. Tensile, compression, bending, hardness, fatigue, impact, torsion, creep, and other specialized testing can be accommodated.

Nondestructive Evaluation Laboratory. This laboratory is used for detection and analysis of internal damage and flaws in advanced polymer composites and other engineering materials. The methods utilized include acoustic emission, piezoelectricics, and ultrasonic scanning. A state-of-the-art acoustic emission system is used for studying damage evolution under loading. This system combines a fully digital architecture with high processing dynamics that allows for studying material response under fast dynamic loads. The system is capable of simultaneous acquisition of acoustic emission parameters and transient data, and is equipped with location software and FFT software. Extensive filtering and cluster analysis capabilities enable damage mechanism identification. This acoustic emission system with a pulser is also used in dynamic experiments. Shapes and spectrum analyses of acoustic waves propagated through partially damaged materials are used to evaluate average damage parameters. A leading edge ultrasonic inspection system is used for spatial mapping of internal flaws. In addition to regular A-scan, B-scan, and C-scan, the system provides specialized capabilities, such as full digital waveform storage and analysis at each location, digital filtering, FFT analysis, and 3-dimensional imaging. A high signal conversion rate permits use of high resolution transducers with resonant frequencies within a frequency range of scanning acoustic microscopes.

Polymer Composites Laboratory. Properties of advanced lightweight fiber-reinforced polymer composites are studied in this laboratory. This laboratory includes a hot press for manufacturing thermoplastic composites, closed-loop programmable testing machines for quasi-static and fatigue testing, nondestructive evaluation equipment, and modern data acquisition hardware and software. A specialized press-clave for producing unidirectional, bidirectional, and braided composite materials is available. Thermal analysis equipment, and devices for mechanical characterization of interfaces between fibers and matrices are under development.

Polymer Mechanics Laboratory. This laboratory is equipped to conduct extension and shear testing of polymers at elevated temperatures. Automated data acquisition and control is available for the application of complex loading patterns, and for conducting long-term testing. A vacuum oven is available for sample preparation and conditioning.

Surface Mechanics and Tribology Laboratory. This laboratory is mainly for statistical studies of the topographical features of material surfaces. The laboratory provides surface topography on the micromechanical mechanisms governing the tribological response of these surfaces. The laboratory is equipped with a Proscan 1000 measuring system, which is an optical profilometer capable of non-contact three-dimensional surface profiling over large areas and at a 2-mm depth of field and a submicron resolution. The use of a chromatic sensor allows examinations of dark and rough surfaces such as those of fractured silicon carbide. The scanning process is fully computerized and the computer software generates topographical surface visualizations as well as complete statistical analysis of surface topography. An ongoing research project in the laboratory is to study the friction and wear mechanisms of fractured rough surfaces by comparing the surface features of such a tribopair before and after the experiment and by correlating the evolution of frictional response with that of surface topography.

Ultrasonic Materials Characterization Laboratory. This laboratory is used for characterizing materials including metals, concrete, piezoelectric materials, and ceramics. Of particular interest are diffuse ultrasonic methods for studying heterogeneous materials. Equipment in this laboratory includes two 200 MHz digital oscilloscopes, an ultrasonic pulse receiver, a 15 MHz arbitrary waveform generator, a large water tank with three-dimensional scanning control for ultrasonic measurements, preamplifiers, a large optical table with laser interferometer equipment, and a variety of ultrasonic transducers (longitudinal and shear) covering frequencies from 500 kHz to 20 MHz. Computers with GPIB boards and Labview software are used for control of experiments and data acquisition.

Courses of Instruction (ENGM)

Fundamental concepts, equilibrium of force systems, analysis of simple frames and trusses, centroid and moments of inertia and friction.

Action of forces on engineering structures and machines. Force systems, static equilibrium of frames and machines, friction, center of gravity, moment of inertia, vector algebra.

223H. Honors Engineering Statics (3 cr. I, II) Prereq: Good standing in the University Honors Program or by invitation; MATH 107 and PHYS 211. Bodies in equilibrium, equivalent force systems, distributed loads, and center of gravity. Analysis of trusses, frames, and machines. Friction, wedges,crews, and belts. Area moments of inertia.

Forces. Action in static coplanar systems with applications to engineering structures and machines. Resultants, moments, couples, equivalent force systems, vector algebra. Static equilibrium conditions and equations.

Stress and strain analysis in elastic materials. Use of properties of materials in the analysis and design of welded and riveted connections, statically determinate and indeterminate flexure members, columns, combined stresses, axial, eccentric and torsional loading, deflections of beams. Analysis of experimental tests for statically loaded specimens. Introduction to shear and moment diagrams.

Concept of stress and strain considering axial, torsional, and bending forces. Shear and moments. Introduction to combined stresses and column theory.

235H. Honors Mechanics of Elastic Bodies (3 cr. I, II) Prereq: Good standing in the University Honors Program or by invitation; ENGM 223 or 2223; MATH 208.


Force action related to displacement, velocity, and acceleration of rigid bodies. Kinematics of plane motion, kinetics of translation and rotation, moment of inertia, vibration, work, energy, and power, impulse and momentum.

373H. Honors Engineering Dynamics (3 cr. I, II) Prereq: Good standing in the University Honors Program or by invitation; ENGM 223 or 2223; MATH 208.
Motion of particles and rigid bodies. Determination of the action of forces and moments. Kinematics of plane motion: displacement, velocity, and acceleration. Kinetics of translation and rotation; work, energy, and power; momentum and impulse. Introduction to vibration analysis.

[ES] 380. Elements of Computer-Aided Design (3 cr) Lect 2, Lab 2. Prereq: MATH 221; MECH 130 or CSEC 150 or 250.
Principles and techniques currently used for the computer-aided design (CAD). Applications of interactive graphics devices for drafting, design, and analysis. Modeling and analysis of engineering systems. Elementary finite element, body, and numerical analyses. CAD case studies and term project.

399. Undergraduate Research and Thesis (1-5 cr. I, II) Prereq: Permission. This includes an individual laboratory investigation that an undergraduate is qualified to undertake.

447/448. Advanced Dynamics (3 cr. I, II) Prereq: ENGM 373 and MATH 221.


450/550. Introduction to Continuum Modeling (3 cr) Prereq: MATH 221/821, ENGM 325 and 373.
Basic concepts of continuum modeling. Development of models and solutions to various mechanical, thermal and electrical systems. Linear and non-linear coupled effects. Differential equations, dimensional methods and similarity.

451/551. Introduction to Finite Element Analysis (CIVE 451/851) (3 cr)

452/552. Experimental Stress Analysis (3 cr I, II) Prereq: MATH 221, ENGM 325.
Introduction of the basic theories and techniques associated with the analysis of stress using mechanical strain gages, electric strain gages, biaxial load gauge, photoelasticity, and membrane analogy.

475. Introduction to Vibrations and Acoustics (3 cr) Prereq: ENGM 373.

[ES] 480/880. Numerical Methods in Engineering (3 cr I) Prereq: MATH 221/821 and 314/844; Computer Programming I. Credit toward the degree cannot be earned in both CSEC 150 and ENGM 480/880.
Numerical algorithms and their convergence properties in: thin plates. Numerical solutions to linear systems of equations: eigenvalue problems, polynomial and spline interpolation, curve fitting, numerical integration and differentiation, initial and boundary value problems for ODE's with applications to engineering; and finite difference methods for partial differential equations (potential problems, heat equation, wave equation).

Introduction to nonlinear optimization using variational calculus and gradient-based methods. Constrainted and unconstrained nonlinear optimization, the Kuhn-Tucker conditions, penalty and barrier methods. Implementation of deterministic and stochastic search algorithms. Applications drawn from different engineering disciplines.

491/ 891. Special Topics in Engineering Mechanics (1-6 cr, max 6) Prereq: Permission. See current Schedule of Classes for offerings. Treatment of special topics in engineering mechanics by experimental, computational and/or theoretical methods. Topics vary from term to term.

499H. Honors Thesis (1-6 cr) Prereq: Senior standing; good standing in the University Honors Program or by invitation; major in engineering. Honors thesis research project meeting the requirements of the University Honors Program. Independent research project executed under the guidance of a member of the faculty of the Department of Engineering Mechanics that contributes to the advancement of knowledge in the field and culminates in the presentation of an honors thesis to the department and college.

801. Analytical Methods in Engineering I (3 cr) Prereq: ENGM 801 or permission.

802. Analytical Methods in Engineering II (3 cr) Prereq: ENGM 801 or permission.

843. Introduction to Piezoelectricity with Applications (3 cr) Prereq: ENGM 325 and 373 or permission.

875. Vibration Theory and Applications (3 cr) Prereq: ENGM 373 and MATH 221.


Refer to the Graduate Bulletin for 900-level courses.

Environmental Engineering

The Department of Biological Systems Engineering, Civil Engineering, and Chemical and Biomolecular Engineering at the University of Nebraska jointly administer a multi-disciplinary program of teaching and research leading to the masters of science in environmental engineering (MSEE) degree. The program home is in the Department of Civil Engineering. Environmental engineering faculty members in the three departments offer a balance of expertise covering four major areas of environmental engineering, as sanctioned by the American Academy of Environmental Engineers (AAEE). The field in which students may specialize include: water supply engineering, wastewater engineering, hazardous waste management engineering, and solid waste management engineering. In addition, a fifth area in diffuse (non-point) and agricultural waste management engineering is offered.

Department of Industrial and Management Systems Engineering

Interim Chair: K. P. Rajurkar
Interim Associate Chairs: Robert E. Williams, Professors: Ballard, Bishu, Choobineh, Cochran, H. Albicker, H. Hoffman, Rajurkar, R. Iley
Asst. Professors: Adams, Savory, Williams
Assistant Professors: Jones

The mission of the department is to educate engineers, conduct research, and disseminate information to benefit the citizens of Nebraska and the nation.

It is our educational goal to graduate outstanding engineers thoroughly trained in mathematics, basic sciences, engineering sciences, communications, computing, humanistic, social sciences, engineering design and industrial engineering fundamentals so that the graduates can enter the professional practice of engineering and perform at an exemplary level. Our program educational objectives are:

- Design, develop, implement and/or improve integrated systems that involve people, materials, machines, information, technology, processes, equipment, and/or financial resources
- Serve as effective change agents in the organizations that employ them, based on strong interpersonal and teamwork skills, an understanding of professional and ethical responsibility, and a willingness to take the initiative
- Able to use modern computer software tools to solve engineering problems and effectively communicate results, solutions, and/or recommendations
- Obtain professional employment and/or admission to a graduate education program.

The department offers instruction in the areas of ergonomics, engineering management, manufacturing, manufacturing systems, and operations research.

The department offers a curriculum leading to the degree of bachelor of science in industrial engineering, designed to help prepare the student for a wide range of employment positions or further study. Industrial engineering involves the science and practice of designing and managing complex integrated systems. Industrial engineering education provides students with the background to participate in such activities as manufacturing engineering, ergonomics, production planning and control, economic analysis, statistical analysis, quality control, manpower planning, facilities design, packaging, robotics, computer simulation, work design and analysis, inventory control and optimization.

The Department of Industrial and Management Systems Engineering is located on City Campus in 175 N. Nebraska Hall. The laboratory is equipped with equipment in this lab to test package designs and can record data for 72 days.

RFID and Supply Chain Logistics Laboratory. The laboratory is equipped with radio frequency identification (RFID) and software, Warehouse management software, conveyor systems, retrieval systems and SQL training simulator is included.

Requirements for the Degree of Bachelor of Science in Industrial Engineering

Semester 1 Credits
CHEM 109 General Chemistry II 5
ENGR 010 Freshman Engineering Seminar 0
ME 105 Intro to Industrial Engineering 5
MATH 106 Analytic Geometry & Calculus I 5
PHYS 211 General Physics I 5

Semester 2 Credits
MATH 107 Analytic Geometry & Calculus II 5
PHYS 212 General Physics II 5

Semester 3 Credits
ENGR 233 Engineering Statics 3
ENGR 234 Engineering Dynamics 3
ME 205 Manufacturing Processes 3

Human Factors/Ergonomics Laboratory. Equipment in this facility includes an environmental chamber, oxygen consumption equipment for measuring physical work capacities, force-sensing resistors for grip studies, hand and pinch dynamometers, bicycle ergometer, and electromyography. Equipment for assessing localized muscle fatigue. Work focuses on assessing risk factors for cumulative trauma disorders in the hand and wrists and on human-computer interaction studies to evaluate user menus and interface design for manufacturing.
<table>
<thead>
<tr>
<th>Semester 4</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CSC E 155 Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 211 Elements of Electrical Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 231 Electrical Engineering Lab</td>
<td>1</td>
</tr>
<tr>
<td>IM SE 250 Intro to Industrial Systems</td>
<td>3</td>
</tr>
<tr>
<td>IGEN 200 Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>MATH 221 Differential Equations</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Semester 5</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IM SE 305 Intro to Engineering Management</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 315 Intro to Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 321 Engr Statistics &amp; Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Engineering Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>HUMAN/ Social Science Elective</td>
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<thead>
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<tbody>
<tr>
<td>IM SE 328 Deterministic OR Models</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 334 Production &amp; Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 375 M Manufacturing Engineering</td>
<td>3</td>
</tr>
<tr>
<td>Information System Elective</td>
<td>3</td>
</tr>
<tr>
<td>Engineering Science Elective</td>
<td>3</td>
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<tr>
<td>Communication Elective</td>
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<thead>
<tr>
<th>Semester 7</th>
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<tbody>
<tr>
<td>IM SE 421 Applied Statistics &amp; Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 428 Stochastic OR Models</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 440 Discrete Event Simulation</td>
<td>3</td>
</tr>
<tr>
<td>IM SE Elective I</td>
<td>3</td>
</tr>
<tr>
<td>IM SE Elective II</td>
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<table>
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<tr>
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<tr>
<td>ENGR 400 Professional Ethics</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 434 Facility Planning &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 450 Senior Engineering Project</td>
<td>3</td>
</tr>
<tr>
<td>IM SE Elective I</td>
<td>3</td>
</tr>
<tr>
<td>IM SE Elective II</td>
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<tr>
<td>Technical Electives</td>
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Total Credit Hours Required: 130

**IMSE Electives I**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>IM SE 405 Analysis of Engineering Management</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 406 Decision &amp; Risk Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 412 Occupational Safety - A System Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 415 Cognitive Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 416 Physical Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 417 Occupational Safety Hygiene Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 422 Industrial Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 476 M Manufacturing Information Systems</td>
<td>3</td>
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**IMSE Electives II**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IM SE 460 Packaging Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 470T Theory &amp; Practice of Materials Processing</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 471 Tool &amp; Die Design</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 475 M Manufacturing Systems I</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 477 Robotics</td>
<td>3</td>
</tr>
<tr>
<td>IM SE 483 Logistics in the Supply Chain</td>
<td>3</td>
</tr>
</tbody>
</table>

**Courses of Instruction (IMSE)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ES 201</td>
<td>Technology and Society (3 cr) Lec 3</td>
</tr>
<tr>
<td></td>
<td>Prereq: Sophomore standing; intended for students majoring in areas other than engineering and science. Understanding technology and its impact on society.</td>
</tr>
<tr>
<td>ES 206</td>
<td>Engineering Economy I (3 cr, I, II)</td>
</tr>
<tr>
<td></td>
<td>Prereq: Sophomore standing; credit toward the degree may be earned in only one of IM SE 206 or GES 252. Introduction to methods of economic comparisons of engineering alternatives; time value of money, depreciation, taxes, concepts of accounting, and activity-based costing.</td>
</tr>
<tr>
<td>IMSE 306</td>
<td>Engineering Economy II (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: Sophomore standing. Introduction to the design and economic evaluation of large engineering systems. Introduction to systems of economic analysis. Use of engineering economy in selecting among alternative engineering solutions.</td>
</tr>
<tr>
<td>IMSE 321</td>
<td>Engr Statistics &amp; Data Analysis (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: Sophomore standing. Introduction to the theory and methods of design and analysis of systems Problem formulation, estimation, description, modeling, information, simulation, and project implementation. Management, probability concepts, use of work design and measurement, and work measurement techniques.</td>
</tr>
<tr>
<td>IMSE 328</td>
<td>Deterministic Operations Research Models (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: IMSE 206 and IGEN 200, or parallel IM SE 250. Introduction to modeling a team-based project. Introduction to the theory and methods to design and analyze systems. Problem formulation, estimation, description, modeling, information, simulation, and project implementation. Management, probability concepts, use of work design and measurement, and work measurement techniques.</td>
</tr>
<tr>
<td>IMSE 334</td>
<td>Production &amp; Operations Management (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: Sophomore standing. Introduction to manufacturing history and an overview of manufacturing technologies and future trends (e.g., product design, semiconductor and electronics manufacturing, computer manufacturing, metal forming and machining, plastic injection molding, micro-machining, and biotechnology in manufacturing).</td>
</tr>
<tr>
<td>IMSE 412</td>
<td>Occupational Safety - A Systems Analysis (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: Junior standing and IM SE 206. Engineering safety management. Relationship of safety engineering to contract administration, purchasing, production, and marketing.</td>
</tr>
<tr>
<td>IMSE 416</td>
<td>Physical Ergonomics (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: IM SE 206 or permission. Human factors affecting work. Focus on human energy requirements, lighting, noise, monotony and fatigue, learning, simultaneous versus sequential tasks, Experimental evaluation of concepts.</td>
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<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ES 321</td>
<td>Electrical and Data Analysis (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: MATH 208. An applications-oriented course using statistical software for analysis of data. Topics include descriptive statistics, probability distributions, data manipulation, sampling, confidence intervals, tests of significance, and design of experiments.</td>
</tr>
<tr>
<td>ES 334</td>
<td>Deterministic Operations Research Models (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: IM SE 206 or permission. Introduction to modeling a team-based project. Introduction to the theory and methods to design and analyze systems. Problem formulation, estimation, description, modeling, information, simulation, and project implementation. Management, probability concepts, use of work design and measurement, and work measurement techniques.</td>
</tr>
<tr>
<td>IMSE 417</td>
<td>Cognitive Ergonomics (3 cr)</td>
</tr>
<tr>
<td>IMSE 418</td>
<td>Physical Ergonomics (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Lec 2, lab 3. Prereq: IM SE 416 or permission. Human factors affecting work. Focus on human energy requirements, lighting, noise, monotony and fatigue, learning, simultaneous versus sequential tasks, Experimental evaluation of concepts.</td>
</tr>
<tr>
<td>IMSE 450</td>
<td>Senior Project (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: Junior standing and IM SE 206. Engineering safety management. Relationship of safety engineering to contract administration, purchasing, production, and marketing.</td>
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<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ES 421</td>
<td>Applied Statistics &amp; Quality Control (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: IM SE 321. Systematic analysis of processes through the use of statistical analysis methods and procedures. Statistical process control, sampling, regression, ANOVA, quality control, and design of experiments. Use of software for performing a statistical analysis.</td>
</tr>
<tr>
<td>ES 422</td>
<td>Industrial Quality Control (3 cr)</td>
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<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ES 428</td>
<td>Stochastic Operations Research Models (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: IM SE 321. Introduction to decision-making techniques for understanding and predicting stochastic system behavior. Concepts of queueing analysis, dynamic programming, and reliability.</td>
</tr>
<tr>
<td>ES 434</td>
<td>Facility Planning and Design (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: IM SE 321. Design, analysis, and layout of facilities, queuing, material handling systems, material flow analysis, systematic layout planning, and design of warehouse facilities.</td>
</tr>
<tr>
<td>ES 480</td>
<td>Discrete Event Simulation Modeling (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: IM SE 206 and IM SE 321. Introduction to modeling simulation models of discrete systems. Simulation modeling techniques, random number generation, and output analysis.</td>
</tr>
<tr>
<td>ES 450</td>
<td>Senior Engineering Project (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: Junior standing and IM SE 315. Senior project. Design, analysis, and layout of facilities, queuing, material handling systems, material flow analysis, systematic layout planning, and design of warehouse facilities.</td>
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</tbody>
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<tr>
<th>Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ES 460</td>
<td>Packaging Engineering (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Prereq: IM SE 206, IM SE 321, EN GM 373. Introduction to packaging processes, materials, equipment and design. Container design, material handling, storage, packaging and environmental regulations, and material selection.</td>
</tr>
</tbody>
</table>

471/871. Tool and Die Design (3 cr) Prereq: IM SE 370. General consideration in tool designing, design of tool and workholders, forming machines and presston, tool application of computational and design of tool making in CNC machine tools.


477/877. Robotics (3 cr) Lec 2, Lab 3, Prereq: IM SE 375. Basic robotics technology, application in manufacturing, manipulators and mechanical design; programming languages, intelligence and control.


498/898. Laboratory Investigation (1-6 cr I, II, III) Prereq: Senior standing. Investigation and written report of research into a specific problem in any area of engineering or management systems engineering.

499H. Honors Thesis (1-3 cr) Prereq: Senior or junior standing, admission to the University Honors Program. Independent research project conducted under the guidance of a faculty member in the Department of Industrial and Management Systems Engineering. Research should contribute to the advancement of knowledge within the field. Written thesis and oral examination are required.

899. Masters Thesis (1-10 cr) Refer to the Graduate Bulletin for 900-level courses.

Department of Mechanical Engineering

Interim Chair: John P. Barton

Professors: Barton, Gogos, Lou, Reid, Robertson, Rohde, To

Associate Professors: Cole, Farrior, Schade, Shied, Szylkowski, Wang

Assistant Professors: N. elon, Wu, Zhang

Lecturers: C. Brown

The mission of the Department of Mechanical Engineering, University of Nebraska-Lincoln, is to provide quality educational programs for undergraduate and graduate students planning careers in mechanical engineering or allied fields to create and disseminate knowledge through research, publication, and other scholarly activities to engage in professional activities to promote the mechanical engineering profession, and to provide support to enhance the economic well-being of the State and the Nation.

Objectives. The undergraduate and graduate programs offered by the Department of Mechanical Engineering are intended to prepare students for successful careers and lifelong learning in mechanical engineering or allied fields in which the academic discipline serves an educational base. Specifically, the program objectives of the Department are:

• to attract, develop, and retain a dedicated and competent faculty capable of fulfilling the mission of the Department in teaching, research, and service;

• to maintain, update, and improve an undergraduate program which is designed to prepare graduates for successful careers and lifelong learning. The program should have a solid base of physical and natural sciences, mathematics, social sciences and humanities, and communications.

• to provide educational opportunities for off-campus students and practicing engineers through extended education;

• to create and disseminate knowledge through research, publication, and other scholarly activities;

• to engage in professional activities to promote the mechanical engineering profession.

Mechanical engineering is concerned with the design, construction, and operation of machinery and mechanical systems, including the design and realization of such systems.

• to provide educational opportunities for off-campus students and practicing engineers through extended education;

• to create and disseminate knowledge through research, publication, and other scholarly activities;

• to engage in professional activities to promote the mechanical engineering profession.

Requirements for the Degree of Bachelor of Science in Mechanical Engineering (Lincoln campus)

Semester 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 111 Chemistry for Engineering &amp; Technology</td>
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<tr>
<td>EN GR 010 Freshmen Engineering Seminar</td>
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<tr>
<td>MATH 106 Analytic Geometry &amp; Calculus</td>
<td>5</td>
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<tr>
<td>ENGR 010 Freshmen Engineering Seminar</td>
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Semester 2

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<tr>
<td>CSCE 150 Intro to Computer Programming for Scientists &amp; Engineers</td>
<td>3</td>
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<tr>
<td>MATH 107 Analytic Geometry &amp; Calculus</td>
<td>5</td>
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<tr>
<td>M.E. 130 Intro to CAD</td>
<td>2</td>
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Semester 3

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<td>ENGR 223 Engineering Statics</td>
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<td>ENGR 020 Sophomore Engineering Seminar</td>
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<td>IMSE 206 Engineering Economy</td>
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<td>JENG 200 Technical Communication</td>
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</tr>
<tr>
<td>ENGR 222 General Physics Lab</td>
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36. CHEM 109 and 110 may be substituted for CHEM 111. Only 4 credits count toward graduation.
37. Or, instead, PHYS/ASTR 222 General Physics Lab II (1 cr) may be taken in Semester 3.
Mechanical Engineering Design Elective 40
Humanity/Social Science Electives 6
Humanity/Social Science Elective 3
Mechanical Engineering Technical Elective 40
MECH 488 Kinematics & Machine Design Lab 2
MECH 420 Heat Transfer 3
MECH 370 Manufacturing Methods & Processes 3

Semester 7 Credits
MECH 370 Manufacturing Methods & Processes 3
MECH 420 Heat Transfer 3
MECH 488 Kinematics & Machine Design Lab 2
M 370 Mechanical Engineering Technical Elective 3
Humanity/Social Science Elective 3
MECH 380 Mechanical Engineering Maturity 3

Semester 8 Credits
M 400 Professional Ethics 1
MECH 447 Mechanical Engineering Design II 2
MECH 487 Thermal Fluids Lab 2
Humanity/Social Science Electives 3
MECH 380 Mechanical Engineering Design Elective 3
Senior Elective 3

Total Credit Hours Required: 128

Courses of Instruction

The courses available under the Department of Mechanical Engineering are listed below by area of specialization.

Mechanical Engineering (MECH)

100. Introduction to Mechanical Engineering (1 cr)
Overview of mechanical engineering. Introduction to problem formulation and development of basic skills required to solve mechanical engineering problems. Introduction to CAD (2 cr) I, II Lec, lab.

130. Introduction to CAD (2 cr, I, II) Lec, lab
Principles and accepted practices of geometric design. Computer generation of 2D and 3D models for mechanical systems. Introduction to engineering design practices such as specifications, dimensioning, and tolerancing.

ES 200. Engineering Thermodynamics (3 cr, I, II, III)
Prep: PHY 212 and ENG 223.
First and Second Laws of thermodynamics, properties of gases and vapors, Sources of energy and its conversion to work.

200H. Honors Engineering Thermodynamics (1 cr, I, II, III)
Prep: Good standing in the University Honors Program or by invitation; PHY 212, ENG 223.
First and Second Laws of thermodynamics, properties of gases and vapors. Sources of energy and its conversion to work. Honors students will be expected to study beyond the students in the normal sections and do a special project.

Applications of control-volume analysis (mass, energy, and momentum), both transient and steady, mixtures of gases and vapors, introduction to combustion, thermodynamic stability and establishment of database of thermophysical properties. Applications of computer-aided engineering to processes and cycles. Methodologies and case studies for thermal systems design; execution of small-scale design projects.

Prep: EN UN 325 and CIV 373. MATH 221 Parallel: MEE 200.
Fluid statics, equations of continuity, momentum, and energy; dimensional analysis and dynamic similarity. Applications to: flow meters; fluid pumps and turbines; viscous flow and lubrication; flow in closed conduits and open channels. Two-dimensional flow problems.


330. Mechanical Engineering Analysis (3 cr) Prep: MATH 221, CIV 150, EN UN 325 and 373; MEE 200. CIV 310.
Analysis of mechanical behavior of conceptually designed machinery. Selected topics from the areas of finite element methods, analytical solutions, and numerical simulations.

Analysis of the motions of linkage and cam mechanisms. Theoretical and practical aspects of mechanical design of linkages and cam mechanisms. Design of cam mechanisms and vibration problems.

[ES] 350. Elements of Machine Design (3 cr, I) Lec 3. Prep: EN UN 325 or 426; GEN 200 or 300; MECH 342; MEE 360; IMSE 321 or STAT 380 or parallel. Design of design elements in a variety of mechanical systems. The design process is illustrated by an example of a project on a factory machine. Emphasis is on the mechanical design of machines.

Introduction to the design of air conditioning systems. Comprehensive treatment of subjects of heat transfer and fluid mechanics. Applications of thermodynamic and fluid dynamic principles to the design of air conditioning systems; Comprehensive design project is an integral part of the course.

387. Power Plant Systems Design (3 cr) Prep: MECH 300 or equivalent.
Design and analysis of steam power plants concentrated on the design of the steam generating unit. Application of thermodynamic and fluid dynamic principles to the design of power plants. Comprehensive design project is an integral part of the course.

386. Air Conditioning Systems Design (3 cr) Lec 3. Prep: MECH 300 or equivalent.
Design and analysis of air conditioning systems. Comprehensive design project is an integral part of the course.


403. Internal Combustion Engines (3 cr) Lec 3. Prep: MECH 300 or equivalent.
Prereq: MECH 300 and 380; MECH 420/820 or parallel.


Development of design concepts. Introduction to synthesis techniques and mathematical analysis methods. Applications of these techniques to mechanical engineering design projects.

446. Mechanical Engineering Design II (3 cr I, II, III) Lec/2, rct 2; Prereq: M E C H 300, 310, 343, 350.

Synthesis, design, and a written report on two projects; plus a proposal for the students’ final design project in M E C H 447. The two projects should span the general areas of mechanical engineering design and development. Guest lectures by practicing designers will be a part of the class when appropriate.


Applications of control systems analysis and synthesis for mechanical engineering equipment. Control systems for pneumatic, hydraulic, kinematic, electromechanical, and thermal systems.


Introduction to digital measurement and control of mechanical systems. Applications of analysis and synthesis of discrete time systems.


Robots synthesize some aspects of human function by the use of mechanisms, sensors, actuators, and computers.


Introduction to basic mechanics governing automotive vehicle dynamics, braking, ride, handling, and stability. Analytical methods including computer simulation, in vehicle dynamics. The different components and subassemblies of a vehicle that influence vehicle dynamic performance.


Includes a comprehensive design project.

481/881. Introduction to Nuclear Engineering (3 cr) Lec 3. Prereq: MATH 221/222.

Introduction to nuclear physics, radiation interaction with matter, reactor fundamentals, the application of equipment and principles associated with reactor safety and operations.

487/887. Thermal Fluids Laboratory (2 cr I, II) Lab 4. Prereq: M E C H 300 and 380; M E C H 420/820 or parallel.

Design, execution, and evaluation of physical experiments in the areas of thermodynamics, fluid mechanics, and heat transfer.

488. Kinematics and Machine Design Laboratory (2 cr I, II) Lec 1, Lab 2. Prereq: M E C H 342 and 343; M E C H 380 or parallel.

Design projects and physical experiments in the area of machine design and kinematics.

498/898. Laboratory and Analytical Investigations (1-6 cr, max. 6 cr) Lec 1, Lab 1. Prereq: Senior standing in mechanical engineering; admission to the University Honors Program.

Honors thesis research project meeting the requirements of the University Honors Program. Independent research project executed under the guidance of a member of the faculty of the Department of Mechanical Engineering which contributes to the advancement of knowledge in the field. Culfmulates in the presentation of an honors thesis to the department and college.


999. Master’s Thesis (1-10 cr)

Refer to the Graduate Bulletin for 900-level courses.

Metalurgical Engineering (METL)

460. Elements of Materials Science (3 cr I, II) Lec 3. Prereq: C H E M 109 or 111; P H Y S Y 212; E N G M 223 or parallel.

Introduction to basic principles of materials science, including the microscopic properties of materials, chemical bonding, and crystallography.


Emphasis on the selection of materials for specific applications based on their properties and behavior in different environments.


Principles of alloying and their effects on the physical properties of metals. The effects of heat treatment on the microstructure and properties of metals.

466/866. Materials Selection for Mechanical Design (3 cr) Lec 2, Lab 2. Prereq: M E T L 360 and E N G M 325 or permission.

A selection procedure for the most suitable materials for each particular mechanical design. Introduction of materials selection charts and the concept of materials performance indices. Evaluating the suitability of materials for different mechanical designs.


Basic principles of powder metallurgy, including the fundamentals of powder production and the properties of metal powders.


The principles controlling the formation of the structure of engineering materials. Phase diagrams, diffusion, intermetallics, and solidification and diffusion transformations.


473/873. Corrosion (3 cr) Prereq: C H E M 109 or equivalent.

Fundamentals of corrosion engineering, underlining principles of corrosion control, and materials selection and environmental control.


U nit operations and processes utilizing in production of ferrous and non-ferrous metals. Examples of production techniques for metal bearing ores, scrap metals, and industrial waste. Control of impurities and the effects of alloying on the corrosion resistance of metals.

499/899. Laboratory and Analytical Investigation (1-6 cr, I, II, III)

Investigation and written report of research into specific problems in any major area of materials engineering.

*864. Thin Films and Surface Engineering (3 cr) Lec 3. Prereq: Graduate standing in engineering, physics, chemistry, or permission.


Refer to the Graduate Bulletin for 900-level courses.

Requirements for the Interdisciplinary Bachelor of Science Degree

All of the sections below, except Section F, should lie within the framework of one of the engineering degree programs described in the preceding pages. The student is encouraged to generally follow a regular engineering program for the first two years. The student should, however, work with his or her engineering adviser and an adviser in the interdisciplinary area in clarifying educational objectives.

A. 20 credits in calculus, differential equations, and statistics:

- MATH 106, 107, 208, 221, and IM SE 321 or 322
- STAT 380

B. 16 credits in science, including chemistry and physics with a two-course sequence in either chemistry or physics:

- CHEM 109, 110; PHYS 211, and elective
- CHEM 111, PHYS 212, 211, and elective

C. 10 credits in computer and/or communication skills:

- ENGR 400 (1 cr)
- JGEN 200 or 300 (3 cr)

D. 10 credits in the areas of mechanical engineering, electrical engineering, computer science, and mathematics:

- Computer Science elective (3-4 cr)
- Elective
- CSCE 105, 150, 155
- ALEC 102 or C O M M 109 or 311

E. 16 credits in engineering science courses including:

- Statics (3 cr)
- ENGM 223
Electrical Engineering elective w/lab (4 cr)
ELEC 211/231 or ELEC 233
Engineering Economy (3 cr)
IM 220
Engineering Science electives (6 cr)
E. 24 credits of engineering courses at the 300 (junior) level or above. Normally these courses should be concentrated in one discipline but may be taken in various areas when justified. These areas are agricultural, biological, ecological systems, chemical, civil, computer, electrical, industrial, and mechanical engineering, and engineering mechanics.
F. 24 credits concentrated in a secondary (disciplinary) area, giving a reasonable background for advanced work in that field. These courses are generally to be chosen from non-engineering fields. Any engineering course applied to this requirement must be applicable to the objectives of the secondary area. If these courses include more than 9 credits of engineering courses, approval must be obtained from the advisory committee.
G. 18 credits in humanities/social science courses
Total Credit Hours Required: 128
*Sections F and G must include three IS courses with one at the 400 level.

This program does not provide the depth of engineering study associated with accredited engineering degrees. It is normally not intended as a basis for professional engineering practice or graduate study in engineering. Students in the Interdisciplinary Program must apply and be admitted to the degree program by the department in which they plan to take their major course work in section E above.

In the second semester, the AE student begins the first of a four-course sequence of courses in architecture. The purpose of these courses is to familiarize the engineering student with the thought and design process of architects and to develop an appreciation of the architectural features of buildings. This exposure to architecture is an important part of the student's education. It develops creativity and gives the AE graduate a unique ability to work effectively with their professional colleagues in architecture. The intent of the AE program is to develop both breadth and depth of knowledge in building systems. This is done by requiring the students to have a good understanding of all the systems that make up a building while also giving them a specialized education in their chosen option areas. The breadth is provided in the 5th and 6th semesters, with all students taking courses in each of the areas of specialization. The depth is provided in the 7th and 8th semesters, where the students concentrate in one of the option areas.

The final year of the AE program features a senior design project. The project requires the student to practice all the design skills and understanding of building systems developed throughout the program. Students will work in teams to complete a significant building design in a manner which closely simulates professional practice.

The AE undergraduate program is followed by an integrated 36-credit-hour master of architectural engineering (MAE) degree. In the MAE program, students deepen their knowledge of the field of specialization they chose in the undergraduate program.

Career Opportunities: Architectural engineering graduates normally enter the building design industry and become registered professional engineers. There are only fourteen architectural engineering schools in the country, so there is a large unsatisfied demand for engineers educated in building design. This is especially true in Nebraska, the home of several large architectural engineering design firms.

Pre-Architectural Engineering on the Lincoln Campus: Most of the courses in the first two years of architectural engineering are common to other engineering programs and are offered on both the Lincoln and the Omaha campuses. Students are encouraged to complete their program of study in Omaha but can arrange their programs of study so that they can spend the first two years of architectural engineering program on the Lincoln campus. Those wishing to do so should consult the architectural engineering curriculum in the Undergraduate Bulletin, and should consult with the program director, Dr. Waters, by phone at (402) 554-4958, or by email at cwaters@unl.edu.

Please consult the University of Nebraska at Omaha Catalog or www.unomaha.edu/ for curriculum details.

Pre-Architectural Engineering

Semester 1 Credits
ARCH 106 Intro to Design ...........................................4
CHEM 109 General Chemistry I and Lab ......................4
CIV E 112 Intro to Civil Engineering ...........................3
COMM 209 Intro to Public Speaking ............................3
MATH 106 Calculus I .............................................5
MECH 130 Intro to CAD .........................................2

Semester 2 Credits
CSCE 105 Intro to Problems with Computers ...............4
MATH 107 Calculus II ...........................................5
PHYS 211 General Physics I .....................................4
PHYS 221 General Physics I Lab ..............................1
PSY 181 Intro to Psychology ...................................1

Semester 3 Credits
ECON 212 Microeconomics ....................................3
ENGM 223 Statics ..................................................3
ELEC 211 Elements of Electrical Engineering ..............3
MATH 208 Calculus III ..........................................3
PHYS 212 General Physics II ..................................4
PHYS 222 General Physics II Lab ..............................1

Semester 4 Credits
ENGM 325 Mechanics of Elastic Bodies .......................3
ENGM 373 Engineering Dynamics ................................3
MATH 221 Differential Equations for Engrs ...............3
MECH 200 Engineering Thermodynamics .................1
MECH 380 Statics & Applications ..........................3

Chris 5-8 completed at the University of Nebraska at Omaha. Other UNL courses that may be used in the Architectural Engineering Program at the University of Nebraska at Omaha are:

CIVE 341, 441
GEN 200 or 300
MECH 310

Department of Civil Engineering

Chair: Mohamed F. Dahab
Associate Chairs: Bruce Dvorak, John Stansbury
Professors: Azizimani, Benak, Bogardi, Dahab, Moore, Nowak, Riette, Rosas, Sickling, Tadros
Associate Professors: Admiral, Dvorak, Jones, Khatib, Krause, Mousavi, Rohde, Stansbury, Tuan, Zhang
Assistant Professors: Bartett-Hunt, Guo, Kim

The Department of Civil Engineering offers a complete undergraduate program on both the Omaha and Lincoln campuses. Courses offered in the department are identical on the two campuses. Those courses outside the department are very similar. See "Department of Civil Engineering" on page 296 under the Lincoln Campus section for descriptions, or consult the University of Nebraska at Omaha Catalog for curriculum details.

Department of Computer and Electronics Engineering

Chair: Bing Chen
Professors: Chen, Sedlacek, Sharif
Associate Professors: Nguyen, Sash
Assistant Professors: Yang, Liu, Peng
Senior Lecturers: D'Ellof, Gilmore

The mission of the Department of Computer and Electronics Engineering (CEEN) at the University of Nebraska at Omaha is to develop and maintain programs of excellence in teaching and research which meet the educational needs of its constituents, which will...
support the state of Nebraska in its development as a leading center for high-technology computer/electronic/telecommunications industry which will support national needs for well educated computer and electronics engineering professionals. To fulfill this mission, the department offers the degrees of bachelor of science in computer engineering and bachelor of science in electronics engineering as well as several graduate programs. The faculty takes pride in its high level of interaction with both undergraduate and graduate students.

Two engineering majors are offered in the Department of Computer and Electronics Engineering. They are computer engineering and electronics engineering. Job opportunities for both majors are available in industry, public agencies, consulting, and private practice.

### Computer Engineering

The CEEN department's Program Educational Objectives for the computer engineering program are that our graduates will be prepared to:

- Be employed in industries doing design with microprocessors/embedded systems
- Digital design
- Hardware/Software integration
- Computer architecture and parallel processing
- Function on teams with multidisciplinary aspects
- Participate in lifelong learning
- Exhibit competency in written and oral communications
- Continue their formal education in graduate programs
- Have an ethical approach to engineering practice.

These program educational objectives have been developed with input from the educational objectives constituency group consisting of employers (including the CEEN Industry Advisory Board), graduates of the program and faculty of the department. The 133 credit-hour program in computer engineering leads to the bachelor of science degree in electronics engineering. Twenty hours of mathematics, 9 hours of physics, and 3 hours of mathematics or physical science electives complement the required 58 hours of work in the electronics engineering area. Nine hours in written and oral communications, 18 hours in the humanities and social sciences, and 16 hours of technical and free electives provide the opportunity for the student to acquire a general educational background and gain the cultural attributes associated with a university education.

### Electronics Engineering

The CEEN department's Program Educational Objectives for the electronics engineering program are that our graduates will be prepared to:

- Be employed in industries doing work in one or more of the following areas:
  - Communication systems
  - Telecommunication networks
  - Analog, digital and microprocessor systems
  - Hardware/Software integration
  - Exhibit competency in written and oral communications
  - Function on teams with multidisciplinary aspects
  - Understand the social environment in which electronics engineering is responsibly and ethically practiced and the lifelong requirements of continued learning demanded by the profession.

These program educational objectives have been developed with input from the educational objectives constituency group consisting of employers (including the CEEN Industry Advisory Board), graduates of the program and faculty of the department. The 133 credit-hour program in electronics engineering leads to the bachelor of science degree in electronics engineering. Twenty hours of mathematics, 9 hours of physics, and 3 hours of mathematics or physical science electives complement the required 58 hours of work in the electronics engineering area. Nine hours in written and oral communications, 18 hours in the humanities and social sciences, and 16 hours of technical and free electives provide the opportunity for the student to acquire a general educational background and gain the cultural attributes associated with a university education.

### General Requirements

The following sections apply to both the computer engineering program and the electronics engineering program.

**Advisement.** Upon entry into the curriculum, each student will be assigned a faculty academic adviser. It is required that the student meet with the adviser prior to each class registration period and that all courses to be applied toward the degree be selected with the advice and approval of the adviser.

Students are expected to have their academic records reviewed and to obtain approval from the Department prior to application to the University registrar for award of the degree in order to ensure that all curricular requirements will be satisfied by the time of intended graduation.

**Electives.** Computer engineering and electronics engineering courses which are described in the catalog are not shown as requirements in the semester sequences are offered as the need arises to provide co-interest areas wherein the students may broaden their background in the applications of computer engineering or electronics engineering. In addition, appropriate specified technical electives will be selected to augment the student's particular area of interest. The applicability of transfer course work with engineering content toward credit in the curriculum is determined on a case-by-case basis by the Department.

The credit hours in the curriculum designated as free electives are those courses that the student may choose to enhance personal objectives in his/her academic plan. Free electives must be selected with the approval of his/her departmental adviser and may not duplicate the content of curricular requirements nor be of a remedial nature.

### Curriculum

Because of the rapid developments in the fields of computer engineering and electronics engineering, the curricular requirements are continually reviewed and upgraded to reflect technological advances. Contact the department for information on any changes that are currently in effect but not listed in this bulletin. Currently enrolled students are expected to modify their programs to take advantage of such revisions. Students who do not maintain continuous progress toward the degree through enrollment in applicable coursework will be considered as new students upon reentering the computer or electronics engineering curriculum sequence and will be subject to the requirements of the curriculum current at the time of their reentry. Certain courses may not be valid as prerequisites or as credit toward the degree after two academic years. The student's academic adviser should be consulted regarding applicability.

The Department maintains a high standard of excellence in meeting its objective of providing the student with extensive experience in the fields of computer engineering and electronics engineering. The development of both computer hardware and software and the knowledge of the interrelationship of these areas is enhanced through the use of laboratory equipment. All coursework must be of C grade level or higher to be credited toward graduation requirements or to be valid as prerequisites for another course. The applicable University bulletin is always current because the areas of humanities and social sciences to insure that such enrollments satisfy the campus general education requirements.

### Senior Thesis

The capstone senior thesis requirement provides a unique and challenging opportunity for the undergraduate student to demonstrate his/her ability to apply the knowledge gained in the course work sequence to the planning, design, execution, testing, and reporting of a significant project in the applications of engineering principles. The initiative and responsibility expected of the student executing the senior thesis parallels those of the employer of the program graduate. After faculty approval of the thesis topic, each student is assigned to a faculty Senior Thesis Adviser who will supervise the execution of the work.
Special Interest Areas. Opportunities are provided for the development of areas of special interest through enrollment in the Individual Study in Computer and Electronics Engineering courses which are offered at the freshman through senior level for the student who may wish to develop a topic under the guidance of a department faculty member. Enrollment is by permission after the department chair has approved a written proposal. Special Topics in Computer and Electronics Engineering offered by the Department as the need arises to cover topics needing emphasis as a result of the rapidly developing field of computer engineering and electronics engineering. Academic advisers should be consulted regarding the particular topics to be covered and the necessary prerequisites for each offering of this course.

Students who expect to continue their education at the graduate level after the award of the baccalaureate degree should consult their adviser regarding course selections that would enhance that objective.

Students are encouraged to develop their professional and leadership potential through participation in student chapters of related professional organizations and in University extracurricular activities. Participation in the University Honors Program is encouraged for those who qualify.

Please consult the University of Nebraska Omaha undergraduate Catalog or www.ceen.unomaha.edu for curriculum details.

Construction Systems

Program Director: James Geerdt
Professors: Foster, Sires
Associate Professors: Bonsell, Geerdt, Haggin, Holmes, Schwer
Assistant Professors: Bernstein, Cho, Mocorad, Pedersen
Senior Lecturer: Brenneman

Construction Degrees

The Charles W. Durham School of Architectural Engineering and Construction offers the student a full range of professional opportunities in the construction industry from construction engineering to construction management. These two degree options are described in further detail below. Additional information is available at www.const.unomaha.edu.

Courses of Instruction (CONE)

CF 096. Professional Practice (0 cr) (UNL, UNO) Prereq: Senior standing. CONE 096 is required of CONE majors prior to graduation. The work experience must be pre-approved by the faculty adviser in the CONE department. Work experience in a construction related work area.

103. Introduction to Construction Engineering (1 cr) (UNL, UNO) Lec. 1.

Introduction to the organization and terminology of construction engineering. Review of technical and management skills required to succeed in the construction engineering profession.

221. Construction Business Methods (3 cr) (UNL, UNO) Lec. 2. CONE 221. Business concepts and practices used by construction contractors. The construction industry, management principles, forms of business ownership, construction contracts, estimating and bidding, business ethics, bonds and insurance, financial statements, cost accounting, equipment management, planning and scheduling, labor relations and personnel management.


416. Wood and/or Composite Materials Design (3 cr) (CONE 316) Lec. Prereq: CIVE 341. Design of structural timber, beams, columns, and connections. Introduction to applicable design philosophies and codes. OInewer of materials design. MDF, plywood, laminated wood, and contemporary materials such as plastics and fiber reinforced systems and composite material groupings. Design considerations of cost and construction analysis.


450. 550. Sustainable Construction (3 cr) (CONE 450) Lec. 3. Prereq: Senior standing. Sustainable construction and its application to the green building industry. LEED certification process, sustainable building site management, efficient waste water applications, optimizing energy performance, indoor environmental issues, performance measurement and verification, recycled content and certified renewable materials.

466/466. Heavy and/or Civil Engineering (3 cr) (CONE 466) Lec. 3. Prereq: CIVE 334/341. Estimating techniques and strategies for heavy and/or civil construction. Estimation of materials, equipment and labor costs, unit production rates, and overhead cost and allocating, estimating hardware, and government contracts.

476. Project Budgets and Controls (3 cr) (CONE 476) Lec. 3. Prereq: CIVT 341. Cost and contract management. Development of a final report that presents the study results in a form useful to engineering management. Individual research on a selected technical, structural, material or management problem in construction.

Construction Engineering

The construction engineering major integrates engineering, construction, and management courses. This program is designed for persons fulfilling the construction industry's need for licensed professional engineers. It represents a unique management program, but provides a greater emphasis on engineering, scientific, and technical courses so that requirements for licensure are met. The courses in construction engineering focus on the application of engineering principles to solve real-world problems, with an emphasis on management.

Under the stimulus of increasing demand for its services globally, the construction industry has expanded its technological capabilities pertaining to physical and informational systems. This demand gives the construction engineering graduate an unprecedented number of opportunities for employment and for pursuing an advanced degree.

Construction engineers participate in the preparation of engineering and architectural plans and specifications which they translate into finished projects such as buildings, bridges, roads, highways, power plants, or other constructed facilities. These projects involve thousands of details shared by a team of owners, architects, engineers, general contractors, specialty contractors, manufacturers, material suppliers, equipment distributors, regulatory bodies and agencies, labor, resources, and numerous others. The construction engineer assumes responsibility for delivery of the completed project at a specified time and cost and also accepts associated legal, financial, and management obligations. Because of the broad scope of the construction engineer's project responsibility, he must assure the project's ability to be constructed as well as its ability to be operated and sustained.

The construction engineering student is required to enroll into a predetermined set of courses specifically designed for general construction education. Each student selects with the approval of his/her adviser, a set of approved electives. The program outlined below leads to the bachelor of science degree in engineering.
construction engineering. In addition to the required classroom work, each new and transfer student must complete a minimum of 1,000 hours of professional practice during their enrollment in the program. These hours are monitored by the student's assigned program adviser.

Bachelor of Science in Construction Engineering (131 credits)

Construction Management (CNST)

Construction is the largest and most diversified industry in the country, accounting for approximately 10 percent of the gross national product. The key professional in this vast enterprise is the "constructor", a term given to the leaders and managers in the construction industry, having the responsibility for planning, scheduling, and building the projects designed by architects and engineers. These highly specialized efforts are indispensable in meeting the country's growing need for new structures and environmental control projects.

Construction firms vary in size from large corporations to small proprietorships and partnerships. These are often classified according to the kind of construction work they do: general contractors, heavy and highway contractors, specialty contractors including mechanical and electrical, and residential builders and developers. Many firms engage in more than one category of work. Some larger companies incorporate the architectural and engineering design functions as part of their activity as a design/build firm. Collectively, constructors build our entire man-made environment—buildings for housing, commerce, industry, and government; transportation services including highways, railroads, waterways, and airports; municipal service facilities and utilities, such as power plants and energy distribution systems; military bases and space center complexes. Thus the construction management field is broad and challenging, requiring a unique educational background for its professional practitioners.

Although the range of construction activities appears wide and diverse, the general educational requirements for construction management are universal regardless of a particular firm's area of specialization. Since construction is primarily a business enterprise, the graduate must have a sound background in business management and administration areas, as well as an understanding of the fundamentals of architecture and engineering as they relate to the project design itself as well as to the actual construction process in the field. Professional expertise lies in the fields of construction science, methods, and management. A working knowledge of structural design, mechanical and electrical systems, soil mass behavior, and construction equipment is also essential.

The construction management curriculum embraces a course of study in specifications, contractual agreements, labor relations, personnel management, materials methods, and work analysis techniques. Technical and humanity electives provide for a well-rounded education that leads to a challenging career in the construction industry.

Construction Engineering Technology (CET)

The Omaha Campus based program in Construction Engineering Technology is being eliminated. Please see the Web site for details, www.const.unomaha.edu.

Fire Protection Technology (FPT)

Program

The 66-semester-hour program leads to the associate degree in fire protection technology. It prepares individuals for those positions directly related to industrial and municipal fire protection.

The program is jointly administered by the UNL College of Engineering and the UNL Extended Education and Outreach.

Courses in the program are intended for professional and volunteer fire-fighters, as well as other individuals involved with fire protection, hazardous materials management, and insurance investigation. Please consult the University of Nebraska at Omaha Undergraduate Catalog or www.const.unomaha.edu for details.
Hixson-Lied College of Fine and Performing Arts

Giacomo M. Oliva, Ed.D., Dean and Professor of Music
Robert A. Fought, Ed.D., Associate Dean and Professor of Music
Sara Fedderson, Advising Coordinator
Faye Kopke, Admissions Coordinator

About the College

The Hixson-Lied College of Fine and Performing Arts is comprised of the Department of Art and Art History, the School of Music including the Dance Division, the Johnny Carson School of Theatre and Film, and the Mary Riepma Ross Media Arts Center. In addition, the Great Plains Art Collection, the Lentz Center for Asian Culture, the Lied Center for the Performing Arts, and the Sheldon Memorial Art Gallery are affiliated with the College.

The College offers a wide range of degrees: the bachelor of arts, the bachelor of fine arts, the bachelor of music, and the bachelor of music education. The programs in the College provide students with both a general liberal education, as well as specialized training in their chosen field. Many of the degrees offered by the College are professionally oriented, and prepare students to enter an occupation directly or to attend graduate or professional schools. Students may major in art, art history, music, music education, theatre arts, or dance.

Each of the academic units in the Hixson-Lied College of Fine and Performing Arts is accredited by the national accrediting organization in the field: the National Association of Schools of Art and Design, the National Association of Schools of Music, and the National Association of Schools of Theatre.

The Hixson-Lied College of Fine and Performing Arts is committed to facilitating the interaction between the many arts entities on campus and to providing students with high quality education and many opportunities to participate in cultural activities.

Mission

The College nurtures creative, artistic activity and scholarship; educates students to a high level of accomplishment as artists, teachers, and scholars and enriches the education of all students through the study and practice of the arts. The College provides the citizens of Nebraska with opportunities to enjoy, appreciate, and participate in the arts through outreach programs. Through its creative activity, research, and exhibitions it contributes to the arts nationally and internationally. In fulfillment of its mission, the College:

- provides comprehensive educational programs of study in the arts at the undergraduate and graduate levels.
- fosters creative activity and scholarly research in the arts.
- provides professional preparation for artists, historians, theorists, and arts educators.
- sustains a strong commitment to liberal education for all UNL students through its course offerings and special programs.
- provides opportunities for the performance, collection, preservation, publication, and exhibition of important works.
- develops supportive and knowledgeable audiences and patrons for the arts.
- maintains a strong interdisciplinary and continuing education emphasis by creating comprehensive cultural and educational opportunities.
- supports and contributes to collaborative multicultural and intercultural programs.
- serves the entire state and region as an important artistic and cultural resource through its exhibitions, performances, and educational outreach programs.
- provides leadership for the understanding and development of the arts in the state and nation.

Academic Advising and Chief Advisers

Primary academic advising for students in the Hixson-Lied College of Fine and Performing Arts is provided by the student's home department or school. A faculty adviser is assigned by the department or school to help students plan their academic careers and select appropriate courses. Incoming freshmen are counseled during New Student Enrollment by specially trained advisers. Students are responsible for meeting with their academic advisers on a regular basis so that timely and appropriate courses can be received. Students should contact their department or school office for more information on advising policies and procedures. The Dean's Office is also available upon referral, but the department or school is the principal source for advising information.
Students wishing to include credits transferred from another institution in their program of study must submit a transcript to the Office of Admissions. The Dean’s Office will complete an evaluation of Transfer Credit form upon receipt of a copy sent to Transfer from the Office of Admissions. Copies of the evaluation of Transfer Credit are distributed to the student, the student’s advising file in his or her home department or school, and the Office of Registration and Records. Students who have previously transferred credits evaluated in another UNL college must have the credits reevaluated upon entering the Hixson-Lied College of Fine and Performing Arts.

The applicability of transfer credits toward major requirements is determined by the department or school offering the major. Students who wish to apply transfer credits toward major requirements or who wish to request any waiver or substitution of requirements must complete a Request for Waiver or Substitution form. The Request for Waiver or Substitution must first be approved by the appropriate Chief Adviser (listed below) and department chair, before being forwarded to the Dean’s Office for final approval. Requests for waivers or substitutions involving courses not offered by the student’s home department or school must have the approval (on the Request for Waiver or Substitution form) of the appropriate UNL department.

Honors Program

The Hixson-Lied College of Fine and Performing Arts encourages qualified students to participate in the University Honors Program. As far as their plans and programs permit, these students are enrolled in the special sections for superior students. In addition, departments in the Hixson-Lied College of Fine and Performing Arts offer special honors sections of regular freshman courses to meet the needs of students with superior preparation in those subjects.

Dean’s Award for Academic Excellence

This award is presented annually in the spring to the graduating student from the three graduation (May, August, and December) of the previous calendar year who has achieved the highest level of scholarly performance while in the Hixson-Lied College of Fine and Performing Arts. The award is based on the final cumulative grade point average at graduation. In the event of a tie, other factors will be taken into consideration. It is expected that the last 48 hours of the student's work will have been completed in the Hixson-Lied College of Fine and Performing Arts.

Dean's List

The College recognizes students for academic achievement during the fall and spring semesters by placement on the College Dean’s List. To qualify for the Dean’s List, a student must complete 12 graded hours by the time of the first grade reports and attain a minimum semester grade point average of 3.7. The following do not qualify as part of the 12 credit hours: Pass/No Pass credit, transfer hours, removals of incompletes, and grade changes submitted after the census. Music education students are not eligible for the Dean’s List during the semester in which they are enrolled in M U E D 497 (Student Teaching).

Degrees with Distinction

In recognition of outstanding academic excellence, the College grants the bachelors degree with the designation of High Distinction, with High Distinction, and with High Distinction to qualified students. The College Academic Distinction and Awards Committee determines the level of distinction. To be recommended for distinction, candidates must fulfill the specific criteria for Highest Distinction, High Distinction, or Distinction, as described below, in all of the general criteria and procedures applicable to all distinction classifications. The thesis project must be acceptable to the College Committee as well as the departmental committee.

Highest Distinction. Candidates for the bachelors degree may be awarded Highest Distinction based on the following criteria: outstanding scholastic standing (a cumulative GPA above 3.9 as of the semester preceding graduation), or 2) by achieving excellent scholarly standing (a cumulative GPA above 3.8 as of the semester preceding graduation) and a thesis project of high quality.

Distinction. Candidates for the bachelors degree may be awarded Distinction by achieving one of two sets of criteria: 1) by excellent scholastic standing (a cumulative GPA above 3.5 as of the semester preceding graduation); or 2) by achieving high scholastic standing (a cumulative GPA of 3.5); or 3) by a GPA above the cut-off point and still not receive a recommendation for distinction. Also, graduation with any level of distinction is not automatic with the submission of a thesis project (a requirement for a degree with Honors, and an option for degrees with Highest Distinction or with Distinction). It does, however, make a student eligible to be considered for graduation with such honors.

Thesis Project. The thesis project should be substantially more extensive than a term paper. It must be the result of independent, sustained thought, and intellectual curiosity. A survey of the literature about a particular topic is not sufficient. All of the following elements are required: 1) a clear formulation of a problem or a project; 2) a scholarly study which illuminates it; and 3) a conclusion supported by evidence. A bibliography and reference to existing literature in the field should be included where appropriate. An abstract consisting of no more than one page must be included at the front of the thesis. Students are encouraged to write in a manner and style that can be understood by a non-specialist in the field. The thesis project must be acceptable to the College Committee as well as the departmental committee.

Procedure: Students who elect to work on a thesis project must make arrangements before their senior year by consulting with a faculty member who will supervise the project. The student must register for an independent study...
course in their major area of study (399/399H or 499/499H) before proceeding with the preparation of the independent work. The thesis Project Registration must be completed, with signatures and filed in the Dean's Office (102 N e le. Cochrane Woods) by the end of the first week of classes of the semester of graduation. Two faculty members must report to the Committee on the thesis work. The Thesis Projects and two separate faculty evaluations must be submitted to the Dean's Office five weeks before the commencement exercises. Specific deadlines for each term are indicated on the Registration and Evaluation forms. Materials submitted after the stated deadlines will not be considered by the Academic Directors and the Committee.

In general, every thesis project is reviewed by the Committee. However, if no member of the Committee feels qualified in the subject area of the thesis project submitted, the Committee solicits the help of another faculty member with an appropriate background. This outside reader submits a report and conclusions to the Committee. A formal written evaluation. Even so, members of the Committee must depend heavily on the faculty evaluations. Students in the UNL Honors Program may submit an Honors Thesis, providing all of the above requirements and deadlines are met. Students who wish to be recommended for distinction on the basis of a thesis alone must have grade averages above 3.5.

International Opportunities

Students in the Hixson-Lied College of Fine and Performing Arts are encouraged to pursue opportunities to study abroad. Students wishing to do so should consult with their major advisors to explore possible programs of study and to determine the applicability of course work and the process for transferring credits.

Admission to the Hixson-Lied College of Fine and Performing Arts

Requirements for admission to the Hixson-Lied College of Fine and Performing Arts are consistent with general University admission requirements (one unit equals one high school year): 4 units of English, 4 units of mathematics, 3 units of natural sciences, 3 units of social studies, and 2 units of foreign language. Students may have no more than two deficiencies. Those who have more than two deficiencies must take steps to remove the deficiencies before being admitted to the College. The following performance standards must also be met: test score (ACT composite of 22 or higher or combined SAT score of 1050 or higher) for freshmen or 101 in one foreign language. However, based on results of the Foreign Language Placement Exam, a student may be able to remove the deficiency by completing 102 only.

Transfer Students

To be considered for admission, a transfer student must have had at least 12 credit hours of college study with a cumulative GPA of 2.5 (on a 4.0 scale) and a minimum GPA of 2.0 during the last term of record at the time of application. Transfer students who have completed less than 12 credit hours of college study must submit either the ACT or SAT scores. Ordinarily, hours earned at an accredited college are accepted by the University. The College, however, will evaluate all hours submitted on an application for transfer and reserves the right to accept or reject any of them. The maximum number of hours the University will accept from a two-year college is 66. All transfer students must complete the University Residency Requirement (see “Residency Requirement and Correspondence Courses” on page 321), and at least 9 hours in the major field must be completed at the University regardless of the number of hours transferred.

The Hixson-Lied College of Fine and Performing Arts will accept no more than 15 semester hours of D grades from other schools. All grades may be transferred from UNO or UNK. However, transfer courses within a student’s major or minor will be evaluated by that unit and held to the same minimum grade standards as courses taken at UNL.

Department of Art and Art History

Transfer Credit Policy

BFA - At least 36 credit hours in studio art and 9 credit hours in art history of the required BFA courses must be taken at UNL. Courses taken at other academic institutions may be substituted for the remaining required courses subject to evaluation by the department.

BA in Studio Art - At least 12 credit hours in studio art and 9 credit hours in art history of the required BA courses must be taken at UNL. Courses taken at other academic institutions may be substituted for the remaining required courses subject to evaluation by the department.

BA in Art History - At least 18 credit hours of the required art history courses must be taken at UNL. Courses taken at other academic institutions may be substituted for the remaining required courses subject to evaluation by the department.

School of Music Transfer Credit Policy

The following will be used by advisers as guidelines for the evaluation of transfer credits which are less than five years old:

• If a transfer student has successfully completed (grade C or above) approved transfer credits which are equivalent to UNL area requirements in terms of number of credit hours and scope of content, that area will be considered completed at the discretion of the chief degree program adviser.

• For approved transfer credits which are lacking equivalency in either number of credit hours, scope of content, or grade received to UNL area requirements in applied music, music theory, sight singing,ural skills, and keyboard skills, the number of transfer credits accepted and placement in the UNL area will be determined by audition/proficiency tests administered by designated area faculty.

• For approved transfer credits which are lacking equivalency in other music areas (history and ensembles), the number of transfer credits accepted will be determined by the chief degree program adviser.

All music course work which is more than five years old must be validated by an audition or competency examination given by designated area faculty.

Johnny Carson School of Theatre and Film Transfer Credit Policy

There are no additional restrictions regarding transfer credit.

Transfer Credit from Foreign Institutions

Credit for courses taken at foreign universities and colleges will be transferred only after validation by the appropriate department. This evaluation may include examination of the student subject matter studied at the foreign institution. Normally credit is not given for pre-university work. In some instances, however, it may be possible to receive credit through satisfactory examination.

The College will accept no more than 15 semester hours of D grades from other schools. The D grades cannot be applied toward requirements in a major.

International Baccalaureate Credit

Students who have studied art, music, or theatre within the International Baccalaureate Program will be given credit for courses at UNL according to the guidelines established by each academic unit. Contact the department office for specific course information.
College Academic Policies

Class Standing

Sophomore Standing. For admission to sophomore standing a student must have completed all of the College entrance requirements and attained a total grade point average of at least 2.0.

Junior Standing. A student has junior standing after meeting the requirements for sophomore standing and completing 53 semester hours of credit.

Senior Standing. A student has senior standing after meeting the requirements for junior standing and completing 89 semester hours of credit.

Pass/No Pass Privilege

University regulations for the Pass/No Pass privilege state: The Pass/No Pass option is designed to be used by a student seeking to expand his/her intellectual horizons by taking courses in areas where he/she may have minimum preparation without adversely affecting his/her grade point average.

1. Neither the P nor the N grade contribute to a student’s GPA.
2. P is interpreted to mean C or above. Some professional education courses require a C+ or above.
3. A change to or from Pass/No Pass may be made until mid-term (1/2 of the course.) This date coincides with the final date to drop a course without the instructor’s approval.
4. The Pass/No Pass or grade registration cannot conflict with the professor’s department’s college, or university policy governing grading option.
5. Prior to the mid-term deadline, changing to or from the Pass/No Pass requires using the N Roll system to change the grading option or filing a Drop/ Add form with the Registrar Office, Service Counter 17A, Canfield Administration Building. After the mid-term deadline, a student registered for Pass/No Pass cannot change to a grade registration unless the Pass/No Pass registration is in conflict with a professor’s department’s college, or university policy governing Pass/No Pass.
6. The Pass/No Pass grading option is not available to students on academic probation unless the course is offered only on a Pass/No Pass basis.
7. For undergraduates, the university maximum of 24 pass credit hours and/or college and department limits will apply. These limits do not include courses only offered on a Pass/No Pass basis.
8. The Pass/No Pass grading option cannot be used for the removal of C- or D or F grades.

Applications of Essential Studies and Integrative Studies requirements up to the 24-hour maximum.

1. Freshmen and sophomores may enroll for no more than 6 hours of Pass/No Pass work per semester.
2. Students may elect to take courses on a Pass/No Pass basis to fulfill degree requirements in the major. Up to 6 hours of Pass/No Pass may be taken in the Plan A minor or each of two Plan B minors.
3. Departments may specify that certain courses can be taken only on a Pass/No Pass basis.
4. The College will permit no more than a total of 24 semester hours of Pass/No Pass grades to be applied toward degree requirements. This total includes all “pass” grades earned at UNL and other schools.

Individual departments vary in their policies regarding Pass/No Pass hours as applied to the major and minor. Consult the individual department listings for these policies. Students who wish to apply Pass/No Pass hours to their major and minor(s) must obtain approval on a form that is available in the Dean’s Office, 102 N elle Cochrane Woods.

Credit by Examination

Through study or experience that parallels a University of Nebraska-Lincoln course, a regularly enrolled university student may feel prepared to pass an examination on the course content of a specific course for credit in that course. To apply for credit, a student should:

1. Consult with the Department Chair.
2. Obtain a Credit by Examination Form at the Records Office, 107B Canfield Administration Building, 472-3649. Current enrollment in the University must also be verified.
3. Secure the approval signature from the Department Chair, instructor, and the Dean of the student’s college.
4. Secure the bursar’s receipt for payment of the appropriate fee per course for Credit by Examination. Currently, the fee is one-half of the student’s tuition rate.
5. Present the completed form to the instructor designated by the Department Chair. The instructor will give the examination and report the results on the Credit by Examination Form to the Records Office, 107B Canfield Administration Building, 472-3636.

Examination for credit through UNL departments may be taken only by currently enrolled students. A student is not permitted to receive credit by Examination in a course which is a prerequisite for a course already taken unless the course and its prerequisites cover essentially different subject matter.

The Hixson-Lied College of Fine and Performing Arts also gives credit for the subject and general examinations of the College Level Examination Program and the Advanced Placement Program administered by the College Entrance Examination Board. See the Dean’s Office, 102 N elle Cochrane Woods for current policy regarding CLEP and AP examinations.

Grading Appeals

A student who feels that he/she has been unfairly graded may take the following sequential steps:

1. Talk with the instructor concerned. Most problems are resolved at this point.
2. Talk to the instructor’s department chairperson.
3. Take the case to the Grading Appeal Committee of the department concerned. The Committee should be contacted through the department chairperson.
4. Take the case to the College Grading Appeals Committee by contacting the Dean’s Office, 102 N elle Cochrane Woods.

General Requirements for Graduation

Credit Hours and Grade Point Average. A minimum of 125 semester hours of credit is required for graduation from the Hixson-Lied College of Fine and Performing Arts. Students who enter the College with less than two units of one foreign language from high school are required to take 130 semester hours as a minimum for the bachelor of arts in fine arts or bachelor of music degree. The bachelor of music education degree, students who enter the College with less than two units of one foreign language from high school are required to take additional hours in foreign language. Majors in the College are required to maintain a minimum current and cumulative GPA of 2.0. Individual departments may require a higher current and cumulative GPA.

Essential Studies Requirements, Library 110, Majors, and Minors. In addition to general requirements, students must complete Essential Studies requirements for a degree, LIBR 110, the Integrative Studies requirement, the requirements for a major, and the requirements for a minor or minors if required by the major.

Courses Numbered above 299. Thirty of the 125 (or 130) semester hours of credit must be in courses numbered above 299.

Course Exclusions and Restrictions

No credit for graduation is allowed for the following:

• athletic coaching
• vocational education
• driver training education
• first aid (NUTR 170 at UNL)
• industrial arts (including courses concerned primarily with manual skills, tools, machines, or industrial processes and design)
• orientation
• agricultural education (Credit is allowed for ALEC 102, 202, 327, 397E, 397K, 494, and 496)
• CRIM 351 (Credit is allowed for CRIM 101, 203, 221, 251, 301, 331, 335, 337, 431, 435, 480, 495)
• MATH 100A
• CSEC 137
T he current Hixson-Lied College of Fine and Performing Arts policy regarding elective credit in ROTC and activity or athletic practice courses in nutrition and health sciences, College of Education and Human Sciences is:

1. Students majoring in the Hixson-Lied College of Fine and Performing Arts may count no more than 10 hours credit in military science, naval science or aerospace studies courses toward their degree. Credit for courses taken beyond this limit will not count toward the credit hour requirements for a degree from the College. This restriction does not apply to courses cross listed between military science, naval science or aerospace studies and other departments of the Hixson-Lied College of Fine and Performing Arts.

2. Students majoring in the Hixson-Lied College of Fine and Performing Arts may count no more than 4 hours credit (1 credit hour per semester) in activity or athletic practice courses, and/or basic military training toward their degree. A. Additional activity, athletic practice and basic military training courses may be taken, but the credit earned will not count toward a degree from the Hixson-Lied College of Fine and Performing Arts.

3. A maximum total of 10 hours credit in activity, athletic practice, and basic military training courses and/or intersession military science, naval science, or aerospace studies courses combined can be counted toward a degree in the Hixson-Lied College of Fine and Performing Arts. This restriction does not apply to courses cross listed between military science, naval science, or aerospace studies and other departments of the Hixson-Lied College of Fine and Performing Arts.

Students in the Hixson-Lied College of Fine and Performing Arts who do not qualify for a major in music may not receive credit for more than 8 hours in applied music study. For students not majoring in music, only 4 hours in any one of the following music ensemble courses with a maximum of 8 hours in any combination of them, will apply toward their degree:

- All-Collage Choir 241, 441
- Band 240, 448
- Big Red Singers 251, 451
- Concert Choir 242
- Jazz Ensemble I 250A, 450A
- Jazz Ensemble II 250B, 450B
- Jazz Small Group 250E, 450E
- O rchestra 247, 447
- University Chorale 246, 446
- University Singers 245, 445
- Varsity Choir 243, 443

Residency Requirement and Correspondence Courses

At least 30 of the last 36 hours of credit needed for the degree must be registered for and completed while the student is enrolled at the University of Nebraska-Lincoln. Thirty semester hours earned through correspondence and summer reading courses at UNL may be applied toward a degree from the College. However, correspondence and summer reading courses do not count toward Residency or Integrative Studies requirements.

Credit earned during study abroad may be used toward degree requirements if students participate in prior approved programs and register through UNL (see “Study Abroad and Exchange Programs” on page 21).

Restrictions on D Grades

The College will accept no more than 15 semester hours of D grades from courses outside of the University of Nebraska system. D grades earned at UNL or transferred from other schools cannot be applied toward requirements in a major or a minor.

Degree Audit (The Senior Check)

During the second semester of the junior year or after completing 85 hours, students should apply for a degree audit at the Office of Registration and Records. Graduation Services, 109 Canfield Administration Building.

Special Requests and Waivers

Special requests concerning degree programs, including inquiries about exceptions to degree requirements, waivers and substitutions should be made to the Dean’s Office, 102 Nelle Cochrane Woods.

Application for a Degree

Each student who expects to receive a diploma must file an application for candidacy for the diploma with Graduation Services in the Office of Registration and Records. Graduation Services, 109 Canfield Administration Building. Announcements about deadline dates are posted on bulletin boards and printed in The Daily Nebraskan.

Students are responsible for informing the Office of Registration and Records of their graduation plans, including their addresses when they are completing their requirements such as by correspondence, by clearance of incompletes, by enrollment at another institution, by taking special examinations, etc., and of any later revision of such plans. Failure to follow this procedure may cause postponement of graduation until a later semester.

Which Undergraduate Bulletin to Follow

Students who first enroll at UNL under the 2007-2008 Undergraduate Bulletin must fulfill the requirements stated in this bulletin or in any other bulletin which is published while they are enrolled in the College provided the bulletin they follow is no more than ten years old at the time of graduation. A student must, however, meet the requirements from one bulletin only rather than choosing a portion from one bulletin and the remainder from another.

Exception: Students pursuing any degree in the School of Music who fail to take at least one course that will fulfill their degree requirements during a 12-month period must apply for readmission. They are then required to move to the new bulletin and fulfill the requirements in effect at the time of readmission.

Degree Programs

The Hixson-Lied College of Fine and Performing Arts offers curricula leading to the degrees of bachelor of arts, bachelor of fine arts, bachelor of music, and bachelor of music education.

A student who previously has received a baccalaureate degree must fulfill the following requirements to receive a second degree in the Hixson-Lied College of Fine and Performing Arts:

1. Complete a minimum of 30 semester hours of course work at UNL, and
2. Fulfill the Hixson-Lied College of Fine and Performing Arts Essential Studies requirements and the requirements for a major.

General Education Requirements

The general education requirements for students in the Hixson-Lied College of Fine and Performing Arts consist of four components:

- Information Discovery and Retrieval,
- Essential Studies,
- Integrative Studies, and
- Co-Curricular Experience.

For general information on these components, see “Comprehensive Education Program” on page 16. The College requirements are identical to the UNL Comprehensive Education Program requirements for Information Discovery and Retrieval, Integrative Studies, and Co-Curricular Experience. For Essential Studies, the College requirements for the BA are more stringent than the UNL requirements. In addition, they differ slightly for the BA, BFA, BM, and BM E degrees, as shown below.

Requirements for the Bachelor of Arts Degree

Students who wish to graduate with a bachelor of arts degree must complete the College graduation requirements, the UNL Comprehensive Education requirements for Information Discovery and Retrieval, Integrative Studies, and the Essential Studies requirements for the BA degree, the requirements for a major, and the requirements for a minor or minors if required by the major.

Essential Studies Requirements for the Bachelor of Arts Degree

A. Communication (6 hrs)
B. Mathematics and Statistics (3 hrs)
C. Human Behavior, Culture and Social Organization (9 hrs) Students must take at least 3 hours in two different departments.
D. Science and Technology (7 hrs) Students must take courses from at least two different departments. One course must include a lab component.
E. Historical Studies (6 hrs)
F. Humanities (3 hrs) An additional 6 hours must be taken from either Area A or Area B for a total of 12 hours in the humanities and arts.
G. Arts (3 hrs) An additional 6 hours must be taken from either Area A or Area B for a total of 12 hours in the humanities and arts.
H. Ethnicity and Gender (3 hrs) Any course completed for Area H may also count toward one other ES requirement (Area C, E, or additional F/G), provided the course is on both lists and at least two courses have been taken in the other Area.
NOTE: In fulfilling requirements in Areas C, E, F, G, and H, no more than 9 hours may be taken from any one department.

I. Languages–Classical, Modern and American Sign Language (0-16 hrs)

Fulfilled by the completion of a 16-hour sequence of courses in a single language in the Department of Classics and Religious Studies, the Department of Modern Languages and Literatures in the College of Arts and Sciences, or the Department of Speech-Language Pathology and Audiology in the College of Education and Human Sciences. The student must complete either 10 hours at the 100 level and 6 hours at the 200 level, or 8 hours at the 100 level and 8 hours at the 200 level. A student is required to successfully complete 202 to fulfill the languages requirement. (Exceptions in Greek, the student must complete GR EK 101, 102 and two 300-level courses in Latin, a student must take LAT N 101, 102, 301, and 302.) Instruction is currently available in Czech, French, German, Greek, Hebrew, Japanese, Latin, O maha N 9ive Language, Russian, Spanish, and American Sign Language.

NOTE:
- *Interim language courses for credit in the country of the language are also periodically available.
- A student who has completed three years of one foreign language study in high school may fulfill the languages requirement by taking a fourth semester-level course.
- A student who has completed the fourth-year level of one foreign language in high school is exempt from the languages requirement.
- Any student who achieves a specified scaled score in the College Level Examination Program (CLEP) subject exam in French, German, and Spanish, levels 1 and 2, will be exempt from the languages requirement and will also receive credit for the fourth semester course in the language.
- A transfer student with 11 or 12 semester hours of accepted credit in a second language has two choices 1) to complete 6 hours in the same language at the 200 level; or 2) with permission of the chair of the department to enroll in a fourth semester course.
- A student from a foreign country who has demonstrated acceptable proficiency in his or her native language (other than English) is exempted from the languages requirement without credit toward the degree. American students who present acceptable evidence that their second language is English are exempted from the languages requirement without credit toward the degree. All such students should see the Arts and Sciences Advising Center, 107 Oldfather, for this exemption.

Please refer to the “ES Area I Languages Exemption Policy” on page 126 for more information concerning language requirements.

Students not fulfilling the entrance requirement in languages (two units of the same language in high school) will need 130 (instead of 125) hours for graduation.

Requirements for the Bachelor of Fine Arts Degree

Students who wish to graduate with a bachelor of fine arts degree must complete the College graduation requirements, the UNL Comprehensive Education Requirements for Information Discovery and Retrieval and Integrative Studies, the Essential Studies requirements for the BFA degree, and the requirements for the major.

Essential Studies Requirements for the Bachelor of Fine Arts Degree

A. Communication (6 hrs)
B. Mathematics and Statistics (3 hrs)
C. Human Behavior, Culture, and Social Organization (6 hrs)
D. Science and Technology (3 hrs)
E. Historical Studies (3 hrs)
F. Humanities (3 hrs)
G. Arts (3 hrs)
H. Ethnicity and Gender (3 hrs)

Requirements for the Bachelor of Music Degree

Students who wish to graduate with a bachelor of music degree must complete the College graduation requirements, the UNL Comprehensive Education Requirements for Information Discovery and Retrieval and Integrative Studies, the Essential Studies requirements for the BM degree, and the requirements for the major.

Essential Studies Requirements for the Bachelor of Music Degree

A. Communication (6 hrs)
B. Mathematics and Statistics (3 hrs)
C. Human Behavior, Culture, and Social Organization (6 hrs)
D. Science and Technology (3 hrs)
E. Historical Studies (3 hrs)
F. Humanities (3 hrs)
G. Arts (3 hrs)
H. Ethnicity and Gender (3 hrs)
I. Languages, Classical, Modern and American Sign Language (0-16 hrs)

Please refer to Area I for the bachelor of arts degree for a detailed explanation of the requirements.

Requirements for the Bachelor of Music Education Degree

Students who wish to graduate with a bachelor of music education degree must complete the College graduation requirements, the UNL Comprehensive Education Requirements for Information Discovery and Retrieval and Integrative Studies, the Essential Studies requirements for the BME degree, and the requirements for the major. Other specific requirements may apply, please consult the summary of requirements for the BME degree on page 336.

A. Communication (6 cr)
B. Mathematics and Statistics (3 cr)
C. Human Behavior, Culture, and Social Organization (6 cr)
D. Science and Technology (3 cr)
E. Historical Studies (3 cr)
F. Humanities (12 cr)

At least one course must be a literature class from English (not with middle digits of 2 or 5). Six (6) credits must be from the Music Core Courses (music history).

G. Arts (3 cr)
H. Ethnicity and Gender (3 cr)

Comparison of Essential Studies Requirements for the BA, BFA, BM and BME Degrees

Listed in the specific courses which fulfill these requirements are found under “Approved Essential Studies [ES] Courses” on page 323.

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<th>ES Area</th>
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* See BME requirements listed on page 336 for specific courses.
** BA candidates must complete 6 additional hours between Areas F and G.

Integrative Studies [IS]

For [IS] requirements see “Integrative Studies [IS]” on page 17.
Introduction to Library Research (1 cr)

See “Information Discovery and Retrieval” on page 16.

Approved Essential Studies [ES] Courses

The courses listed as fulfilling Essential Studies requirements have been reviewed by the faculty and have been selected because they contribute substantially to the objectives of a general liberal education. The courses also are intended to take into account the background and needs of nonmajors to be broad in perspective, rather than narrow and technical, to attempt to show the relationship of the subject matter to other areas of knowledge. Courses taken to meet ES requirements must be selected from the lists that follow. The College continues to review and approve ES courses. Therefore, students may use the College ES list in the Bulletin which they are following or the College lists in any later Bulletin. Essential Studies courses that also meet Integrated Studies requirements are listed in bold.

Any course used to clear an entrance deficiency may not also be used to fulfill any ES requirement for any degree program.

Even though a course may appear on more than one Essential Studies list, a student may use a course in only one Essential Studies area. The only exception is Area H: Ethnicity and Gender for those majors pursuing a BA. Any course completed for Area H may also count toward one other ES requirement (Area C, E, or additional F/G), provided the course is on both lists and at least two courses have been taken in the other Area.

A. Communication

The communication requirement is intended to enable students to improve their skills in written and spoken communication through study and practice in order to be better able to participate actively in the intellectual life of the University and in the larger community beyond. One course must be an English composition course.

B. Mathematics and Statistics

Any course in the Department of Mathematics and Statistics for which MATH 208 is a prerequisite may be substituted for MATH 208 as meeting the ES requirement. The mathematics and statistics requirement is intended to impart knowledge of essential mathematical concepts and of the nature of mathematical reasoning and language, or, when appropriate, of methods of statistical analysis.

C. Human Behavior, Culture and Social Organization

The human behavior, culture and social organization requirement is intended to impart knowledge of individual and group behavior, the nature and origins of culture, the structure and governance of societies, the characteristics of economic practices and systems, and the interplay of human activity and the natural environment.

ENGL 188. ESL/Advanced Communication Skills (3 cr)
ENGL 254. Writing & Communities (3 cr)
JDEP 282H. Business Systems & Operations (BSAD 282H) (3 cr)
JDEP 284H. Foundations of Computer Systems (CSCE 284H) (4 cr)

B. Mathematics and Statistics

MATH 106. Analytic Geometry & Calculus I (5 cr)
MATH 107. Analytic Geometry & Calculus II (5 cr)
MATH 107H. Honors: Analytic Geometry & Calculus II (5 cr)
MATH 108H. Honors Calculus I (5 cr)
MATH 109H. Honors: Calculus II (5-7 cr)
MATH 189H. University Honors Seminar (3 cr)
MATH 203. Contemporary Mathematics (3 cr)
MATH 208. Analytic Geometry & Calculus III (4 cr)
MATH 208H. Honors Analytic Geometry & Calculus III (4 cr)
MATH 212. Topics in Contemporary Mathematics (3 cr)
MNGT 245. Elementary Quantitative Methods (3 cr)
PHIL 211. Intro to Modern Logic (3 cr)
STAT 218. Intro to Statistics (3 cr)

C. Human Behavior, Culture and Social Organization

AECH 141. Intro to Economics of Agriculture (3 cr)
AECH 205. Resource & Environmental Economics I (NREE 205) (3 cr)
AECH 276. Rural Sociology (SOCI 276) (3 cr)
AECH 346. World Food Economics (3 cr)
AECH 376. Rural Community Economics (3 cr)
AGRI 222. Intro to Global Agricultural & Natural Resources Issues (3 cr)
ALEC 189H. University Honors Seminar (3 cr)
ANTH 107. Individual & Society (3 cr)
ANTH 110. Intro to Anthropology (3 cr)
ANTH 139. Anthropology of the Great Plains (3 cr)
ANTH 189H. University Honors Seminar (3 cr)
ANTH 212. Intro to Cultural Anthropology (ETHN 212) (3 cr)
ANTH 252. Archaeology of World Civilizations (CLAS 252) (3 cr)
ANTH 261. Conflict & Conflict Resolution (POL/PSY/PSY 261) (3 cr)
ANTH 351. Indigenous Peoples of North America (ETHN 351) (3 cr)
ANTH 352. Indigenous Peoples of the Great Plains (ETHN 352) (3 cr)
ANTH 353. Anthropology of War (3 cr)
ANTH 362. Peoples & Cultures of Africa (ETHN 362) (3 cr)
ANTH 366. Peoples & Cultures of East Asia (3 cr)
ATHC 279. Coaching Effectiveness & Psychological Components of Sports Performance (3 cr)
BISO 262. Bioethics (3 cr)
BSAD 182H. Honors: Foundations of Business II (JDEP 182H) (3 cr)
BSAD 381H. Honors: Advanced Topics in Business I (JDEP 381H) (3 cr)
CLAS 252. Archaeology of World Civilizations (ANTH 252) (3 cr)
COMM 189H. University Honors Seminar (3 cr)
COMM 200. Intro to Communication Studies (3 cr)
COMM 210. Small Group Problem Solving (3 cr)
COMM 211. Intercultural Communication (ETHN 211) (3 cr)
COMM 216. Intro to Broadcasting (BR DC 216) (3 cr)
COMM 283. Communication & Popular Culture (3 cr)
COMM 283. Interpersonal Communication (3 cr)
COMM 300. Nonverbal Communication (3 cr)
COMM 334. Polis, Politics & Public Opinion (POL S 334) (3 cr)
COMM 354. Health Communication (3 cr)
COMM 370. Family Communication (3 cr)
COMM 371. Communication in Negotiation & Conflict Resolution (3 cr)
COMM 375. T.Hories of Persuasion (3 cr)
COMM 380. Gender & Communication (3 cr)
EDPS 189H. Honors: How to Learn & Develop Talent (3 cr)
EDPS 209. Strategies for Academic Success (3 cr)
ENGL 220. Intro to Linguistic Principles (3 cr)
ENGL 328B. Linguistics & Society (3 cr)
ETHN 189H. University Honors Seminar (3 cr)
ETHN 200. Intro to African American Studies (3 cr)
ETHN 201. Intro to Native American Studies (3 cr)
ETHN 211. Intercultural Communication (COMM 211) (3 cr)
ETHN 212. Intro to Cultural Anthropology (ANTH 212) (3 cr)
ETHN 217. Nationality & Race Relations (SOCI 217) (3 cr)
ETHN 218. Chicanos in American Society (SOCI 218) (3 cr)
ETHN 238. Blacks & the American Political System (POL S 238) (3 cr)
ETHN 310. Psychology of Immigration (PSYC 310) (3 cr)
ETHN 330. Multicultural Education (TEAC 330) (3 cr)
ETHN 351. Indigenous Peoples of N orth America (ANTH 351) (3 cr)
ETHN 352. Indigenous Peoples of the Great Plains (ANTH 352) (3 cr)
ETHN 362. Peoples & Cultures of Africa (ANTH 362) (3 cr)
ETHN 448. Family Diversity (SOCI 448) (3 cr)
CYAF 160. Human Development & the Family (3 cr)
CYAF 160H. Honors Human Development & the Family (3 cr)
CYAF 271. Infancy (3 cr)
GEOG 120. Introductory Economic Geography (3 cr)
GEOG 140. Introductory Human Geography (3 cr)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLAS 307</td>
<td>Early Christianity (CLAS/RELG 307)</td>
<td>3 cr</td>
</tr>
<tr>
<td>CLAS 252</td>
<td>Archaeology of World Civilizations</td>
<td>3 cr</td>
</tr>
<tr>
<td>CLAS 245</td>
<td>War in the Classical World</td>
<td>3 cr</td>
</tr>
<tr>
<td>CLAS 233</td>
<td>Science in the Classical World</td>
<td>3 cr</td>
</tr>
<tr>
<td>ARCH 240</td>
<td>History of Architecture</td>
<td>3 cr</td>
</tr>
<tr>
<td>ANTH 439</td>
<td>Archaeology of Preindustrial Civilization</td>
<td>3 cr</td>
</tr>
<tr>
<td>E. Historical Studies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The historical studies requirement is intended to impart knowledge of the way in which history may be used to interpret the development of peoples, nations or cultures.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 242</td>
<td>Prehistory (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ANTH 252</td>
<td>Archaeology of World Civilizations (CLAS 252)</td>
<td>3 cr</td>
</tr>
<tr>
<td>ARCH 439</td>
<td>Archaeology of Preindustrial Civilization (3 cr)</td>
<td></td>
</tr>
<tr>
<td>CLAS 301</td>
<td>Early Christianity (HIST/R ELG 307)</td>
<td>3 cr</td>
</tr>
</tbody>
</table>
Areas of Study for the Major and Minor: Hixson-Lied College of Fine and Performing Arts

The Major

Students must declare a major field in the Hixson-Lied College of Fine and Performing Arts. Students should consult the appropriate section of the Bulletin for major requirements in the various areas of study in the Hixson-Lied College of Fine and Performing Arts.

It is sometimes possible, through careful planning, for students to complete more than one undergraduate major. Students should consult their advisers about this possibility. The student who majors in more than one field will be assigned to an adviser in each field.

Minimum grade requirements within the major area are set by each academic unit. Transfer students must take at least 9 hours in the chosen major field at UNL regardless of the number of hours transferred.

Inter-College Majors

A student in the Hixson-Lied College of Fine and Performing Arts may complete a second bachelor of arts degree in the College of Arts and Sciences. Likewise, a student in the College of Arts and Sciences pursuing a bachelor of arts degree may also complete a second bachelor of arts major in the Hixson-Lied College of Fine and Performing Arts. The student must complete all degree requirements in the degree college in addition to the course work for the second major in the visiting college. One degree (diploma) will be awarded upon completion.

The Minor

The requirement of minors is variable within the College and depends upon the student's major department. Two minor plans are available.

Plan A. A single minor is completed following the requirements listed in each area of study.

Plan B. Two or more minors are completed with fewer hours in each subject than the number required for a single minor. Hours are stated in each area of study listing.

Minutes outside the Hixson-Lied College of Fine and Performing Arts are permitted, including all minors offered by the College of Arts and Sciences.

Areas of Study

The Hixson-Lied College of Fine and Performing Arts offers study toward the major and minor in many areas. In addition to the listed areas, the Interdisciplinary Studies option allows even more flexibility in the choice of a major study area. Specific requirements for each area of study are listed with the course descriptions in the alphabetical department and area listings in this bulletin.

A summary of the major and minor areas of study for degrees offered by the Hixson-Lied College of Fine and Performing Arts includes:

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Bachelor of Music Degree

Music.....................................................334

Bachelor of Music Education Degree

Music Education (see Music)........................334

Hixson-Lied College of Fine and Performing Arts: Areas of Study

Information concerning each of the College's areas of study is presented in the following sequence:

1. Department or area name,

2. Department chair and department address and teaching professors,

3. General information,

4. Pass/no pass regulations regarding major and minor work,

5. Requirements for a major in the area of study,

6. Requirements for a minor in the area of study, and

7. Detailed description of courses.

Art and Art History

Chair: Ed Forde, 120 Richardson Hall
Professors: Forde, Hoff, Jacobshagen, Kendall, Kunc, Mamiya, Stewart
Associate Professors: Bartels, Bolland, Cal, Dominguez, Fritz, Fuller, Ingraham, Katz, Neal, Williams
Assistant Professors: Holz, Souto
Senior Lecturer: Spencer

The program in the Department of Art and Art History enables students to attain proficiency in the practice of art and knowledge of the history of art in addition to a general college education. The department is keenly interested in both students who choose art as their profession and who want to devote themselves to a period of intensive education, and those who recognize the cultural advantages or who find in artistic endeavor a high degree of personal enjoyment and satisfaction.

The department offers facilities for instruction and exhibition in a variety of studios, shops, and laboratories. The Sheldon Memorial Art Gallery and Sculpture Garden, adjacent to the department, is the setting for traveling exhibitions as well as the display of works of art selected from the Sheldon's extensive permanent collection. The department also presents exhibitions in its own Eisentrager-Howard Gallery. Both serve as extensions of the studio and classroom learning experience.

Students in theory and practice of art are required to furnish their own materials except certain studio equipment provided by the University. Most department courses carry a lab fee when completed, all work is under departmental control until after the public exhibition of student work at the end of the academic year.

The University Department of Art and Art History is an accredited institutional member of the National Association of Schools of Art and Design.

Grade Restrictions for Art and Art History

All art and/or art history majors must earn a minimum grade of C in all courses that count toward their major.

No courses for the major may be taken Pass/No Pass except those offered only as Pass/No Pass.

Requirements for the Major in Art

Bachelor of Arts Degree

Ten Integrative Studies [IS] courses are required for this degree. Students with transfer credit should consult their Evaluation of Transfer
Credit for information about prorated courses. More information about IS courses can be found on page 17.

**Essential Studies Requirements**

All courses must be selected from the lists found under "Approved Essential Studies (ES) Courses" on page 323.

- **Area A. Communication**
- **Area B. Mathematics and Statistics**
- **Area C. Human Behavior, Culture, and Social Organization**
- **Area D. Science and Technology**
- **Area E. Historical Studies**
- **Area F. Humanities**
- **Area G. Arts**
- **Additional hours required from Area F/G**
- **Area H. Ethnicity and Gender**
- **Area I. Languages**

**Library 110**

- **Art History Electives**
- **Academic Electives**

Total hours required for graduation: 125

A minor is required. Either one (1) Plan A or two (2) Plan B minors may be pursued according to the guidelines on page 329. Art history may be used only as a Plan B minor.

No more than 6 hours among independent study courses (ARTP 395, 495, 496, 499H; AHIS 390, 392, 395, 490, 492, 495, 499H) may count toward the major in the BA degree.

**Bachelor of Fine Arts Degree**

A candidate for the bachelor of fine arts degree may pursue an emphasis if desired. Areas of emphasis include ceramics, drawing, graphic design, painting, photography, printmaking, and sculpture.

Ten Integrative Studies (IS) courses are required for this degree. Students with transfer credit should consult their Evaluation of Transfer Credit for information about prorated courses. More information about IS courses can be found on page 17.

**Essential Studies Requirements**

All courses must be selected from the lists found under "Approved Essential Studies (ES) Courses" on page 323.

- **Area A. Communication**
- **Area B. Mathematics and Statistics**
- **Area C. Human Behavior, Culture, and Social Organization**
- **Area D. Science and Technology**
- **Area E. Historical Studies**
- **Area F. Humanities**
- **Area G. Arts**
- **Area H. Ethnicity and Gender**
- **Area I. Languages**

**Library 110**

- **Art History Electives**
- **Academic Electives**

Total hours required for graduation: 125

Bachelor of Arts Degree

Ten Integrative Studies (IS) courses are required for this degree. Students with transfer credit should consult their Evaluation of Transfer Credit for information about prorated courses. More information about IS courses can be found on page 17.

**Essential Studies Requirements**

All courses must be selected from the lists found under "Approved Essential Studies (ES) Courses" on page 323.

- **Area A. Communication**
- **Area B. Mathematics and Statistics**
- **Area C. Human Behavior, Culture, and Social Organization**
- **Area D. Science and Technology**
- **Area E. Historical Studies**
- **Area F. Humanities**
- **Area G. Arts**
- **Area H. Ethnicity and Gender**
- **Area I. Languages**

**Library 110**

- **Art History Electives**
- **Academic Electives**

Total hours required for graduation: 125

Plan A: 19 hours, including ART P 143, 140A, 140B, 141A, 141B; AHIS 101 or 102, and 6 hrs of studio electives.

Plan B: 12 hours of studio art courses.

**Art History Minor**

Plan A: 18 hours of art history including AHIS 101 and 102. At least 3 hrs of the 18 hrs must be in courses numbered above 299.

Plan B: 12 hours of art history including AHIS 101 and 102.

**Courses of Instruction**

Studio art courses are based on a ratio of two clock hours per week in the classroom for each semester credit hour received. A minimum of 3 additional hours outside of regularly scheduled class hours are required.

Refer to the Graduate Bulletin for 900-level courses.

**Art Theory and Practice (ARTP)**

099. Capstone Senior Exhibition (1 cr) Prereq: Senior standing and permission. ART P 099 must be taken during the final year.

Public exhibition to demonstrate artistic proficiency.

140A, 140B. Visual Literacy Lab: Analyzing and/or Composition (ARTCH, IDES, JGEN, TXCD 140A, 140B) (2 cr) Lab. Prereq: ART P major or candidate for teaching endorsement in art. ARTCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. JGEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing and Design minor or major.

Development of creative and perceptual analytic skills through problem solving in design, Composition and analysis.

140B. Visual Literacy Lab: Perceptual Drawing (ARTCH, IDES, JGEN, TXCD 140B) (2 cr) Lab. Prereq: ART P major or candidate for teaching endorsement in art. ARTCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. JGEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing and Design minor or major.

Development of creative and perceptual analytic skills through problem solving in design and composition. Composition and color theory application.

141A, 141B. Visual Literacy Lab: Color (ARTCH, IDES, JGEN, TXCD 141A, 141B) (2 cr) Lab. Prereq: ART P major or candidate for teaching endorsement in art. ARTCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. JGEN: College of Journalism and Mass Communications major and 2.75 GPA. TXCD: Textiles, Clothing and Design minor or major.

Development of creative and perceptual analytic skills through problem solving in design and composition. Composition and speculative drawing.

142V, 142U. Visual and Aural Literacy (ARTCH, IDES, JOUR, TXCD 142) (2 cr) Lec, quz. Prereq: JOUR: College of Journalism and Mass Communications major and 2.75 GPA. ART P major or candidate for teaching endorsement in art. ARTCH: Admission to the College of Architecture. IDES: Admission to the College of Architecture. TXCD: Textiles, Clothing and Design minor or major.

Development of creative and perceptual analytic skills through problem solving in design and composition. Formal and critical analysis.

189H, University Honors Seminar (3 cr) Prereq: Graduating standing in the University Honors Program by invitation. University Honors Seminar 189H is required of all students in the University Honors Program.

Topic varies.

199G. Special Topics in Studio Art (ARTS 199) (1-6 cr; max 24 Stu.) Prereq Permission.

299. Special Topics in Art (1-6 cr; max 24 Stu.)

305. Internship in Art (1-6 cr, max 6 Fld. Prereq: Junior standing and permission of department chair. Past 10 has only coordinated through the Internship and Cooperative Education Office.
Art-Drawing (DRAW)

[ES] 101. Beginning Drawing (3 cr)
Fundamental principles of drawing and perspective based on observation and imagination.

Intermediate work in drawing with emphasis on figure drawing.

Instruction in drawing the human figure.

301. Advanced Drawing I (3 cr) Prereq: DR AW 202 or permission.
Advanced work in drawing with emphasis on individual expression.

302. Advanced Drawing II (3 cr) Prereq: DR AW 301, or permission.
Continuation of DR AW 301.

401. Advanced Drawing III (3 cr) Prereq: DR AW 302 or permission.
Advanced work in drawing with emphasis on individual problems.

402. Advanced Drawing IV (3 cr) Prereq: DR AW 401 or permission.
Continuation of DR AW 401.

801. Drawing I (1-6 cr)

802. Drawing II (1-6 cr)

Art-Graphic Design and Illustration (GRPH)

Introduction to the graphic designer's literal and visual methods of creative communication including comprehensive art preparation.

Introduction to typeface classification, foundations of typographic imaging systems, and fundamentals of typographic design problem solving.

Continued studies of the graphic designer's creative approach, including elements of typography, photography, illustration, and design in various print formats.

323. Advanced Typography (3 cr) Prereq: GR PH 223 or permission.
Survey of historic and contemporary typographic trends; letterforms as abstract images; practice of typographic design by editing literal concepts for visual ideas.

324. Publication Design (3 cr) Prereq: GR PH 321.
Mosaic grid usage as an organizational tool for textual and graphic elements in various publication formats.

Book forms from traditional multipage formats to present-day on-demand digital publications.

[I] 421. Advanced Graphic Design (3 cr) Prereq: GR PH 321 or permission.
Advanced graphic design problem solving to formulate the student's individual creative design approach.

Advanced work in illustration emphasizing the artist's role as a creative communicator.

426. Design Studio (3 cr) Prereq: Senior standing in art or permission.
Advanced study through projects commissioned by community and campus organizations.

421. Graphic Design I (1-6 cr)

422. Graphic Design II (1-6 cr)

Art-Painting (PANT)

Introduction to painting stressing the creative use of form, light, color, and space as bases for expression of observed facts.

Continuation of PANT 251.

351. Intermediate Painting I (3 cr) Prereq: PANT 252 or permission.
From head, life, still life, and landscape; creative use of form, light, color, and space as bases for expression of observed facts.

352. Intermediate Painting II (3 cr) Prereq: PANT 351 or permission.
Continuation of PANT 351.

451. Advanced Painting I (3 cr) Prereq: PANT 352 or permission.
Painting in various media; related concepts of drawing; emphasis on increasing maturity of expression and technique; special techniques and advanced composition.

452. Advanced Painting II (3 cr) Prereq: PANT 451 or permission.
Continuation of PANT 451.

851. Painting I (1-6 cr)

852. Painting II (1-6 cr)

Art-Photography (PHOT)

[ES] 161. Beginning Photography I (3 cr) C credit will not count toward the major in art.
Beginning photography as a fine arts medium; instruction in and use of both camera and darkroom with emphasis on developing insight into seeing photographically.

Introduction to photography as expression. Intensive use of the camera, thorough darkroom instruction and insight into seeing photographically.

A more intensive investigation of photography as an expressive art medium. Additional technical and aesthetic problems.

Theory and technique of the color photograph as an art medium.

361. Advanced Photography I (3 cr) Prereq: PHOT 262 or permission.
Advanced work in photography with emphasis on individual problems in visual aesthetics and communication.

362. Advanced Photography II (3 cr) Prereq: PHOT 361 or permission.
Continuation of PHOT 361.

363. Advanced Color Photography I (3 cr) Prereq: PHOT 263 or permission.
Continuation of PHOT 263.

364. Advanced Color Photography II (3 cr) Prereq: PHOT 363 or permission.
Continuation of PHOT 363.

461. Advanced Photography III (3 cr) Prereq: PHOT 362 or permission.
Continuation of PHOT 362 with emphasis on individual problems.

462. Advanced Photography IV (3 cr) Prereq: PHOT 461 or permission.
Continuation of PHOT 461.

463. Advanced Color Photography III (3 cr) Prereq: PHOT 364 or permission.
Continuation of PHOT 364.

464. Advanced Color Photography IV (3 cr) Prereq: PHOT 463 or permission.
Continuation of PHOT 463.

498A. Problems in Studio: Color Photography (1-6 cr, max 24) Prereq: Permission. Open to advanced students only. Problems in technique and expression in color photography.
413/813. Roman Painting (3 cr) Prereq: 12 hrs art history or in related disciplines with permission. Development of Roman painting from the Etruscans through the Age of Constantine.

414/814. Greek Sculpture (3 cr) Prereq: 12 hrs in art history, including AHIS 318, or in related disciplines with permission. Styles, iconography, history, and function of painting and prints from ca. 1150 to 1475 in France, Germany, and the Netherlands. Includes manuscript illumination, stained glass, panel painting, woodcuts, and engraving, stressing the development of naturalism before the "Renaissance" in Northern Europe.

421/821. The Italian Renaissance City (3 cr) Prereq: 12 hrs in art history, or in related disciplines with permission. Exploration of the art and architecture of the Italian city in the late middle ages and Renaissance, with particular attention to civic projects and the role of art in defining the identity, and creating the "myths" of that city.

426/826. Northern Renaissance and Reformation Art (3 cr) Prereq: 12 hrs in art history, including AHIS 318 or 416, or in related disciplines with permission. Art of the Renaissance and Reformation in Germany and the Netherlands. Stresses the influences of Italian Renaissance Art and the impact of the Protestant Reformation from ca. 1475 to 1575.

431/831. Italian Baroque Art (3 cr) Prereq: 12 hrs in art history or in related disciplines with permission. Painting, sculpture and architecture in Italy from the late sixteenth to the eighteenth century.

441/841. Impressionism and Post-Impressionism (3 cr) Prereq: 12 hr in art history or in related disciplines with permission. French Impressionism and Post-impressionism with consideration of the historical context out of which they emerged. Development of the avant-garde and the changing relationship of the artist to society.

446/846. Art since 1945 (3 cr) Prereq: 12 hrs in art history, including AHIS 102 and 246. Art from 1945 to the present focusing on the development of the avant-garde, the transition from modernism to postmodernism, and the various art world institutions.

448/848. Post-Modernism (3 cr) Prereq: 12 hrs in art history, including AHIS 246 and 446/846; or 12 hrs in related disciplines with permission. Developments in art since 1970, exploring the various art dyes of the relationship of the artist to audience and to the institutions of the art world.

451/851. 19th-Century American Art (3 cr) Prereq: 12 hrs in art history including AHIS 251 or 341 or permission. 19th Century American art and material culture.

452/852. American Art, 1893-1939 (3 cr) Prereq: 12 hrs in art history including AHIS 252 or 346 or permission. Early 20th-century American art.

456/856. Pre-Columbian Art (3 cr) Prereq: 12 hrs in the history of art or in related disciplines with permission. Emphasizing the Mesoamerican and Andean traditions.

457/857. Colonial Art of Latin America (3 cr) Prereq: 12 hrs in the history of art or in related disciplines with permission. Emphasizing New Spain, the Viceroyalty of Peru, and Brazil.

[ES] 471/871. History of Photography (3 cr) Prereq: Permission. Introduction to the history of still photography with major emphasis on its development as an art form.

472/872. Photography Since 1960 (3 cr) Prereq: AHIS 471/871 or permission. Movements in photography since 1960 with emphasis on the interaction with art theory and criticism.

476/876. History of Prints (3 cr) Prereq: 12 hrs in art history, including AHIS 221, 226, or 231, or in related disciplines with permission. Introduction to the history of prints stressing printmaking techniques, i.e., woodcut, engraving, drypoint, etching, and the makers of prints during the first 300 years of printmaking in Europe. Baldis, Goltzius, Bruegel, and Rembrandt.

480/890. Directed Individual Reading (1-6 cr, max 24) Ind. Prereq: Permission of department chair.

492/892. Independent Research in Art History (1-6 cr, max 24) Ind. Prereq: Permission of department chair.

495/895. Internship in Art History (1-6 cr, max 24) Fld. Prereq: Senior standing and permission of department chair.

499/899. Special Topics in Art History (1-3 cr) Fld. Prereq: Permission.


Business

(Minor only)

Adviser: D’Vee Buss, Assistant Dean, 138 College of Business Administration

Minor in General Business (Plan A only)

The College of Business Administration has joined with the College of Arts and Sciences and the Hixson-Lied College of Fine and Performing Arts to offer a minor in general business to provide students with a general business background. As a prerequisite to the minor, students are required to complete 15-20 credit hours of foundation courses in math, statistics, economics, and accounting and to pass BSAD 150. These foundation courses may apply toward their liberal education requirements. After completing the required foundation courses, students complete 12 credit hours in business core courses which will provide the students a general business background.

Pass/No Pass

Not allowed for foundation courses or business core courses.

Required Foundation Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201 and 202 or 306</td>
<td>4-6</td>
</tr>
<tr>
<td>ECON 211 and 212 or 210</td>
<td>5-6</td>
</tr>
<tr>
<td>ECON 215 or STAT 218 or 380</td>
<td>3</td>
</tr>
<tr>
<td>MATH 104 or 106 or 108H</td>
<td>3-5</td>
</tr>
<tr>
<td>BSAD 150</td>
<td>Total 15-20</td>
</tr>
</tbody>
</table>

* BSAD 150 is a 1 credit course but the credit will not count toward the minor nor toward a degree.

Required Business Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 361</td>
<td>3</td>
</tr>
<tr>
<td>MKT 341</td>
<td>3</td>
</tr>
<tr>
<td>Select one from 200 or 300 level courses</td>
<td>3-5</td>
</tr>
<tr>
<td>300/400-level business course</td>
<td>Total 12</td>
</tr>
</tbody>
</table>

Total for the Minor 27-32

Dance

Coordinator: Susan Levine, 208 Mabel Lee Hall

The bachelor of arts degree is designed to provide a comprehensive arts experience with emphasis on dance. It is appropriate for students who wish to develop performance and technique skills in dance, who are interested in dance as a fine art, and who wish to prepare to choreograph and teach dance. An audition is required for acceptance as a dance major or minor. The School of Music should be contacted for audition dates. Auditions are generally held in January and February.

All entering dance majors must register for 200-level technique courses. It is recommended that all majors enroll for both ballet and modern dance every semester. All majors should perform each semester.

Ten Integrative Studies [IS] courses are required for this degree. Students with transfer credit should consult their Evaluation of Transfer Credit for information about transferred courses. More information about [IS] courses can be found on page 17.

Dance Major Requirements

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
</tr>
<tr>
<td>50</td>
</tr>
</tbody>
</table>

Dance Technique................................. 16
Dance Theory & History......................... 15
Dance Composition & Performance.............. 10
Arts Electives.................................... 19
Academic Electives................................. 2-18

Total hours required for graduation........ 125

Grade Restrictions for Dance

Dance majors are required to earn a minimum grade of C in all courses for the major. Graded courses in which a student earns a grade of C- or below must be repeated in order to count towards graduation. No dance courses may be taken Pass/No Pass except those offered only as Pass/No Pass.

Requirements for the Major in Dance

Bachelor of Arts. Dance major requirements (60 cr)

A. Dance Technique (16 cr)

DANC 211. Ballet I (4 cr)
DANC 212. Ballet II (4 cr)
DANC 312. Modern III (4 cr)
DANC 412. Modern IV (4 cr)

B. Dance Theory and History (15 cr)

DANC 159. Intro to History of Dance (3 cr)
DANC 228. Mus & Dance (3 cr, max 6)
DANC 338. Dance Kinesiology & Injury Prevention (3 cr)
DANC 349. History of Dance: 20th Century & Beyond (3 cr)
DANC 448. Pedagogy (3 cr)

C. Dance Composition and Performance (10 cr)
DANC 300. Dance Composition (6 cr)
DANC 260/460. Repertory, Improvisation & Performance (1 cr, max 8)

D. Arts Electives (19 cr min)
Art and Art History (3 cr)
Music (3 cr)
Theatre (3 cr)
Other Arts Electives, including Dance (10 cr)

Requirements for the Minor in Dance (Plan A) (18 cr)

Students must audition for dance faculty for acceptance as a minor.
DANC 159. Introduction to History of Dance (3 cr)
DANC 338. Dance Kinesiology & Injury Prevention (3 cr)
DANC 211. Ballet I (4 cr)
DANC 212. Modern Dance I (4 cr)
DANC 260 or 460. Repertory, Improvisation, & Performance (2 cr)
DANC 312. Modern Dance III (2 cr)

Courses of Instruction

Dance (DANC)

101. Beginning Ballet (1 cr) For students with no previous dance training. Basic technique and practice of classical ballet, including the ballet vocabulary.

112. Modern Dance and Ballet I (2 cr, max 16) Stu 4. DANC 112 will not count toward a major or minor in DANC. Earliest stages of studio training in modern dance and ballet. Application of the fundamentals and principles of ballet movement and vocabulary. Beginning modern dance technique with emphasis on mastering the fundamentals of movement. Style, phrasing, musicality, personal interpretation, and improvisation.

127. Social Dance I (1 cr) Introduction to popular forms of social dance.

[ES][IS] 159. Introduction to History of Dance (3 cr) Lec 3 cr. Historical survey of the art of dance. The various forms of dance. The roots of contemporary ballet and the evolution of modern dance.


228. Music for Dance (3 cr, max 8) Lec 3 cr. Prereq: Dance major; DANC 112 or 211 or 222. DANC 228 includes written and oral presentations. Rhythmic reading and analysis, dance accompaniment techniques, music resources, and the relationship of sound to movement. The use of percussion instruments and sound inventions in the theory and practice of accompaniment for dance.

349. History of Dance: 20th Century and Beyond (3 cr) Lec 3 cr. Prereq: DANC 112. Emergence and evolution of modern dance since the beginning of the 20th Century, from its infancy to the present day. Modern dance emergence from ballet. The ways that contemporary ballet is influenced by modern dance.

359. Special Topics in Dance (1-3 cr, max 6) Lec 3 cr. DANC 359 requires analysis and annotation of a major original choreographic work, a solo performance in a major dance work and participation in a technique course offered with a guest artist in a medium not usually offered in the program, or an advanced research project.


448. Dance Pedagogy (3 cr) Lec 3 cr. Prereq: Senior standing; DANC major; two 300-level DANC technique courses. Methods and materials for the teaching of dance. Alignment analysis of the theory and evaluation of technique leading to structuring exercise progressions, developing lesson plans, creating course outlines, teaching observations and teaching practice.

469. Seminar in Dance (3 cr) Prereq: Senior standing and DANC 159 and 349. Survey and history of major critical writings on dance with emphasis on a sound and supportive approach to viewing, reviewing, and critically analyzing the dance art form.

496. Independent Study/Internship (1-6 cr, sem, max 9) Field work in dance, dance teaching, or a specifically arranged course of dance study under the supervision of a faculty adviser.

498. Practicum in Dance Teaching (1-3 cr, max 6) Prereq: DANC 348 or permission. Supervised application of pedagogic principles.

Interdisciplinary Studies

Intended for students seeking advanced levels of scholarship, this specialized course of study leads to a bachelor of arts degree. It allows a student, with the supervision and approval of an academic adviser, to design an academic program that differs from the established majors offered by the College. The degree program must be based on a clearly defined program area, a defined body of thought, or a specific educational goal. Courses outside the College may be used, however, all College requirements (including the Comprehensive Education Program requirements) must be fulfilled. (See graduation and degree requirements, pages 320-322.)

Students must be admitted as a major into one of the academic units and successfully complete one year of the home unit's core curriculum before applying for entrance into the Interdisciplinary Studies program. A listing of the required courses is available in each academic unit’s administrative office.

Application forms available in the Dean's Office (102 Nelle Cochran-Woods), require a statement of goals and purpose by the applicant, a proposed course of study, a statement of support from the student's academic adviser, and approval signatures of the unit's chief adviser and the College Advising Coordinator. Acceptance into the program is determined by the administrative head of the academic unit and the associate dean. Upon acceptance into the program, the student's academic adviser must complete a College Degree Confirmation Form to be filed in the office of Records and Records. Significant changes in the course of study must be approved by the administrative head of the home academic unit. The adviser is responsible for coordinating the program with other concerned departments.

Requirements for the Major in Interdisciplinary Studies

Bachelor of Arts Degree

Ten Integrative Studies [IS] courses are required for this degree. Students with transfer credit should consult their Evaluation of Transfer Credit for information about prerequisite courses. More information about [IS] courses can be found on page 17.

Essential Studies Requirements ...................................................................... Hours 46-62
All courses must be selected from the lists found under “Approved Essential Studies [ES] Courses” on page 273.

Area A. Communication ................................................................. 6
Area B. Mathematics and Statistics .................................................. 3
Area C. Human Behavior, Culture, and Social Organization ..................... 9
Area D. Science and Technology ......................................................... 9
Area E. Historical Studies ............................................................... 6
Area F. Humanities ................................................................. 3
Area G. Arts ................................................................. 3
Area H. Ethnicity and Gender ......................................................... 3
Area I. Languages ................................................................. 0-16

Library 110. .......................................................................................... 1
Total hours required for graduation ......................................................... 125

Music

Director: John W. Richmond, 120 Westbrook Music Building
Professors: Bailey, Fought, H. Arler-Smith, Lefferts, M. Cullen, N. Herman, O. Iwai, R. Richmond, Romero, Snyder, & Stare
Associate Professors: Anderson, Barber, Barger, Barnes, Becker, Clinton, Eklund, M. Moore, N. Eley, Potter, Shomo, D. W. Hite, R. W. Hite, T. W. Hite, Woody
Assistant Professors: Bushard, Butler, Foley, Fusliher, H. Aar, H. Aarhahn, H. Bibbard, M. Arks, M. Atting, W. Risten
Senior Lecturers: Beilhoefer, Chang-Barnes, Fuller, N. Arno
Lecturers: Beaver, Bouffard, Bush, Falcone, Fischer, Larson, Sirota-Yoo

The School of Music, which includes the Dance Division, offers a variety of courses and programs to students on the University campus. Three major programs are available in music. For information about the BA in dance, refer to
Part II - Musicianship

Applied Music. Registration for applied music lessons is possible only after an audition before a panel of School of Music faculty members. It is recommended that prospective music students planning to enter the fall submit their applications for admission to the University by January 15 and that they audition before March 15. (Students interested in a music scholarship should audition and apply for scholarship consideration before March 15.) Prospective music majors should audition prior to April 1. After this date, space for new students may be extremely limited in many areas. All auditions are arranged through the School of Music.

Applied Music for Beginners. Students who are not music majors or minors and desire to take lessons should see the course descriptions under Music for Non-Majors.

Upper Division Admission Requirement

Requirements for Continuing Study Toward a Music Degree

Music majors are required to demonstrate adequate skills in applied music, functional keyboard, theory, and sight singing before they may continue toward the completion of a Bachelor of Music major. Students wishing to take a course of study in music that will prepare them for graduate study and eventually a professional career in music theory, music history, composition, piano pedagogy, or performance, should take a bachelor of music degree. Students wanting to teach music in K-12 schools should pursue a bachelor of music education degree. This degree leads to an endorsement (certification) in vocal and instrumental music with an emphasis in choral or instrumental music. It is also possible to minor in music.

An audition is required for acceptance into either the minor program or the degree programs. Good preparation in music from high school or from private study is a prerequisite. The School of Music should be contacted for audition dates. Auditions for admission and scholarship are held in January and February. Auditions for admission only are held in March.

Additional Requirements for the Bachelor of Arts Degree

This degree offers a choice between two options: a) research track, or b) a performance track. The performance track will culminate with a recital normally given during the sixth (and last) semester of study. The research track will culminate in the presentation of a final research project or dissertation. Both the research and the performance options require that a minor area of study be included in the program of studies. Here are currently three alternatives that could be selected for the minor area of study: 1) minor(s) in an area of choice; 2) minor in General Business; or 3) minor in Music/Technology.

Minor(s) in an Area of Choice. Students may select either one Plan A minor or two Plan B minors in their area of choice. The minors may be selected according to the guidelines on page 329.

Minor in General Business. (See "M inor in General Business (Plan A only)" on page 333.)

Minor in Music/Technology. Information is available by contacting the School of Music.

Summary of requirements—minimum 125 or 130 hr(s); see "General Requirements for Graduation" on page 320.

Ten Integrative Studies courses are required for this degree. Students with transfer credit should consult their Evaluation of Transfer Credit for information about prorated courses. More information about [15] courses can be found on page 17.

Music Core Curriculum

A three-year sequence of courses called the Music Core Curriculum is at the heart of the School of Music instructional program. These courses are required of all music majors. Music majors should complete the following requirements for the Bachelor of Arts degree in music.

Music Core Curriculum

Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC 064</td>
<td>0</td>
</tr>
<tr>
<td>MUSC 101</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 131</td>
<td>1</td>
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<tr>
<td>MUSC 132</td>
<td>1</td>
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<tr>
<td>MUSC 165</td>
<td>1</td>
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<tr>
<td>MUSC 166</td>
<td>1</td>
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<td>MUSC 169</td>
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<tr>
<td>MUSC 265</td>
<td>1</td>
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<tr>
<td>MUSC 266</td>
<td>3</td>
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<tr>
<td>MUSC 266A</td>
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<tr>
<td>MUSC 274</td>
<td>1</td>
</tr>
<tr>
<td>MUSC 365</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 366</td>
<td>3</td>
</tr>
<tr>
<td>MUSR 068 Recitals (7 semesters)</td>
<td>0</td>
</tr>
</tbody>
</table>

*Not required for BA with minor in music or technology.

**BA with minor in music or technology requires five semesters.
### Additional Requirements for the Bachelor of Music Education Degree

The bachelor of music degree is recommended for students who have the desire and capacity to reach high standards of achievement in performance study. Students with creative talent may elect courses in composition and develop their abilities as composers.

The requirements for the degree include:

#### Summary of requirements—minimum 125 hours (as of Fall 2017)

Ten Integrative Studies [IS] courses are required for this degree. Students with transfer credit should consult their Evaluation of Transfer Credit for information about prorated courses.

M ore information about [IS] courses can be found on page 17.

#### Essential Studies Requirements—42

A ll courses must be selected from the lists found under “Approved Essential Studies [ES] Courses” on page 323, unless noted otherwise.

#### Professional and Music Education Requirements—41

#### Library

Library 110—1

#### Musical Performance—31-35

Applied area (lower-level 2 cr each; upper-level 3 cr or each).---20

#### Additional BME Requirements: Admittance to Music Teacher Education Program and Student Teaching

Admission to the Music Teacher Education Program is competitive and enrollment is limited. Application information may be obtained from the School of Music Office and must be completed by the end of the semester in which the first upper division methods course is taken.

1. Completion of at least 42 credit hours with a minimum 2.5 GPA.
2. Completion of EAC 331 with a minimum grade of C.
3. Passing scores on the PreProfessional Skills Test.
4. Completion of one course in communication studies selected from 109, 109H, 209, 209H, 212 or 311, or approved substitute.
5. Demonstration of professional promise which includes successful completion (grade of C or better) of (a) Upper Division Admission Requirements (M UAP 2XX, sem 2; M USC 266; M USC 266A; and M UAP 232 or piano proficiency) and (b) Professional Practicum Experience (M UED 297).

Student teaching is required for all students who are candidates for an appropriately endorsed Nebraska Teacher's Certificate. Students who plan to student teach during the fall semester must apply in the School of Music Office, 120 Westbrook, by the preceding March 1. Students who plan to student teach during the spring semester must apply by the preceding October 1.

During their student teaching semester, students are to be enrolled exclusively in courses that comprise the student teaching experience (M UED 403B, 497D, or 497Y, and 497Z). Students wishing to enroll in a degree requirement course while student teaching (in order to graduate at the end of the semester) may do so only with the permission of the Director of the School of Music. Students cannot enroll in classes that are not required for their degree.

The removal of an incomplete in student recitals (M USR 090, 091, or 490) during student teaching must have prior approval from the Director of the School of Music.

The basic requirements for admission to student teaching are:

1. M usic major in the H ixson-L ied College of Fine and Performing Arts, with no grade below C (2.0).
2. M inimum average of 2.5 or higher in professional and music education courses required in the student's program, with no grade below C (2.0).
3. M inimum average of 2.5 or higher in music endorsement courses required in the student's program, with no grade below C (2.0).
4. C ompletion of at least 42 credit hours with a minimum 2.5 GPA.
5. C ompletion of at least 42 credit hours with a minimum 2.5 GPA.
6. C ompletion of at least 42 credit hours with a minimum 2.5 GPA.
7. C ompletion of at least 42 credit hours with a minimum 2.5 GPA.
The basic program for student teaching in music provides for a full-day experience on a semester basis.

Requirements for the Minor in Music (Plan A) (19 cr)

- **Students must audition** for School of Music faculty for acceptance as a minor in music.
- Two semesters of MUSR 068 (0 cr)
- Three consecutive applied music courses (4 cr)

Approved ensemble courses (4 cr)

MUSC 101, 131, 165, 165A, 166, and 166A (MUSC 163 and 166A must be taken in the same academic year)

**NOTE:** All courses must be taken for a grade.

### Courses of Instruction

#### Core Curriculum (MUSC)

025. English and Italian Diction and Literature (MUSC 125) (0 cr) Stu 1.

For course description, see MUSC 125.

036. German Diction and Literature (MUSC 126, 127) (0 cr) Stu 2.

For course description, see MUSC 126.

027. French Diction and Literature (MUSC 127) (0 cr) Stu 2.

For course description, see MUSC 127.

064. Senior Assessment in Music (0 cr) Lec. Prereq: MUSC 365 or equivalent. Pass, No Pass only.

Demonstration of knowledge in music theory and history through completion of the Major Field Test in Music.

[ES/IS] 101. Introduction to Music (3 cr) Lec. 3 Prereq: MUSC major or minor, parallel with MUSC 131, 165 or 165H, 165A, and LIBR 110. 10 hr. on music majors and minors only. Introduction to the degree programs in music and resources for the study of music at the university level. Historical, social, and stylistic views of music in western and non-western cultures. Significance of music in cultural history, and the understanding of music as aesthetic expression. How to listen and appreciate the human and cultural values of music.

125. English and Italian Diction and Literature (MUSC 025) (2 cr) Stu 2.

The correct pronunciation and diction for singing in Italian and English. Some of the art songs that comprise the standard Italian and English vocal literature.

126. German Diction and Literature (MUSC 026) (2 cr) Stu 2.

The correct pronunciation and diction for singing in German. Some of the art songs that comprise the standard German vocal literature.

127. French Diction and Literature (MUSC 027) (2 cr) Stu 2.

The correct pronunciation and diction for singing in French. Some of the art songs that comprise the standard French vocal literature.

131. Keyboard Skills I (1 cr) Prereq: Parallel MUSC 165 and 165A.

Introduction to developmental piano technique for application to music theory, music reading, harmonization, improvisation, and other practical skills.

132. Keyboard Skills II (1 cr, max 1) Prereq: MUSC 131; Parallel MUSC 166 and 166A.

Continual development of functional piano skills such as sight-reading, harmonization, and improvisation.

165. Musicianship I (2 cr) Prereq: Permission; parallel with MUSC 131 and 165A.

Beginning fundamentals of music. Beginning theory (notation, rhythm, meter, pitch and melody, harmony, and form), overview of historical style periods and music of other cultures.

165A. Musicianship I Laboratory (1 cr) Parallel with MUSC 131 and 165A.

Intensive drill in skills (ear training, sight singing, and keyboard) to accompany MUSC 165.

165H. Honors Musicianship I (3 cr) Prereq: Good standing in the University Honors Program or by invitation; parallel MUSC 131.

Fundamentals of music (notation, rhythm, meter, pitch, harmony) and intensive drill in skills (ear training, sight singing, and keyboard) to accompany written concepts. The application of fundamentals to listening, performing, and thinking about music, seminars conducted by School of Music faculty.

166. Musicianship II (3 cr) Lec. 3, Lab. 3 Prereq: MUSC 165. Parallel MUSC 165A.

Diatonic harmony, introduction to modulation, species counterpoint, introduction to form and analysis (compositional processes and small forms).

166A. Laboratory-Musicianship II (1 cr, max 1) Parallel with MUSC 166.

Intensive drill in skills (ear training, sight singing, and keyboard) to accompany MUSC 166.

205. Musicianship III (3 cr) Prereq: MUSC 166; parallel MUSC 265A.

Chromatic harmony; continued study of modulation; invention and fugue; continued study of form and analysis (sonata, rondo, and concerto).

265A. Laboratory-Musicianship III (1 cr, Parallel MUSC 265.

Intensive drill in skills (ear training, sight singing, and keyboard) to accompany MUSC 265.

266. Musicianship IV (3 cr) Prereq: MUSC 265; parallel MUSC 266A.

C. Continued study of chromatic harmony (later nineteenth-century practice) and of form and analysis (Lied, theme and variations). Twentieth-century materials and techniques (new tonal resources, atonality).

266A. Laboratory-Musicianship IV (1 cr, Parallel MUSC 266.

Intensive drill in skills (ear training, sight singing, and keyboard) to accompany MUSC 266.

274. Beginning Conducting (1 cr) Prereq: Sophomore standing; MUSC 166 or 166A.

Introduction to conducting; score analysis, score reading, baton technique, traditional patterns and expressive use of gestures.

[ES/IS] 365. Music History and Literature I (3 cr, max 3) Prereq: MUSC 171, and BM E degrees MUSC 266, 266A, and MUP A 292. For BA degree (with a music major): MUSC 132, 266 and 266A. For BA degree (with a business emphasis): MUSC 132, 265 and 265A. 0 pen to music majors only.

M usic of the Middle Ages, Renaissance and Baroque, an examination of style and social context from Gregorian chant through the mid-eighteenth century.

[ES/IS] 366. Music History and Literature II (3 cr, max 3) Prereq: MUSC 365, and BM E degrees MUSC 266, 266A, and MUP A 292. For BA degree (with a music major): MUSC 132, 266 and 266A. For BA degree (with a business emphasis): MUSC 132, 266 and 266A. Open to music majors only.

M usic of the Classic and Romantic eras and the twentieth century. Style and social context from mid-eighteenth century to the present.

**Composition (MUCP)**

A student may have an emphasis in music composition, however, it must be accepted as a minor or an applied instrument of the student's choice. With the permission of the composition faculty, up to 16 hours credit may be substituted for the applied music requirement. Bachelor of music with emphasis in composition students will usually concentrate their applied music study in one area.

183. Composition I (2 cr, max 2) Prereq: Permission.

184. Composition II (2 cr, max 2) Prereq: Permission.

260. Beginning Songwriting (3 cr) Prereq: MUSC 171 or permission. Student must have some musical background which should include rudimentary knowledge of musical notation, and the ability to perform on an instrument (guitar or piano). Designed for the self-motivated student interested in the composition and notation of original vocal and instrumental music.

283. Composition III (2 cr) Prereq: MUSC 184.

284. Composition IV (2 cr) Prereq: MUSC 184.


Short composition exercises to review tonal musical materials and to bridge the gap to exercises in twentieth-century compositional techniques. Assignments on tonal harmony, chromaticism, the developmental process, microforms and macroforms. Common Practice Period and expanded chord vocabulary, new scale resources, serial techniques, and indeterminate procedures in the twentieth century.

383. Composition V (2-3 cr, max 3) Prereq: MUSC 284 or equivalent and permission.

384. Composition VI (2-3 cr, max 3) Prereq: MUSC 284 or equivalent and permission.


Refer to the Graduate Bulletin for 900-level courses.

### Independent Study, Seminars, or Thesis (MUSC)

[ES/IS] 189H. University Honors Seminar (3 cr, max 3) Prereq: Good standing in the University Honors Program or by invitation. University Honors Seminar 189H is required of all students in the University Honors Program. Topic varies.

198. Special Topics in Music (1-4 cr, max 24)

199. Special Topics in Music (1-3 cr, max 24) Prereq: Permission.

Investigation of selected topics in music.

199H. Honors Special Problems (1-4 cr, max 8) Prereq: 0 pen to candidates for degrees with distinction, with highest distinction in the Hixson-Lied College of Fine and Performing Arts.

199S. Special Topics in Music (1-3 cr) Prereq: Graduate standing and permission.

299. Masters Thesis or Original Composition (1-6 cr) Refer to the Graduate Bulletin for 900-level courses.

### Music Education (MUED)


Concepts of human development (cognitive, psychomotor, affective and social) affecting musical learning across childhood and adolescence. Principles of motivation, skill development, and assessment of learning as they relate to educational practices in music.

282. Music Technology: An Introduction and Overview (1 cr) Prereq: EDUC 131 or TEAC 331.

Introductory course that provides the music student with basic skills and understanding of computers in use for music processing (basic sequencing and notation) as well as the use of the Internet for music research and music education.

297. Professional Practice Experiences (1-2 cr, max 2) Guided participation and/or observations in schools and/or agencies offering programs for children/youth.

344. General Music Methods (3 cr) Prereq: Admission to the Music Teacher Education Program; MUSC 244. Preparation to teach music in elementary and secondary general music setting.

345. Instrumental Music Methods (3 cr) Prereq: Admission to the Music Teacher Education Program; MUSC 344. Preparation to teach music in elementary and secondary general music setting.

346. Choral Music Methods (3 cr) Prereq: Admission to Music Teacher Education Program; MUSC 344. Preparation to teach music in elementary and secondary general music setting.
10. Prerequisites: Admission to the Music Teacher Education Program or permission. Designed for College of Education and Human Sciences students who are working toward an elementary certificate. Prospective teachers of elementary school-age children are given the basic rudiments and methodology needed to implement music in the curriculum. Skills lab required.

374. Advanced Conducting (3 cr) Prereq: MUC 274. Techniques of choral and instrumental conducting, score reading and preparation of choral techniques, aural skills, practice strategies, and interpersonal considerations. Apects of arranging as they relate to the conductor's craft, transposition, orchestration, and analysis. Resources available to conductors and arrangers, books, software, videos, periodicals and Internet sites.

397. Professional Practicum Experiences (1-10 cr, max 10) Prereq: Admission to the Music Teacher Education Program or permission. Pass or P only. Supervised teaching experiences in school.
A. General Music (1-2 cr, max 2) Parallel with MUC 248.
B. Instrumental Music (1-2 cr, max 2) Parallel with MUC 248.
C. Choral Music (1-2 cr, max 2) Parallel with MUC 244.
D. Special Topic (1-2 cr) Parallel with MUC 248.

401. Special Issues in Music Education (1 cr, max 6) Prereq: MUC 344, 345 and 346. Advanced work in current issues and trends in specific aspects of pre-K to 12th grade music education.
A. General Music (1-2 cr)
B. Instrumental Music (1-2 cr)
C. Choral Music (1-2 cr)
D. Marching Band Techniques (1-2 cr)
E. Conducting Band Design (1-2 cr) Prereq: MUC 401.
F. Jazz Theory (1-2 cr)
G. Music Improvisation (1-2 cr)
H. Strings (1-2 cr)
I. Special Topic (1-2 cr)

403. Student Teaching Seminar (1 cr, max 2) Prereq: Parallel MUC 497 (Student Teaching). Analysis of K to 12th grade music teaching and learning. Opportunities for Pre-K to 12th grade music teachers to develop effective instructional experiences for Pre-K to 12th graders with various exceptionalities, including giftedness, Federal and state legislation, Individual Education Programs (IEPs), assessments, adaptations of curriculum materials, current methodologies, and research.

473 473. Approaches to Middle School General Music (3 cr) Prereq: MUC 244. For prospective new and experienced general music/middle school teachers. Characteristics of middle school students, materials, methodology, guitar and recorder techniques, and curriculum development.

482/882. Music Technology: Foundations and Principles (1-3 cr, max 3) Prereq: Admission to the Teacher Education Program. Fundamental skills in personal use of technology for information processing (integrative software), music processing (MIDI sequencing and music notation software), and Internet applications. Personal skills then applied to the effective integration of technology into Pre-K to 12th grade music curricula for both teaching and learning.

483/883. Music Technology: Advanced Techniques and Applications (1-3 cr, max 3) Prereq: MUC 482/882. Advanced music technology presented in seminar format focusing on particular areas of interest such as MIDI sequencing, advanced music notation, and the development of sound and MIDI files for multi-media use.

490. Workshop Seminar (1-12 cr, max 12) Prereq: MUC 345. Individual, scholarly studio designed to enable a student to pursue a selected topic in music education with the direction and guidance of a faculty member.

497. Student Teaching (1-2 cr, max 12) MUC 497D does not apply towards the master of music degree. Supervised teaching experiences in schools with accompanying seminar which focuses on: teaching techniques, teacher and students rights and responsibilities, professional conduct, teachers' legal aspects of education, and current issues which impact education.
A. General Music (1-2 cr, max 12)
B. Secondary Music (1-2 cr, max 12)
C. Multicultural (1 cr, max 1)

384. Advanced Instrumental Conducting (2-3 cr, max 6) Prereq: MUC 376.

386. Foundations Psychology/Sociology of Music (3 cr)

388. Inclusive Music Education (3 cr)

483. Introduction to Research in Music Education (1 cr) Prereq: Undergraduate degree in MUC 497D.

485. History and Philosophy Foundations of American Music Education (3 cr) Prereq: Undergraduate degree in MUC 497D.


892. Advanced Choral Conducting I (2-3 cr, max 6) Prereq: Permission.
893. Masters Research Project (1-6 cr) Prereq: MUC 483 or permission.

Refer to the Graduate Bulletin for 900-level courses.

Workshop Seminars in Music Education

490/890. Workshop Seminar (1-12 cr, max 12) Opportunity to learn and to put into practice the principles and techniques of music instruction.

493/893. Workshop Seminar (1-12 cr, max 12) Opportunity to learn and to put into practice the principles and techniques of music instruction.

Music History (MUSC)
A student may pursue a bachelor of music degree with a music history major.

109. Doctoral Colloquium (0 cr) Required for doctoral students during each semester of residence. The colloquium is a regularly scheduled meeting of faculty and doctoral students for the purpose of sharing ideas and the results of scholarly research.

277. Art Music in the Western World (MUN M 277) (3 cr) Prereq: MUN M 277. For course description, see MUN M 277.

280. World Music (MUN M 280) (3 cr, max 3) Introduction to basic etnomusicological terms and techniques, including the distinction between folk, pop, and art music. The first half of class on traditional folk music of Europe, Africa, and America. The second portion on the art music of the Near East, India, Indonesia, and China-Japan.

370. Honors:Women Making Music (MUN M 370H) (3 cr, max 3) Prereq: Good standing in the University Honors Program or permission. Popular and art music from the perspective of women.


490. Workshop Seminar (1-12 cr, max 12) Prereq: MUC 345. Individual, scholarly studio designed to enable a student to pursue a selected topic in music education with the direction and guidance of a faculty member.

168. Beginning Jazz Improvisation (MUN M 168) (2 cr, max 2) Prereq: Ability to read standard musical notation. No prior improvisation experience.

169. Intermediate Jazz Improvisation (MUN M 169) (2 cr) Prereq: MUC 366 or MUC 366H. Jazz improvisation for instrumentalists with or without prior improvisation experience.


222. Keyboard Skills I (MUAP 422/822) (1 cr, max 1) Prereq: Permission. Practice in sight-reading, improvisation, harmonization, and playing by ear.
Continuation of MUSC 422/822. Prereq: Permission.

### 433/833. Keyboard Skills II
**Prerequisite:** Piano, Organ, Guitar, Harp, or Double Bass

Refinement of skills gained in earlier courses with more advanced applications of chromatic chords, modulations, score reading, and basic accompanying.

### 232. Keyboard Skills IV
**Prerequisite:** MUSC 131 and 132; MUP 231. Final course for developing piano skills in preparation for the piano proficiency examination.

### 235. Class Instruction Voice
(1 cr)

### 236. Class Instruction in String Instruments
**Prerequisite:** Permission. Development of the skills and knowledge necessary to play and teach high and low string instruments in heterogeneous school settings. Goals include the development of a good working knowledge of solo and ensemble literature for students in school settings (grades 5-12).

### 237. Class Instruction in Brass Instruments
(1 cr)

### 238. Class Instruction in Flute and Clarinet
(1 cr)

### 239. Class Instruction in Percussion Instruments
(1 cr)

### 240. Class Instruction in Double Reed Woodwind Instruments and Saxophone
(1 cr)

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### MUDC/MUCO

#### Music Ensembles for Degree Credit (MUDC) are exclusively for music majors and minors to fulfill major and minor degree requirements. Music Ensembles for Elective Credit Only (MUCO) are for all other students, and music majors and minors who register for one ensemble per semester. All students (full-time music majors, music minors, students registered for applied music, and students with majors or minors outside music) participating in an ensemble in a given semester must register for a minimum of 1 MUDC or MUCO credit. Students participating in more than one ensemble during the same semester may register for zero credit for the additional ensembles using a MUCO ensemble number. All students who do not take applied lessons for credit in a given semester and are in an ensemble must register for the ensemble MUDC or MUCO for credit. No zero credit enrollment will be allowed for such students. Ensemble registrations may be repeated for credit. Ensembles taken in excess of degree requirements will only count as electives.

#### First Year/First Semester Student Ensemble Registration Policy
- All string majors must register for Orchestra (MUDC 242).
- All wind and percussion majors must register for Concert Choir (MUDC 242). Students participating in more than one ensemble during the same semester may register for zero credit for the additional ensembles using a MUCO ensemble number.
- All students who do not take applied lessons for credit in a given semester and are in an ensemble must register for the ensemble MUDC or MUCO for credit.

#### Requirements for Music Majors

Every full-time music major (12 credit hours or more) enrolled in applied music lessons must perform in an ensemble from the List of Approved Ensembles. Guitar majors may select Music Education or Music Composition majors as ensemble directors. Other instrumental or vocal majors must register for one ensemble per semester. Students who have not fulfilled ensemble degree requirements should register for one (and only one) MUDC ensemble per semester. The ensembles listed under the MUDC listing are the only ensembles that will fulfill the degree requirements Only 1 credit under the MUDC listing may be taken per semester, with the exception of the semester of registration for Concert Choir (MUDC 242) in which two MUDC ensembles may count toward degree requirements. Students may register for additional ensembles using the MUCO listing. Students in the music education degree program are exempt from ensemble participation during the semester in which they student teach. After the student has completed the minimum ensemble requirement for a degree, the student may participate in any ensembles listed below in the List of Approved Ensembles (plus MUDC 440A, 440B, or 344K for keyboard or composition majors or 344B for guitar majors).

### Bachelor of Music

*(see following List of approved Ensembles)*

#### Vocal Emphasis

- 1 credit Concert Choir (MUDC 242)
- 7 credits from Group I or IA or
- 5 credits from Group I or IA and 2 credits from Group II

#### Instrumental Emphasis (winds, strings, percussion)

- 1 credit Concert Choir (MUDC 242)
- 4 credits minimum from Group I or IA (wind & percussion majors min 3 cr in Wind Ensemble, Symphonic Band, or Orchestra; string majors min 3 cr in Orchestras)
- 3 credits from Group I, IA, or II

#### Piano Emphasis

- 1 credit Concert Choir (MUDC 242)
- 2 credits Group I or IA
- 5 credits from Chamber MUSC Keyboard Ensemble (MUDC 344K) and/or Accompanying (MUDC 440A and 440B)

#### Organ Emphasis

- 5 credits from Concert Choir (MUDC 242) or University Singers (MUDC 245 or 445)
- 3 credits in Chamber MUSC Keyboard Ensemble (MUDC 344K) and/or Accompanying (MUDC 440A and 440B)

#### History and Literature Emphasis

Students will select an applied emphasis [Vocal, Instrumental, Piano or Organ (#1-4 above)] and complete 6 credits from the List of Approved Ensembles.

#### Theory Emphasis

Students will select an applied emphasis [Vocal, Instrumental, Piano or Organ (#1-4 above)] and complete 6 credits from the List of Approved Ensembles.

#### Composition Emphasis

- 1 credit Concert Choir (MUDC 242)
- 7 credits selected from Group I, IA, or II on either the Instrumental or Vocal List of Approved Ensembles

### Guitar Emphasis

- 1 credit Concert Choir (MUDC 242)
- 2 credits from Group I or IA Instrumental or Vocal List of Approved Ensembles
- 5 credits from Vocal or Instrumental Group II or MUDC 344B (Chamber Guitar Ensemble)

### Bachelor of Music Education

*(see following List of approved Ensembles)*

#### Vocal Emphasis

- 1 credit Concert Choir (MUDC 242)
- 4 credits from Vocal Group I or IA

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**343/833. Keyboard Skills II**
(1 cr) Prereq: Permission. Continuation of MUSC 422/822.

### 811 (1-2 cr), 911 (1-4 cr)
**Voice**

### 812 (1-2 cr), 912 (1-4 cr)
**Piano**

### 813 (1-2 cr), 913 (1-4 cr)
**Organ**

### 814 (1-2 cr), 914 (1-4 cr)
**Guitar**

### 815 (1-2 cr), 915 (1-4 cr)
**Flute**

### 816 (1-2 cr), 916 (1-4 cr)
**Oboe**

### 817 (1-2 cr), 917 (1-4 cr)
**Clarinet**

### 818 (1-2 cr), 918 (1-4 cr)
**Bassoon**

### 819 (1-2 cr), 919 (1-4 cr)
**Trumpet**

### 820 (1-2 cr), 920 (1-4 cr)
**Percussion**

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**800A. Voice** (1 cr per sem)

**800B. Keyboard** (1 cr per sem)

**800D. String** (1 cr per sem)

**800E. Brass** (1 cr per sem)

**800G. Woodwind** (1 cr per sem)

**800J. Percussion** (1 cr per sem)

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### Ensembles

An audition is required for each ensemble. Contact the School of Music for audition information.
Music Ensembles for Degree Credit (MUDC)

241. All-Collegiate Choir (MUDC 441; MUCO 041, 241, 441) 1 (cr, max 12) Audition not required. Off-campus performances as approved by the instructor and the Director of the School of Music. For course description, see MUDC 441.

242. Concert Choir (MUDC 404, 242) (1 cr, max 12) Stu 3. Prereq: Freshman standing; music major and/or minor. Off-campus performances as approved by the instructor and the Director of the School of Music. For course description, see MUDC 441.

246. University Chorale (MUDC 446; MUCO 046, 246, 446) (1 cr, max 12) Stu 3.0 ppen to audition or permission. Off-campus performances as approved by the instructor and the Director of the School of Music. For course description, see MUDC 444.

247. Orchestra (MUDC 447; MUCO 047, 247, 447) (1 cr, max 12) Must meet and maintain full-time status at UNL. First round auditions must be completed by July 1. For course description, see MUDC 446.

248. Band (MUDC 448; MUCO 048, 248, 448) (1 cr, max 12) Stu 3. Prereq: Audition or permission of instructor and the Director of the School of Music. Required for supervision and scheduled rehearsals of music appropriate for the ensemble. For course description, see MUDC 448.

250. Jazz Ensemble (MUCO 050, 250, 450) (1 cr, max 12) Stu 3. Prereq: Off-campus performances as approved by the instructor and the Director of the School of Music. For course description, see MUDC 450.

251. Big Red Singers (MUCO 051, 251, 451) (1 cr, max 12) Stu 5, Prereq: 2.0 GPA. Must meet and maintain full-time status at UNL. First round auditions must be completed by July 1. For course description, see MUDC 451.

244. Chamber Music (1 cr, max 24) Stu. 0 Off-campus performances as approved. For course description, see MUCO 444.

344. Varsity Chorus (MUCO 043, 243, 443) 0 (0 cr) Prereq: Tenor or bass voice. Audition not required. Off-campus performances as approved by the instructor and the Director of the School of Music. Performance of Broadway and other contemporary repertoire. For course description, see MUCO 443.

Music Ensembles for Elective Credit Only (MUCO)

041. All-Collegiate Choir (MUCO 241, 441) 0 (0 cr) Audition not required. Off-campus performances as approved by the instructor and the Director of the School of Music. For course description, see MUCO 444.

042. Concert Choir (MUCO 242, 442) 0 (0 cr) Prereq: Freshman standing; music major and/or minor. Off-campus performances as approved by the instructor and the Director of the School of Music. For course description, see MUCO 444.

043. Varsity Chorus (MUCO 243, 443) 0 (0 cr) Prereq: Tenor or bass voice. Audition not required. Off-campus performances as approved by the instructor and the Director of the School of Music. Performance of Broadway and other contemporary repertoire. For course description, see MUCO 443.
- **B. Jazz Ensemble I (1 cr, max 12)**
- **C. Jazz Ensemble II (1 cr, max 12)**
- **D. Jazz Vocal Ensemble (1 cr, max 12)**

251. **Big Red Singers (MUCO 251, MUDC 051, 451)** (1 cr, max 12) Stu 5, Prereq: 2.0 GPA. Audition required. Must meet and maintain full-time status at UNL.

For course description, see MUDC 451.

344. **Small Ensembles (MUCO 044)** (1 cr, max 12) Stu 3, Prereq: Audition required. Must meet and maintain full-time enrollment status at UNL. May require off-campus travel. Off-campus performances as approved by the D instructor of Jazz Activities and the Director of the School of Music.

For course description, see MUDC 448.

350. **Jazz Ensemble (MUCO 050, 450; MUDC 250, 450)** 1 cr, max 12) Stu 3, Prereq: Open by audition or permission of the D instructor of Jazz Activities and the Director of the School of Music.

For course description, see MUDC 441.

350A. **A. String Ensemble (1 cr, max 12)**
- **B. Brass Ensemble (1 cr, max 12)**
- **C. Clarinet Choir (1 cr, max 12)**
- **D. Clarinet Choir (1 cr, max 12)**
- **E. Flute Ensemble (1 cr, max 12)**
- **F. Trombone Ensemble (1 cr, max 12)**
- **G. Trumpet Ensemble (1 cr, max 12)**
- **H. Saxophone Ensemble (1 cr, max 12)**
- **I. New Music Consort (1 cr, max 12)**
- **J. Small Vocal Ensemble (1 cr, max 12)**
- **K. Small Vocal Ensemble (1 cr, max 12)**
- **L. Tubas/Euphonium Ensemble (1 cr, max 12)**
- **M. Small Group (1 cr, max 12)**
- **N. String Choir (1 cr, max 12)**
- **O. String Choir (1 cr, max 12)**
- **P. Percussion Ensemble (1 cr, max 12)**
- **Q. Tuba/Euphonium Ensemble (1 cr, max 12)**
- **R. Tuba/Euphonium Ensemble (1 cr, max 12)**
- **S. Wind Ensemble (1 cr, max 12)**
- **T. Wind Ensemble (1 cr, max 12)**
- **U. Wind Ensemble (1 cr, max 12)**
- **V. Wind Ensemble (1 cr, max 12)**
- **W. Wind Ensemble (1 cr, max 12)**
- **X. Wind Ensemble (1 cr, max 12)**
- **Y. Wind Ensemble (1 cr, max 12)**
- **Z. Wind Ensemble (1 cr, max 12)**

352. **Chamber Music (MUCO 052, MUDC 352)** (1 cr, max 12) Stu 2, 0.5 cr-off-campus performances as approved. Open only to students whose applied related instrument is piano, organ, or guitar. For course description, see MUDC 352.

352A/352B. **A. Accompanying Vocal (1 cr, max 5)**
- **B. Accompanying Vocal (1 cr, max 5)**
- **C. Accompanying Vocal (1 cr, max 5)**
- **D. Accompanying Vocal (1 cr, max 5)**

363. **Big Red Singers (MUCO 251, MUDC 051, 451)** (1 cr, max 12) Prereq: 2.0 GPA. Audition required. Must meet and maintain full-time status at UNL.

For course description, see MUDC 447.

363. **Jazz Ensemble I (1 cr, max 12)**
- **Jazz Ensemble II (1 cr, max 12)**
- **Jazz Vocal Ensemble I (1 cr, max 12)**
- **Jazz Vocal Ensemble II (1 cr, max 12)**

365. **The University Singers (MUCO 245, 445; MUDC 245, 445)** (0 cr) Audition required.

For course description, see MUDC 445.

366. **University Chorale (MUCO 246, 446; MUDC 246, 446)** (0 cr) Open by audition or permission. Off-campus performances as approved by the instructor and the Director of the School of Music. For course description, see MUDC 445.

367. **Concert Choir (MUCO 042, MUDC 242)** (1 cr, max 12) Stu 3, Prereq: Freshman standing; music major and/or minor. 0.5 cr-permanent, only by supervisor's permission. Begin or continue previous choral experience.

For course description, see MUDC 242.

368. **Varsity Chorus (MUCO 243, 443; MUDC 443)** (1 cr, max 12) Stu 1, Prereq: Tenor or bass voice. Admission required.

For course description, see MUDC 443.

369. **The University Singers (MUCO 045, 445; MUDC 245, 445)** (1 cr, max 12) Stu 3, 0.5 cr required.

For course description, see MUDC 445.

370. **University Chorale (MUCO 046, 446; MUDC 246, 446)** (1 cr, max 12) Stu 3, 0.5 cr-permanent, only by supervisor's permission. Off-campus performances as approved by the instructor and the Director of the School of Music.

For course description, see MUDC 446.

371. **Band (MUCO 048, 448; MUDC 248, 448)** (1 cr, max 12) Stu 3, Prereq: Open by audition or permission of the D instructor of Jazz Activities and the Director of the School of Music.

For course description, see MUDC 447.

372. **A. Wind Ensemble (1 cr, max 12)**
- **B. Symphonic Band (1 cr, max 12)**
- **C. Marching Band (1 cr, max 12)**
- **D. Marching Band (1 cr, max 12)**

373. **Big Red Singers (MUCO 251, MUDC 051, 451)** (1 cr, max 12) Stu 5, Prereq: 2.0 GPA. Audition required. Must meet and maintain full-time enrollment status at UNL. First round auditions must be completed by July 1.

For course description, see MUDC 451.

374. **Small Ensembles (MUCO 044)** (1 cr, max 12) Stu 3, Prereq: Audition, 2.0 GPA. Must meet and maintain full-time enrollment status at UNL. May require off-campus travel. Off-campus performances as approved by the D instructor of Jazz Activities and the Director of the School of Music.

For course description, see MUDC 448.

375. **Jazz Ensemble (MUCO 050, 450; MUDC 250, 450)** 1 cr, max 12) Stu 3, Prereq: Open by audition or permission of the D instructor of Jazz Activities and the Director of the School of Music.

For course description, see MUDC 441.

376. **A. Wind Ensemble (1 cr, max 12)**
- **B. Symphonic Band (1 cr, max 12)**
- **C. Marching Band (1 cr, max 12)**
- **D. Marching Band (1 cr, max 12)**

377. **Jazz Ensemble (MUCO 050, 250, 450, 450)** (1 cr, max 12) Stu 3, Prereq: Open by audition or permission of the D instructor of Jazz Activities and the Director of the School of Music.

For course description, see MUDC 447.

378. **Band (MUCO 048, 448; MUDC 248, 448)** (1 cr, max 12) Stu 3, Prereq: Open by audition or permission of the D instructor of Jazz Activities and the Director of the School of Music. Requires off-campus performances as approved.

For course description, see MUDC 448.
Applied Music for Non-majors (MUNM)

Applied music instruction is available to non-music majors or minors on a space-available basis. Students are required to obtain permission from the faculty member before registration is completed. There is an $80 fee in addition to tuition charge. The fee will be assessed on the student's tuition statement.

All students taking applied music must perform in an ensemble unless their instructor determines they are not qualified to do so. Students audition to determine their placement and participate in an ensemble during each semester of applied study.

For registration, each student must obtain a written permission form from the music office each semester. The permission form provides the information the student must have in order to register. Early registration for applied lessons for non-majors is not allowed.

Students will use 100-level applied music registrations until they have 4 credits, at which time they will register in the 200 series. Eight applied music credits must be accumulated before registering in the 300 series. Twelve credits are required for registering at the 400 level.

100. Beginning Applied Music

Prereq: Permission and written permission from School of Music. This is not a count toward requirements for music major or minor. No pre-registration, since majors and minors must be assigned first to the available instructors. A applied music instruction fee of $80 will be charged in addition to tuition for credit hour.

Applied music lessons in voice or instrument for beginners; private or group, at instructor’s discretion.

A. Voice (1 cr, max 4)
B. Keyboard (1 cr, max 4)
D. Strings (1 cr, max 4)
E. Brass (1 cr, max 4)
G. Woodwind (1 cr, max 4)
J. Percussion (1 cr, max 4)

200. Applied Music

Prereq: Permission and written permission from School of Music. Grade only. May not count toward requirements for music major or minor. No pre-registration, since majors and minors must be assigned first to the available instructors. A applied music instruction fee of $80 will be charged in addition to tuition for credit hour.

Applied music lessons in voice or instrument for beginners; private or group, at instructor’s discretion.

A. Voice (1 cr, max 4)
B. Keyboard (1 cr, max 4)
D. Strings (1 cr, max 4)
E. Brass (1 cr, max 4)
G. Woodwind (1 cr, max 4)
J. Percussion (1 cr, max 4)

300. Applied Music

Prereq: Permission and written permission from School of Music. Grade only. May not count toward requirements for music major or minor. No pre-registration, since majors and minors must be assigned first to the available instructors. A applied music instruction fee of $80 will be charged in addition to tuition for credit hour.

Applied music lessons in voice or instrument for beginners; private or group, at instructor’s discretion.

A. Voice (1 cr, max 4)
B. Keyboard (1 cr, max 4)
D. Strings (1 cr, max 4)
E. Brass (1 cr, max 4)
G. Woodwind (1 cr, max 4)
J. Percussion (1 cr, max 4)

Requirements for the Minor in Musical Theatre for Theatre Majors (Plan A) (25 cr)

- MUSC 101, 131, 132, 165, 165A (8 cr)
- MUP 455 (3 cr)
- Applied voice (5 cr)
- C horal ensembles (2 cr)
- Productions (2 cr)
- Dance (movement) courses (5 cr)

Requirements for the Minor in Musical Theatre for Music Majors (Plan A) (25 cr)

- THEA 112G, 114, 115, 224, 255, 285 or 286, 455 (20 cr)
- Dance (movement) courses (5 cr)

Theatre Arts

Director: Paul Steger, 215 Temple Building
Professor: Grange, M Illyer, Steger
Associate Professors: Brown, Endacott, M a, H. Smith, V. Smith, E. Stauffer, J. Stauffer, Teo
Assistant Professor: Thomas

The Johnny Carson School of Film and Television

The Johnny Carson School of Film and Television offers the bachelor of arts degree with emphases in performance or directing, dramaturgy and stage management, and the bachelor of fine arts degree with emphases in design/technical production or film and new media. An audition is required for acceptance into the Performance emphasis. A separate application and portfolio review is required for acceptance into either the Performance or Design/Technical Production emphasis.

Course Descriptions:

- Survey of the development of American jazz music from the late nineteenth century to the present, with emphasis on black ethnic origins and the stylistic idioms of individual performers.
- The arts of the 20th Century: 1945-Present
- Applied Music for Non-majors
- Musical Theatre for Music Majors
- Musical Theatre for Theatre Majors
- Performing Arts for Non-majors
- American Cultural Perspectives through Popular Music and Dance
- Musical Theatre for Theatre Majors (Plan A)
- Musical Theatre for Music Majors (Plan A)
- Theatre Arts

Requirements for the Major in Theatre Arts

Bachelor of Arts Degree

The requirements for the bachelor of arts degree consist of 30 credit hours of core requirements which are supplemented by 28 additional credit hours of theatre arts courses in one of two designated emphases for a total of 58 credit hours in the major. No minor is required. Upon admission to the degree program, students must begin to pursue either of the two emphases.

Students wishing to complete the performance emphasis views and screened for continuation in that emphasis when they are enrolled in THEA 224 Intermediate Acting I (typically their third semester as theatre majors). The review includes an interview, an audition, and an analysis of the overall academic and artistic record; all of which are used to determine potential for success throughout the course of study. A student is required to enroll in THEA 224 Intermediate Acting II and in subsequent required performance emphasis courses.

Students must apply for admission to the directing, dramaturgy and stage management (DSD) emphasis by completing an application form, supplying references, a resume, and examples of creative work. The acceptance process includes an interview and analysis of the overall academic and artistic record, and determination of the potential for success throughout the course of study. An interview and portfolio review will be scheduled with DSD students after their third semester to determine whether they may continue in the directing, dramaturgy and stage management emphasis.

Ten Integrative Studies [IS] courses are required for this degree. Students with transfer credit should consult their Evaluation of Transfer Credit for information about prorated courses. More information about [IS] courses can be found on page 17.

Essential Studies Requirements

All courses must be selected from the following list of areas:

Area A: Communication.............................8
Area B: American History and Institutions..............6
Area C: American History and Institutions..............3
Area D: Communication.............................3
Area E: Communication.............................3
Area F: Communication.............................3
Area G: Communication.............................3
Area H: Communication.............................3
Area I: Communication.............................3
Area J: Communication.............................3
Area K: Communication.............................3
Area L: Communication.............................3
Area M: Communication.............................3
Area N: Communication.............................3
Area O: Communication.............................3
Area P: Communication.............................3
Area Q: Communication.............................3
Area R: Communication.............................3
Area S: Communication.............................3
Area T: Communication.............................3
Area U: Communication.............................3
Area V: Communication.............................3
Area W: Communication.............................3
Area X: Communication.............................3
Area Y: Communication.............................3
Area Z: Communication.............................3

- A 400-level course in the History of the United States, Economics, Government, or Business.
- A course in the natural sciences.
- A course in the social sciences.
- A course in the humanities.
- A course in the fine arts.
- A course in the foreign languages.
- A course in the philosophy.
- A course in the history of the United States.
- A course in the business.
- A course in the economics.
- A course in the government.
- A course in the politics.
- A course in the religion.
- A course in the technology.
- A course in the engineering.
- A course in the architecture.
- A course in the design.
- A course in the mathematics.
- A course in the sciences.
- A course in the health.
- A course in the arts.
- A course in the humanities.
- A course in the philosophy.
- A course in the history.
- A course in the government.
- A course in the politics.
- A course in the religion.
- A course in the technology.
- A course in the engineering.
- A course in the architecture.
- A course in the design.
- A course in the mathematics.
- A course in the sciences.
- A course in the health.
- A course in the arts.
- A course in the humanities.
- A course in the philosophy.
- A course in the history.
- A course in the government.
- A course in the politics.
- A course in the religion.
- A course in the technology.
- A course in the engineering.
- A course in the architecture.
Electives ................................................. 4-20
Emphasis Requirements.............................. 28
Area H. Ethnicity and Gender.............................. 3
Area I. Languages........................................... 0-18

Library 110 ..................................................1

Theatre Core Requirements ............................ 31
THEA 112G. Intro to Theatre (3 cr)
THEA 114. Basic Acting I (3 cr)
THEA 115. Basic Acting II (3 cr)
THEA 201. Technical Theatre Practice (3 cr)
THEA 217. Theatrical Production 3 (cr)
THEA 335. History of Theatre I (3 cr)
THEA 336. History of Theatre II (3 cr)

Emphasis Requirements .................................. 28
See lists below.

Electives ............................................... 4-20

Total hours required for graduation ................. 125

Performance Emphasis Requirements (28 cr)
THEA 223. Intermediate Acting I (3 cr)
THEA 224. Intermediate Acting II (3 cr)
THEA 253. Voice Production for the Stage (3 cr)
THEA 254. Stage Direction I and I (3 cr)
THEA 255. Stage Movement I (3 cr)
THEA 401. Advanced Acting (3 cr)
THEA 408. Advanced Projects in Acting and/or Directing (1 cr)

0-6 course from:
THEA 410. Stage Lighting I (3 cr)
THEA 412. Scene Design I (3 cr)
THEA 418. Costume Design I (3 cr)
THEA 450. Sound Design I (3 cr)

Directing, Dramaturgy, Stage Management Emphasis Requirements (28 cr)
THEA 300. Stage Management (3 cr)
THEA 303. Stage Direction II (3 cr)
THEA 338. Dramaturgy (3 cr)
THEA 424. DDS Seminar I (3 cr)
THEA 425. DDS Seminar II (3 cr)
THEA 491. Advanced Projects in Directing, Dramaturgy, Stage Management: four projects from one area or mixed areas (4 cr)

3-6 course from:
THEA 253. Voice Production for the Stage (3 cr)
THEA 410. Stage Lighting I (3 cr)
THEA 412. Scene Design I (3 cr)
THEA 418. Costume Design I (3 cr)
THEA 450. Sound Design I (3 cr)

Bachelor of Fine Arts Degree

This degree program offers two emphases, one in design/technical production and the other in film and media. The design/technical production emphasis is for those desiring concentrated training/education in scenic, lighting, sound, and costume design, and technical theatre production. The student does not pursue a minor. Other theatre arts courses may be taken as electives in the major.

Ten Integrative Studies [IS] courses are required for this degree. Students with transfer credit should consult their Evaluation of Transfer Credit form for information about prorated courses. More information about IS courses can be found on page 17.

Essential Studies Requirements .................................. 30
A ll courses must be selected from the lists found under "Approved Essential Studies [ES] Courses" on page 124, unless otherwise noted.
Area A. Communication ................................... 6
Area B. Mathematics and Statistics ........................ 3
Area C. Human Behavior, Culture, and Society ....... 6
Area D. Science and Technology .......................... 3
Area E. Historical Studies ................................... 3
Area F. Humanities ........................................... 3
Area G. Arts .................................................... 3
Area H. Ethnicity and Gender ............................... 3

Library 110 ..................................................1

Theatre Core Requirements ............................ 31
THEA 112G. Intro to Theatre (3 cr)
THEA 114. Basic Acting I (3 cr)
THEA 115. Basic Acting II (3 cr)
THEA 201. Technical Theatre Practice (3 cr)
THEA 202. Play Direction I (3 cr)
THEA 204. Stage Movement I (3 cr)
THEA 234. Scripts in Performance (3 cr)
THEA 255. Stage Movement I (3 cr)
THEA 335. History of Theatre I (3 cr)
THEA 336. History of Theatre II (3 cr)

Emphasis Requirements .................................. 28
See lists below.

Electives ............................................... 4-20

Total hours required for graduation ................. 125

Design/Technical Production Emphasis Requirements
THEA 285/286. University Theatre (2 cr)
THEA 335. Theatre History I (3 cr)
THEA 336. Theatre History II (3 cr)
THEA 409. Advanced Projects in Technical Theatre (4 cr)
THEA 410. Stage Lighting I (3 cr)
THEA 411. Stage Lighting II (3 cr)
THEA 412. Scene Design I (3 cr)
THEA 413. Scene Design II (3 cr)
THEA 418. Costume Design I (3 cr)
THEA 419. Costume Design II (3 cr)
THEA 421. Drafting for the Theatre (3 cr)
THEA 432. Scene Painting (3 cr)
THEA 450. Sound Design I (3 cr)
THEA 472. Theatre Perspectives (3 cr)
THEA 445. History of Furniture (3 cr)
THEA 407. History of Costume (3 cr)

Two courses from the following (additional courses may be taken for elective credit):
THEA 204. Stage Movement (3 cr)
THEA 300. Stage Management (3 cr)
THEA 416. CAD for Theatre (3 cr)
THEA 420. Problems in Technical Theatre (3 cr)
THEA 451. Sound Design II (3 cr)
THEA 457. Stage Rigging I (3 cr)

Additional electives that may be taken in Theatre
THEA 303. Play Direction II (3 cr)
THEA 331. Intro to Playwriting (3 cr)
THEA 388. Arts of the 20th Century: 1900-1945 (3 cr)
THEA 389. Arts of the 20th Century: 1945-Present (3 cr)
THEA 414. Stage Lighting III (3 cr)
THEA 422. Theatre Architecture (3 cr)
THEA 426. Lighting for Film (3 cr)
THEA 427. The American Theatre I (3 cr)
THEA 482. The American Theatre II (3 cr)
THEA 431. Advanced Playwriting (3 cr)
THEA 440. Continental Drama (3 cr)
THEA 480. Technological Innovations in Film Production (3 cr)
THEA 481. Screenwriting: The Short Script (3 cr)
THEA 482. Film Production I (3 cr)
THEA 487. Digital Design & Animation (3 cr)
THEA 488. New Media Production I (3 cr)
THEA 489. Film Production II (3 cr)

Film and New Media Emphasis Requirements
Students must apply for admission to the BFA emphasis in Film and New Media (FNM) by completing an application and supplying references, a resume and examples of creative work. This application applies to both new students and transfer students. Students who are applying for transfer into the program must complete the application and provide grade transcripts demonstrating a 3.0 current and cumulative GPA or higher. Students should contact the Johnny Carson School of Theatre and Film for information and application materials. Once the application materials have been received, the student will be notified by the school if accepted to the FNM emphasis. If accepted, a student must maintain a 3.0 current and cumulative GPA from that point forward, complete a portfolio review (after taking THEA 482), and receive approval from the FNM faculty before they may grant full FNM student status. The Johnny Carson School of Theatre and Film reserves the right to limit the total number of FNM students accepted and FNM students allowed to continue in the emphasis.
THEA 331. Intro to Playwriting (3 cr)
THEA 480. Technological Innovations in Film Production (3 cr)
THEA 481. Screenwriting: The Short Script (3 cr)
THEA 482. Film Production I (3 cr)
THEA 488. New Media Production I (3 cr)
THEA 489. Film Production II (3 cr)

A total of 9 cr from:
THEA 410. Stage Lighting I (3 cr)
THEA 411. Stage Lighting II (3 cr)
THEA 412. Scene Design I (3 cr)
THEA 413. Scene Design II (3 cr)
THEA 418. Costume Design I (3 cr)
THEA 419. Costume Design II (3 cr)
THEA 421. Drafting for the Theatre (3 cr)
THEA 432. Scene Painting (3 cr)
THEA 450. Sound Design I (3 cr)
THEA 452. Rendering I (3 cr)
THEA 472. Theatre Perspectives (3 cr)
THEA 445. History of Furniture (3 cr)
THEA 407. History of Costume (3 cr)

In addition to the Film and New Media Emphasis Requirements listed above, FNM Emphasis students must take at least 24 credits from the following list of elective courses. No more than 9 credits may be taken from the list of English Department courses.
THEA 416. CAD for Theatre (3 cr)
THEA 426. Lighting for Film (3 cr)
THEA 454. Sound for Film (3 cr)
THEA 485. Post Production for Film & New Media (3 cr)
THEA 486. Film: Producing & Directing (3 cr)
THEA 487. Digital Design & Animation I (3 cr)
THEA 489. Film Production II (3 cr)

TEN IMPORTANT STUDENTS ARE ACCEPTED EVERY SEASON, SO WE RECOMMEND APPLYING SOON. UPON ACCEPTANCE, A STUDENT MUST MAINTAIN A 3.0 CURRENT AND CUMULATIVE GPA FROM THAT POINT FORWARD, COMPLETE A PORTFOLIO REVIEW (AFTE
Requirements for the Minor in Theatre Arts (Plan A) (18 hours)

- THEA 112G, 114, 201, 202, 235 or 336 (15 cr)
- 3 hrs from the following: THEA 115, 234, 300, 410, 412, 418, 427, 428, 431, 440

Courses of Instruction

Theatre (THEA)

[ES][IS] 112G. Introduction to Theatre (3 cr)
Introduction to the forms and functions of theatre and dramatic literature in the historical development of Western cultural traditions. While the theatre always reflects the aesthetic and philosophical concerns of the cultural era, the objective of the course is to determine the unique aesthetics of the theatre as an art form by exploring such issues as the relationship between the literary text and the text in performance; the changing role of theatre in culture historically; the various theatre research methods (historical, critical, experimental).

[ES][IS] 112H. Honors Introduction to Theatre (3 cr)
Prereq: Good standing in the University Honors Program or by invitation.
For course description, see THEA 112G.

114. Basic Acting Techniques I (3 cr)
Introduction to the essentials of the actor's craft: concentration, relaxation, sensory awareness, improvisation, and basic script analysis.

115. Basic Acting Techniques II (3 cr)
Prereq: THEA 114. Continuation of THEA 114, with greater emphasis on the development of emotional control as it applies to scenic work.

Principles of Design for Theatre and Film (3 cr)
Lect, lab. Prereq: Theatre major or permission. Introduction to the basic elements of design and the development of visual and perceptual skills. Develop an extensive portfolio of 2D and 3D visual projects through experimentation with various media.

189H. University Honors Seminar (3 cr)
Prereq: Good standing in the University Honors Program or by invitation. University Honors Seminar 189H is required of all students in the University Honors Program.
Topic varies.

199. Independent Study (1-3 cr, max 6)
Prereq: Permission.

201. Technical Theatre Practice (3 cr)
Lect, 2 lab. Basic theoretical and practical application of the technical theatre production, including scenery design, construction, use and requirements and related areas that are considered scenic or influence scenery, its design and construction. Related areas include types of stage, facilities equipment and tool use and maintenance, materials, drafting fundamentals, painting, moving scenery, properties and safety.

202. Play Direction I (3 cr)
Lect, 2 lab. Prereq: THEA 112G or 114, and permission. Fundamental concepts of play direction, selection, script analysis and interpretation, artistic choices, articulating of ideas, communication with actors and critics. Rehearsal and presentation of real scenes.

204. Stage Makeup (3 cr)
Prereq or parallel: 3 hrs theatre arts introduction to the methods and techniques of makeup.

223. Intermediate Acting I (3 cr)
Lect, 1 lab. Prereq: THEA 115, 235, 233, or equivalent and permission. Intensive concentration, emotional and sensory work focused on the problems of characterization. Emphasis on close script analysis and scenic work.

224. Intermediate Acting II (3 cr)
Prereq: THEA 222 or equivalent and permission. Continuation of THEA 223. Development of a sensitive emotional instrument as it affects characterization. Scene study and appropriate exercises in concentration and sensory development.

253. Voice Production for the Stage (3 cr)
Prereq: THEA 115.
Training in the use of voice for the stage, including anatomy of the voice-producing mechanism, the actor's improvement of voice, breath control for the theatre, resonance and flexibility of tone for characterization, and vocal response to a wide range of emotional stimuli in dramatic literature.

254. Stage Diction and Dialects (3 cr)
Prereq: THEA 253. Application of phonetics to classical and modern dialects. Manner of speech and characterization on stage of the distinguishing characteristics of foreign dialects, regional variants, and stage dialects.

255. Stage Movement I (3 cr)
Prereq: THEA 115. Movement training focusing on the process of building a physical characterization, physical conditioning and flexibility, kinesthetic awareness, and movement improvisation.

256. Stage Movement II (3 cr)
Prereq: THEA 255. Application of the techniques developed in THEA 255 to the plays of Shakespeare, Molière, and selected Commedia dell'Arte.

286. University Theatre I (1-2 cr, max 4)
Prereq: Permission. Use of the University Theatre Laboratory. Intensive application of principles of interpretive and technical theatre practice.

288. University Theatre II (1-2 cr, max 4)
Prereq: Permission. Use of the University Theatre Laboratory. Intensive application of principles of interpretive and technical theatre practice.

300. Stage Management (3 cr)
Prereq: 12 hrs THEA or equivalent. Survey of management techniques for the theatre including theoretical and practical application.

301. Theatre Management (3 cr)

302. Play Direction II (3 cr)
Lect 1, lab 2. Prereq: THEA 202 or permission. Exploration of and styles of play direction from Classical Greek to Contemporary American realism and theatre for young audiences. Rehearsal and production of student directed scenes and short plays in Laboratory Theatre.

311. Introduction to Playwriting (3 cr)
Lect, 4 lab. Prereq: ENGL 150 and 151. Beginning writing for the theatre starting with the composition of short dramatic scenes and working toward the completion of a one-act play.

313. History of Theatre I (3 cr)

315. History of Theatre II (3 cr)
Lect, 3 pr. Prereq: THEA 112G. Theatre from French Neoclassicism to the present.

337. Creative Drama: Improvisation with Youth (3 cr)
Prereq: 12 hrs theatre arts or permission. Survey and application of the major aspects of making and leading improvisation with young people.

338. Dramaturgy (3 cr)
Prereq: THEA 202 and 234. Fundamental concepts of dramaturgy. Theoretical and practical applications.

388. Arts of the 20th Century: 1900-1945 (AHIS 388) (3 cr)
Prereq: MUNM 388 (3 cr). THEA 388 will not count towards the major or minor in studio art and/or art history.
For course description, see AHIS 388.

389. Arts of the 20th Century: 1945-Present (AHIS 389) (3 cr)
Prereq: MUNM 389 (3 cr). THEA 389 will not count towards the major or minor in studio art and/or art history.
For course description, see AHIS 389.

399. Special Topics in Theatre (1-2 cr, max 24)
Prereq: Permission.

401/402. Advanced Acting (3 cr per sem, max 12)
Prereq: THEA 224 and permission. Actor's methods of character development in the major styles of acting including Realistic, Directing, Elizabethan, Comedy. Theatre of the Absurd, Musical Theatre, and others, and the acting profession itself. Specific content for each semester may be obtained from the teaching faculty.

402/403. Advanced Stage Movement (2 cr per sem, max 8)
Prereq: THEA 224, 256, or equivalent and permission. Actor movement training intended for the graduate and advanced undergraduate. Focus on the process of building a physical characterization, tumbling, kinesthetic awareness, movement improvisation, period styles, court dances, martial, Commedia dell'Arte, and stage combat.

403/404. Advanced Stage Voice (2 cr per sem, max 8)
Prereq: THEA 224, 254, or equivalent and permission. Actor's voice training intended for the graduate and advanced undergraduate. Intensive work in building the voice as an expressive instrument for characterization and in the application of voice to stage action.

407. Auditioning (1 cr)
Prereq: THEA 114, 115, 225, 224 and permission.
Auditioning process, including resumes, interviews, preparation of pieces, forms, styles, and genres, cold readings, songs, etc.

408. Advanced Projects in Acting and/or Directing (408: 1-3 cr per sem, max 9; 408: 1-3 cr per sem, max 12)
Prereq: Acting (THEA 222 or 115, 114, 204, 401, 801) or equivalent and permission. Directing: THEA 203, 402, 801, 403, 408, 410, 412, 418, 818, and permission. Selective performance and directing in University Theatre, and Experimental Theatre.

409. Advanced Projects in Technical Theatre (409: 1-3 cr per sem, max 9; 409: 1-3 cr per sem, max 12)
Prereq: THEA 410, 412, 418, 818 or equivalent and permission. Projects in scene design, costume design, lighting design, sound design, or technical direction. Planning and execution of design for actual production.

410/411. Stage Lighting (1-2 cr)

411/412. Stage Lighting II (1-2 cr)
Lect, 2 lab. Prereq: THEA 410, 412, 418, 818 or equivalent and permission. Intensive work in designing lighting for theatre, dance, musicals, and opera.

412/412. Scene Design (3 cr)
Lect, 2 lab. Prereq: 12 hrs theatre arts including THEA 201 and 202. Theory and practice of scene design. Application of the principles of design to stage settings. Development of the scenic design through play sketches, color plates, models, and drawings.

413/413. Scene Design II (3 cr)
Lect, 2 lab. Prereq: 12 hrs theatre arts, including THEA 201 and 202. Theory and practice of scene design. Rendering techniques, period research, and multi-set productions.

414/414. Stage Lighting III (3 cr)
Lect, 2 lab. Prereq: THEA 411 or equivalent. Advanced lighting design through the rendering of light story boards.

416/416. Computer Aided Design (CAD) for the Theatre (3 cr)
Prereq: 12 hrs theatre arts, including THEA 201 and 202, and permission.
Computer Aided Design (CAD) as it applies to scenic, costume, and lighting design. Emphasis on two-dimensional drafting, three-dimensional modeling, and computer graphics.

419/819. Costume Design II (3 cr) Lec 2, Lab 3. Prereq: THEA 418/818. In-depth costume design in areas of design conception and techniques of design communication. Application of principles learned in Costume Design I.

420/820. Problems in Technical Production (3 cr) Lec 2, Lab 3. Prereq: THEA 201, 410/810, 412/812, or equivalent and permission. In-depth theoretical and practical application of organization, materials, and techniques necessary for the planning, execution, maintenance, and use of stage scenery, the properties, and safe use and maintenance of the stage and shop facilities.

421/821. Drafting for the Theatre (3 cr) Advanced techniques and practice in technical drafting as applied to theatrical scenic construction.

422/822. Theatre Architecture (3 cr) Practice in planning of a theatre facility, including program writing, working with consultants and architects, equipment specification, space allocation, codes and regulations.

423. Rendering for the Theatre (3 cr) Prereq: 12 hrs theatre arts, including THEA 201 or permission. Techniques and practice of rendering for scene and costume design.

424/824. Directing and/or Dramaturgy and/or Stage Management Seminar I (3 cr) Prereq: THEA 201, 202, 330, and 338. Modern dramatic literature, directing dramaturgy, and stage management theory and practice. Stanislavski to Peter Brook.

425/825. Directing and/or Dramaturgy and/or Stage Management Seminar II (3 cr) Prereq: THEA 201, 300, and 338. Modern dramatic literature, directing dramaturgy, and stage management theory and practice. New voices.

426. Lighting for Film (3 cr) Prereq: THEA 411/811 or 489/899 or permission. Advanced application of film lighting concepts and techniques.

475. Stage Rigging I (3 cr) Prereq: THEA 201 or permission. Theory and practice of rigging for live theatre: extensive work with fly systems, rope systems, and standard rigging hardware.

476. Sound for Film (3 cr) Prereq: The skills required to successfully produce and direct a film. Analysis of sound effects and techniques of sound editing.

480/880. Technological Innovations in Film Production (3 cr) Prereq: Senior standing and 3.0 GPA. History of technological innovation in film. Sound, film formal, color, systems, lenses, lighting and realizations that have enhanced the finished product in the film industry.

481/881. Screenwriting: The Short Script (3 cr) Prereq: BR DC 370 or EN GL 252 or 254 or 259 or THEA 331 or permission. Character development, story structure, and problem solving. Writing for the short film.

482. Film Production I (3 cr) Prereq: BR DC 269; THEA 114, 201, 202, and permission. Advanced film production techniques including sync-sound, lab post-production and film business. Small group final project, and create a production notebook.

485. Sound Design II (3 cr) Prereq: THEA 450/850 or permission. Advanced work with recording, editing, and playback devices. Training in digital editing using the ProTools LE platform. Planning and execution of full-length, realized, sound designs for departmental mainstage productions.

486. Sound for Film (3 cr) Lec, lab. Prereq: THEA 489/899 or 452/852. Advanced application of audio and field recording techniques and Digital Audio Workstation (DAW) editing.

487. Stage Rigging I (3 cr) Prereq: THEA 201 or permission. Theory and practice of rigging for live theatre: extensive work with fly systems, rope systems, and standard rigging hardware.

488. Post Production for Film and New Media (3 cr) Lec, Lab. Prereq: THEA 486/886. Advanced software and techniques.

489. Film: Producing and Directing (3 cr) Lec. Prereq: THEA 486/886. The skills required to successfully produce and direct a film. Analyze and direct stories from films, produce and direct a final project, and create a production notebook.

490. Digital Design and Animation (3 cr) Prereq: THEA 410/810 and 412/812; BR DC 269 or 428/828 or RH GR 221 or THEA 416/816 or permission. Advanced digital production design and animation for film and new media.


493. University Studies Program

Director and Chief Adviser: Amy M. Goodburn, 1223 O (faculty) H.
Faculty: Brooke (English), Harris (history), Reeder (politics), Surani (science), Walker (education), Green (anthropology and geography), Woodward (Woodward)

The University Studies Program offers a rigorous and balanced program of education and opportunity to students who present evidence of strong motivation and a capacity to pursue independent work, and who offer a rigorous and balanced program suited to carefully defined aims.

395. Honors Course (2-3 cr per sem, max 4) Prereq: 0 pen to seniors who are candidates for degrees with distinction, with high distinction, and with highest distinction in the Hixson-Lied College of Fine and Performing Arts.

380. Script Analysis (3 cr) Prereq: Permission.

383. Director/Designer Communication (3 cr) Prereq: Undergraduate major in theatre.

384. Detailed Scene Work I (3 cr) Prereq: 12 hrs theatre arts.

385. Detailed Scene Work II (3 cr) Prereq: 12 hrs theatre arts.

386. Introduction to Pedagogy (2 cr or sem, min 3)


399. Masters Thesis (6-10 cr)

Refer to the Graduate Bulletin for 900-level courses.
College of Journalism and Mass Communications

About the College

Will Norton, Jr., Ph.D., Dean and Professor of News-Editorial, 472-3041
Linda Shipley, Ph.D., Associate Dean and Professor of Advertising, 472-3041

Mission/Objectives/Goals

Journalism has been a part of the University of Nebraska-Lincoln curriculum since 1894. A School of Journalism was established as a unit within the College of Arts and Sciences on May 22, 1923. Until the mid-1940s, the School of Journalism offered courses designed exclusively to prepare graduates for employment by newspapers. Advertising courses were added soon thereafter, and broadcasting courses became available in the early 1960s.

The school became a free-standing unit in 1979 and was named a college in 1985. The name was changed to the College of Journalism and Mass Communications in 1993. In the fall of 2001, the college moved to a newly renovated facility. Harold and Marian Andersen Hall allows teaching innovations resulting in improved education for students.

The primary mission of the College of Journalism and Mass Communications is to graduate highly competitive young professionals who have acquired communication and critical thinking skills appropriate to the practice of journalism and strategic communications writing, editing, oral presentation and design in print, broadcast and interactive media. Because a viable career in the media professions requires graduates to understand the changes in society that make differences in people’s lives, journalism and mass communications education includes a fusion with the liberal arts and sciences at UNL.

The college's mission dictates a high priority role for excellent undergraduate teaching in the three sequences: advertising, broadcasting and news-editorial. An MA in journalism and mass communications complements this emphasis by building on a well-established and nationally recognized undergraduate curriculum.

Administrative Structure

The college includes three sequences in which students may major: advertising, broadcasting and news-editorial.

Undergraduate Majors

Advertising

The advertising sequence prepares students for careers in a wide variety of communication-related areas. Recent graduates have been placed in more than 20 states and several other countries in diverse advertising careers such as retail and corporate advertising and marketing, media sales, brand management, media planning, account management, research, public relations, media relations, special event planning, Internet communications, copywriting and layout and design.

The advertising faculty believes that a successful career must be built upon a solid foundation, an education that combines theory and practice. To achieve that end, the sequence offers courses in copywriting, layout, media planning, graphics, campaign development, research, management, and strategic communications. The curriculum is designed to emphasize strategy, planning and implementation in creative problem solving.

Much emphasis is placed on individual relationships between faculty and students; an interaction vital to a student's creative development. A faculty adviser also helps each student tailor an academic plan to meet his or her interests and needs.

In advertising and strategic communications classes, students often work with actual clients who present real-life problems. This experience gives students a professional perspective on problem-solving in many sectors including nonprofit, retail, small business and community organizations as well as large corporations. Students are encouraged to augment their academic experience with internships.

The faculty, with many professional contacts both locally and nationwide, actively help place students in jobs within the state and throughout the country. Students interested in majoring in advertising should contact the college office in 147 Andersen Hall.

Broadcasting

The broadcasting sequence offers courses leading to a wide variety of careers in the telecommunications industry. Building on a solid base of instruction in radio and television broadcasting, the sequence has broadened its curriculum in response to advancing technology and new electronic media. The sequence offers courses in news gathering and dissemination, sports reporting, videography, sales, manage-
ment, programming and other specializations including the use of audio and video on the Internet and the World Wide Web. Courses are designed to develop both a comprehensive understanding of theoretical principles and professional skills. Most courses involve extensive practical laboratory work in addition to classroom lectures and discussions.

KRNU, a professionally managed FM radio station, is a part of the institutional program. With studios in Andersen Hall, KRNU operates year-round and serves an audience of potentially 250,000 persons in the Lincoln area, plus a global audience via the Internet. Student-produced programs aired on KRNU have won many awards in competition with other student groups as well as with commercial stations. Broadcasting students received a Bronze Oskar in the student documentary category for their 2003 production of "Cuba An Illogical Temple."

Students have also had success in the national Hearst competition, including the broadcast news national winner in 2006 and several students placing in the top five.

In addition, students may work in the studios of KUON-TV, the flagship station of the Nebraska Educational Television Network, one of the premier ETV facilities in the nation. Students also produce television newscasts and entertainment programs, which are distributed throughout Lincoln via cable television. The broadcasting program operates two television studios in Andersen Hall.

The broadcasting faculty enjoys an excellent rapport with the industry, and its members are actively involved in professional media organizations, frequently serving in leadership positions. Students are encouraged to further their professional goals through participation in student organizations such as the National Broadcasting Society, Alpha Epsilon Rho, the Society of Professional Journalists, the Radio-Television News Directors Association and other broadcasting entities.

Broadcasting faculty assist students in acquiring internships and professional work experience prior to graduation. Last year more than 100 media-related internships and professional part-time jobs were held by broadcasting majors. Graduates are working for media organizations throughout the nation, often in positions of middle and upper management. Students wishing to major in broadcasting should contact the college office in 147 Andersen Hall.

News-Editorial

The news-editorial sequence offers courses in print journalism, the discipline on which the college was established. All faculty members have extensive professional experience, which is coupled with their commitment to teach students the skills needed to succeed.

The news-editorial faculty takes pride in the fact that nearly all recent graduates who have wanted jobs on newspapers have found them. While most news-editorial students take jobs at newspapers, some also go to work for magazines and other print media, including online publications.

Faculty prepare their students for the job market by combining class work with actual experience. Students in photography, editing, reporting and design will have internships as well as opportunities to publish in putting out a weekly laboratory newspaper. As a summer school experience, advanced reporting students travel to a selected town to help write and edit editions of a weekly paper. News-editorial students work with advertising and broadcasters majors to produce newspapers and other publications. Most news-editorial students have at least one such work experience before they graduate. In one typical summer, three students were working on copy desks at papers like THe New York Times and the Washington Post, many were working on N ebraska newspapers, some were working in public relations offices of major firms and others were on news papers across the country from Concord, N H, to Tucson, A Z. Advanced students such as those in depth reporting and creative editing, display their work in special college publications. In terms of national recognition, news-editorial students regularly place among the top 10 in the national Hearst writing competition, and many students take top honors in the Society of Professional Journalists' competition. News-editorial depth-reporting students were nominated for a Pulitzer Prize for their 2003 88-page Cuba magazine and their 2005 magazine about the Cubans' 1959 revolution. Emphasis may be placed on advertising, broadcasting or news-editorial. Students entering the program must have the equivalent of an upper-division major in an accredited program in journalism or mass communications or extensive professional experience. Students can also earn a master's degree in journalism at the graduate level. Students are encouraged to further their professional goals through participation in student organizations such as the National Broadcasting Society, Alpha Epsilon Rho, the Society of Professional Journalists, the Radio-Television News Directors Association and other broadcasting entities.

Hitchcock Center for Graduate Study and Professional Journalism Development

The Hitchcock Center, with a $250,000 endowment from the Gilbert M. and Martha H. Hitchcock Foundation, helps finance the graduate program in the College of Journalism and Mass Communications and further develops the skills of Nebraska's professional journalists. It accomplishes the latter goal by providing direct support to the state's professional journalists through research projects and statewide workshops. Students involved with the Hitchcock Center are also involved with the college's advising coordinator, 105 Andersen Hall, at least once each year to make sure all college and university requirements are completed.

Degree Requirement Check

By the time students complete 89 semester hours, they should apply for a "senior" check in the Office of Registration and Records, 107 Canfield Administration Building. This check will inform students about the requirements that remain to be fulfilled for their degree program.
With each term's registration, students should determine how course selections apply to requirements by obtaining a degree audit; available on the WAM Web page, www.unl.edu/wam.

Honors and Awards

Outstanding students are honored each spring during an honors convocation. The college recognizes students whose cumulative grade point averages place them in the top 10 percent of their respective classes, students who hold scholarships and students who have earned special awards.

In addition, the college distributes a semester dean's list. To be included on the semester dean's list, a student must have earned at least a 3.7 semester GPA on 12 or more graded hours.

Kappa Tau Alpha. The Will O'wen Jones Chapter of Kappa Tau Alpha, the national journalism honorary, recognizes outstanding undergraduate and graduate students. Membership is limited to those in the top 10 percent of the junior and senior classes in the college of journalism and mass communications who have completed the junior level professional courses. Each year the society honors a student achieving the highest four-year grade point average in the college and presents an award to the distinguished journalist of the year.

Alpha Delta Sigma. As the national honorary society for advertising students, ADS recognizes outstanding academic achievement. Since ADS was initiated in 1976, students nominated by their faculty advisers have been elected by division leaders into this exclusive scholastic group. An ADS chapter was founded at UNL in 1993. To be eligible for nomination, students must be enrolled in the local American Advertising Federation chapter (Ad Club).

Alpha Epsilon Rho. Alpha Epsilon Rho recognizes superior scholarship in the field of broadcasting. The University of Nebraska chapter was chartered in 1946. Membership is by invitation upon completion of 9 hours in broadcasting with a cumulative grade point average of 3.25 in broadcasting and a 3.0 cumulative or above. For more information, contact the college office in 147 Anderson Hall.

Degrees With Distinction

In recognition of academic excellence, the college recommends the bachelors degree with distinction, with high distinction and with highest distinction. To be recommended, candidates must fulfill the specific criteria as described below, in addition to meeting all the general criteria and procedures applicable to all distinction classifications. The thesis and results of the examination over the thesis in each instance must be acceptable to the advisory committee.

Highest Distinction. Candidates for the bachelors degree may be recommended for degrees with highest distinction on the basis of the following criteria: scholastic standing within the top five percent of the graduating class of the college in the preceding 12-month period and the advisory committee's recommendation based upon a thesis or comparable creative effort and an oral examination over that thesis or creative effort.

High Distinction. Candidates for the bachelors degree may be recommended for degrees with high distinction by fulfilling one of two sets of criteria: 1) by achieving scholastic standing within the top five percent of the graduating class of the college in the preceding 12-month period; or 2) by achieving scholastic standing within the top 10 percent of the graduating class of the college in the preceding 12-month period and by recommendation of the advisory committee based on a thesis or comparable creative effort and an oral examination over that thesis or creative effort.

Distinction. Candidates for the bachelors degree may be recommended for degrees with distinction by achieving one of two sets of criteria: 1) by achieving scholastic standing within the top 10 percent of the graduating class of the college in the preceding 12-month period; or 2) by achieving scholastic standing within the top 15 percent of the graduating class (never below a 3.7 GPA) of the college for the preceding 12-month period and by recommendation of the advisory committee based on a thesis or comparable creative effort and an oral examination over that thesis or creative effort.

The following criteria apply to all categories: Ordinarily, only students who have taken their last 48 hours of coursework in residence will be considered for degrees with distinction. In considering individual cases, the advisory committee will review both grades and the program of courses. Students who choose one of the thesis options described above should make arrangements before their senior year by consulting with their academic advisers. These students must register for JOUR 499H for one hour of credit in the semester they plan to complete the thesis proposal and register for an additional two hours of credit in the semester they plan to complete the thesis. At least two members of the student's honors thesis committee must make a recommendation to the advisory committee on the thesis work.

During the semester before the student intends to graduate, she or he should visit the dean's office in Anderson Hall, to obtain the schedule of deadline dates for submission of reports of examining committees. The forms for making the reports are also available in the dean's office or online at journalism.unl.edu/program/ (click on "Honors").

Student Organizations

American Copy Editors Society

The college sponsors a student chapter of the American Copy Editors Society. Students regularly attend regional and national meetings of the association, which was founded in 1997 as a professional journalism organization for, by and about copy editors.

The National Broadcasting Society/Alpha Epsilon Rho

The Nebraska Association of Educational Broadcasters identifies students in broadcasting majors. Membership in open to all students with an interest in communications. There are no course or GPA requirements for membership in the NS/PER Rho.

Admission to the College

The entrance requirements for the College of Journalism and Mass Communications, beginning with the fall semester of 1997, are the same as the admission requirements for the University of Nebraska-Lincoln. These include:

- English (4 units)
- Mathematics (4 units)
- Social studies (3 units)
4. Secure the Bursar's Receipt for Payment of

5. For undergraduates, the 24-hour college limit shall apply. This limit does not include courses offered on a Pass/No Pass only basis or AP credit. This limit does apply to transfer credit and college's 200-level classes.

College of Journalism and Mass Communications

Eligibility to Enroll

All students must have a cumulative grade point average of at least 2.75 to take courses that apply to undergraduate majors in the College of Journalism and Mass Communications. Such courses are listed under the headings of A D V T, B R D C, J O U R, and N E W S, which are intended for non-college of Journalism and Mass Communications majors, are open to all students.

College of Journalism and Mass Communications courses will be restricted to College of Journalism and Mass Communications majors except where stipulated differently. Students from colleges and departments with a written agreement with the College of Journalism and Mass Communications will be exempt from this policy. Permission may be granted by the dean of the College of Journalism and Mass Communications in special circumstances following the directives provided by the faculty in these matters.

Credit by Examination

Through study or experience that parallels a University of Nebraska-Lincoln course, a student may be permitted to receive credit by examination in a course that is a prerequisite for one in which he or she already has received credit.

The College of Journalism and Mass Communications also gives credit for the subject and general examinations of the College Level Examination Program (CLEP) administered by the College Entrance Examination Board. Inquire in 107 Canfield Administration Building for the current policy regarding CLEP examinations.

Transfer Credit

The goal of the following policy is to ensure that students from other campuses meet the same standards required of students who take all their courses at the University of Nebraska-Lincoln's College of Journalism and Mass Communications.

The college will accept no more than 15 semester hours of grades less than C from any program outside the University of Nebraska system. No grades less than a C will count toward a major, a minor, or concentration.

The college will accept up to 6 hours in journalism and mass communications courses taken at institutions that do not have an accredited journalism and mass communications program. Students must take the remainder of the required hours in journalism courses on campus at the University of Nebraska-Lincoln. In advertising, these courses must include 460 and 489 and in broadcasting, 370 and 372. In news-editorial, the courses must include 302 and one selected from the following: N E W S 303, 304, or 400-level writing course. Students from ACEJMC C-accredited programs may request equivalency reviews of the required courses at those schools. Degree candidates must accumulate 80 credit hours of non-journalism classes 65 of those in disciplines listed as liberal arts.

Credit for courses taken at foreign universities and colleges will be transferred only after an examination of the student's grades by the appropriate professor in the major. This evaluation may include examination of the student's grades or other factors.

Readmission

A student who left the University not in good standing (below a 2.0 grade point average), may be readmitted by the Division of General Studies. Such a student would be eligible to reenter the College of Journalism and Mass Communications upon attaining a 2.75 cumulative GPA.

Students who left the university in good standing may be readmitted in the Division of Journalism and Mass Communications, and they may choose the bulletin under which they wish to graduate. The following guidelines will apply:

1. Students must fulfill the requirements stated in the Undergraduate Bulletin for the year they enter the College of Journalism and Mass Communications

2. A student must, however, meet the requirements from one bulletin only rather than choosing a portion from one bulletin and the remainder from another.

3. A course taken by a student at a foreign institution during the first 30 credit hours of enrollment at the University will not count toward elective credit but will not count toward the college's general education requirements.

4. Secure the Bursar's Receipt for Payment of the examination fee; and

5. Present the completed form to the instructor designated by the dean's office.
courses from UNO, UNK, U N M C, and other institutions. It also applies to ES/IS courses.

6. P/N hours can count toward fulfillment of group requirements, including concentrations, up to the 24 credit hour maximum. No journalism major may take a journalism course P/N.

7. Students may change to P/N until the eighth week (one-half course completion) if the P/N registration is not in conflict with a professor, department, college or university policy governing the P/N option. Changing from graded to P/N or from P/N to graded can be completed on WAM! or by filing a drop/add form with the Office of Registration and Records, 107 Canfield Administration Building, and needs no instructor's approval.

Grading System

The university uses an A through F grading system. The letter grades with point value (in parentheses) are: A+ (4.0), A (4.0), A- (3.67), B+ (3.33), B (3.0), B- (2.67), C+ (2.33), C (2.0), C- (1.67), D+ (1.33), D (1.0), D- (0.67), and F (0). Grades of W (dropped/withdrawn), I (incomplete), P (pass/C or better), and N (no pass) may also be given. W, I, P, and N are not assigned grade points and, therefore, are not used in computation of a student's grade point average. For complete details of the grading system, refer to the current issue of the Schedule of Classes.

Class Standing

Sophomore Standing. For admission to sophmore standing a student must have completed a minimum of 27 semester hours of credit and attained a total grade point average of at least 2.0. However, to enroll in College of Journalism and Mass Communications courses the student must have at least a 2.75 cumulative grade point average.

Junior Standing. A student has junior standing after meeting the requirements for sophomore standing and completing 53 semester hours of credit.

Senior Standing. A student has senior standing after meeting the requirements for junior standing and completing 89 semester hours of credit.

Grade Appeals

The following is a synopsis of the College of Journalism and Mass Communications grade appeals policy. The policy is designed to provide students with protection through orderly procedures against prejudiced or capricious academic evaluation. A student with a concern about a grade should take the following steps:

1. Talk with the instructor involved. Many problems are resolved at this level.

2. Talk with an assistant or associate dean in 147 Andersen Hall.

3. If the foregoing steps have not resulted in a solution, arrange to take the problem to the sequence grading appeals committee. This step involves presenting the problem in writing.

4. If an appeal from the sequence committee is necessary, arrange to take the appeal to the College Grading Appeals Committee.

NOTE: The detailed policy is available in the dean's office.

Bachelor of Journalism Degree

Requirements

A minimum of 125 semester hours of credit is required for graduation from the College of Journalism and Mass Communications. Any student transferring into the college must have at least a 2.75 GPA.

All majors in the college must have at least a 2.75 GPA by the first day of each term to maintain registration in College of Journalism and Mass Communications.

All journalism courses are “grade only” unless noted otherwise. No grades below a C count toward the major, a minor or a concentration.

Students who enter the college with fewer than two units of a foreign language from high school are required to take 130 semester hours as a minimum for the bachelor of journalism degree. Thirty of the 125 (or 130) semester hours of credit must be in courses numbered above 299.

Students in the College of Journalism and Mass Communications use the requirements in the Undergraduate Bulletin that is in effect at the time they enter the college. Students must fulfill the requirements stated in that bulletin or in any subsequent bulletin that is published while they are enrolled in the college.

No student may use a bulletin dated more than 10 years prior to the date of graduation. A student must meet the requirements from only one bulletin rather than choosing a portion from one bulletin and the remainder from another.

Course Exclusions and Restrictions

Any course on the university's list of approved Essential Studies (ES) or Integrative Studies (IS) courses at the time the student takes the course will count toward the 125 (or 130) semester hours required for graduation, but only those courses that are liberal arts in content (see Group I) will count toward the college’s group requirements. As a result, the most efficient manner to complete both the general education and college group requirements is to select courses that are on the ES and IS lists and that are designated as liberal arts in content. Additional courses not on either the ES or IS list may also count toward the total required for graduation. However, courses from the following areas shall not count toward graduation unless the courses appear on the ES list approved by the faculty of the College of Journalism and Mass Communications.

- Athletic Coaching (ATHC)
- Athletic Training (ATH)
- Health Education (NU TR), first aid or emergency healthcare
- Agricultural Leadership Education and Communication (ALEC)
- Vocational and adult education courses business education courses
- student assistantships, teaching assistantships, proctoring, or grading
- internships of a journalistic nature taken through any university unit or department, except that a student may receive up to 3 semester hours of credit for an internship taken with special permission from the sequence head
- any independent study course, clinical course, experiential course or practicum outside the College of Journalism and Mass Communications undertaken without the prior written approval of the student's adviser
- driver training education
- industrial arts (including courses concerned primarily with manual skills, tools, machines, or industrial processes and design)
- orientation
- math courses below 100 and MATH 100A
- CSE 137, word processing and graphics
- EDPS 327 (ALEC 327)
- BSAD 150, M NGT 198D

A maximum of 12 hours of military science (M LSC), naval science (N AVS), and aerospace studies (AERO) may be counted toward the degree.

A maximum of 4 hours of practice courses in varsity sports and recreational activity courses (ATHP, COMB, FITN, INDV, ODED and RACS) or Basic Military Science, which is credit for active military duty, not ROTC course work.

A maximum of 15 hours of applied study, defined as courses including “performance, practice or skills” in their titles or course descriptions. This limitation on fine arts, communication studies and other areas outside the College of Journalism and Mass Communications does not apply to students completing designated majors or minors in those areas. This means that a student who has declared a designated major or minor in any of these areas has no performance limit applied to the degree audit.

Residency Requirement

At least 30 of the last 36 hours of credit needed for the degree must be registered for and completed while the student is enrolled in the University of Nebraska-Lincoln. This means the last year of the student's work must be spent in residence. Correspondence courses do not count toward residence. A maximum of 30 hours of correspondence courses and summer reading courses at UNL may be applied toward a degree from the College of Journalism and Mass Communications.

Application for Degree

Each student who expects to receive a diploma must file an application for candidacy for the diploma and pay a $25 fee in the Office of Registration and Records, 109 Canfield Administration Building. Announcements about deadlines are published and posted on bulletin boards around campus.

Students are responsible for informing the Office of Registration and Records of their graduation plans, including their addresses, the manner in which they are completing their requirements, such as by correspondence, by clearance of incompletes, by enrollment at another institution, by taking special examina-
students, etc., and of any later revision of such plans. Failure to follow this procedure may cause postponement of graduation until a later semester.

The college will allow no waivers for graduation requirements. If students think they have met the intent of a particular requirement in some other fashion, they may submit a substitution request form.

The form requires students to justify the request and secure recommendations from their advisers. Students must submit completed requests, with appropriate recommendations, to the dean's office no later than two working days prior to the next regularly scheduled meeting of the College Policies and Procedures Committee. Decisions to grant or deny requests will be made by that committee or a designated subcommittee, and will go to the full faculty.

Students must remember that it is their responsibility to know and follow the graduation requirements of the college. A substitution request should come only after all other avenues of advising and course work have been exhausted.

The faculty will consider only substitutions under no circumstances will requirements be waived. A substitution shall be defined as:

1. The replacement of a required course by a course of very similar content.
2. Credit by examination when offered.
3. The replacement of a required course with significant professional experience. This will be allowed only in rare instances. The experience will substitute only for course content, not for credit hours. Additional credit hours may be needed to maintain minimum credit hour requirements for graduation.

**Degree Programs and Areas of Study**

Candidates for the bachelor of journalism degree must abide by the Accrediting Council on Education in Journalism and Mass Communication accrediting guidelines which require that 80 semester hours of credit be completed in courses outside the college of journalism and mass communications. Sixty-five (65) of the 80 hours must be taken in subjects listed as traditional liberal arts and sciences by the university. See Group I below for a list of the areas currently considered liberal arts. Students graduating with 125 hours can take no more than 45 hours in the college of journalism and mass communications. Students needing 130 hours to graduate can take no more than 50 hours in the college of journalism and mass communications.

**Group A. Communication (3 hours)**

Students must complete one English (EN GL) composition or writing course numbered 199 or below, or one composition or writing course between 250 and 259.

When a student whose native language is not English enters the University of Nebraska-Lincoln seeking a degree in journalism and mass communications, he or she must report to the dean's office to provide evidence of ability or preparation for speaking or writing in English language audiences. See the College of Arts and Sciences portion of this bulletin for appropriate courses in English for foreign students.

**Group B. Mathematics or Statistics (3 hours)**

Students entering the University of Nebraska-Lincoln in the fall 1995 or later must complete at least 3 semester hours of mathematics or statistics. (See "Essential Studies Program List" on page 377 for specific course titles.)

Beginning in the fall of 1997, four units of high school math are UNL entrance requirements.

**Group Requirements for the Bachelor of Journalism Degree**

Students must satisfy both the university’s Comprehensive Education requirements and the College of Journalism and Mass Communications’ group requirements. The Comprehensive Education Program requires students to complete 80 semester hours of credit, including 27 hours from the list of Essential Studies courses and 10 Integrative Studies courses. For these requirements and the courses that satisfy them, see the "Comprehensive Education Program" on page 16 of this bulletin.

Group requirements provide a general introduction to the knowledge upon which our civilization is founded. The requirements are divided into 11 major classifications known as Groups A, B, C, D, E, F, G, H, I, J, and K. To satisfy groups A through I, students must select courses from the areas identified in Group I as being among the traditional liberal arts. Courses used to fulfill a requirement in one category cannot be used in another category except where an exception is stated in the category description.

Students who are candidates for Phi Beta Kappa must satisfy the general education requirements and the requirements of a departmental major established by the College of Arts and Sciences.

Except for JOUR 422, Race, Gender and Media, which will meet 3 hours of the college's Group H requirement, courses offered through the College of Journalism and Mass Communications (identified in class listings as ADVT, BRDC, JOUR, JGEN, or NEWS) may not count toward satisfying any group requirement.

JGEN courses, which are open to students from any college, do not count in any college of journalism and mass communications major. Non-college of journalism and mass communications students must have permission to enroll in any ADVT, BRDC, JOUR, or NEWS courses. Permission generally is reserved for students whose colleges have agreements with the College of Journalism and Mass Communications.

Students with high school deficiencies may remove the deficiency as follows:

1. A geometry deficiency may be met by completing MATH 85X and MATH 86X.

2. A deficiency in the second year of high school algebra may be met by taking MATH 95C; or by taking MATH 100A. No credit of any kind is given for MATH 95C.

University credit is given for MATH 100A, but no credit is given toward the bachelor of journalism degree.

3. A deficiency of the first year of algebra can be removed by taking two high school Algebra I courses by correspondence from UNL's Extended Education and Outreach (not for college credit).

4. A student whose deficiency is the additional (fourth) year of mathematics that builds on algebra must successfully complete MATH 101, 102, or 103, or an equivalent course at another institution.

**Group C. Human Behavior, Culture, and Social Organization (12 hours)**

Among the courses that satisfy this requirement are those in anthropology, communications studies (non-performance), economics (except quantitative economics or econometrics), geography (except physical geography), psychology, political science and sociology. Of the 12 hours, at least 3 must be taken in the political science (POLS) department and at least 5 must be taken in the economics department (ECON).

**NOTE:** Those students completing ECON 210 (5 cr hrs) at UNL need a total of only 11 hours to fulfill this requirement.

**Group D. Science or Technology (6-7 hours)**

Courses satisfying this requirement may come from astronomy, biological sciences (except bioethics or biopsychology), chemistry, computer science (not word processing or graphic design), physics, geography, geology, psychology, and so on. At least one science or technology course must include a laboratory— not a computer lab.

**Group E. Historical Studies (9 hours)**

Courses satisfying this requirement may come from anthropology, archaeology, biology, history, political science, or sociology. Of the 9 hours at least 6 must be taken in the history department (HIST). (See "Essential Studies Program List" on page 377 for specific course titles.)

**Group F. Humanities (9 hours)**

Humanities courses include those in the classics (except those in classic languages, such as Greek and Latin), English literature, literature in the modern languages and philosophy. Of the 9 hours, no more than 6 may be taken in any one department.

**Group G. Arts (3 hours)**

Students must take at least 3 hours from JGEN, 140A, 140B, 141A, 141B, or 143 or from courses that are liberal arts in content (Group I) and are listed under the Arts category on the comprehensive education ES list. Arts courses that are designated as liberal arts are those that are designed for the study of, rather than practice of, that art. These include art history, dance...
history, music history and theater history. (See "Essential Studies Program List" on page 377 for specific course titles.)

**Group H: Race, Ethnicity and Gender (6 hours)**

The student must complete 6 hours from courses intended to provide knowledge and analysis of theoretical concerns, social experiences, or creative works arising from human diversity in the United States and the world community to which it belongs. (See "Essential Studies Program List" on page 377 for specific course titles.)

Courses taken to meet the Group H requirement may also count toward meeting requirements in Groups C, E, F, G, I, and K.

**Group I: Liberal Arts (65 hours)**

Students must accumulate at least 65 semester hours in the traditional liberal arts as defined by the university. The current list of liberal areas comprises anthropology (ANTH), art history (AHIS), communications studies (COMM), non-performance basketball history (DANC), economics (ECON), English composition and literature (ENGL), foreign language (modern or classical) (MODL), geography (GEOG), history (HIST), mathematics (MATH), music history or theory (MUSC), philosophy (PHIL), political science (POLI), psychology (PSY), sociology (SOC), theater history (THEA), and the natural sciences. Natural science courses that count toward the liberal arts requirement are listed in the bulletin under the headings astronomy (ASTR), biology (BIO), chemistry (CHEM), computer science (CSCE), econometrics or quantitative economics (ECOE), physical geography (GEOG), geology (GEOL), and physics (PHYS). Courses taken from any of these areas for fulfillment of the requirements for Groups A-H and K also count toward fulfillment of this group requirement. See note in Group J regarding foreign language hours.

**Group J: Foreign Language (0-6 hours)**

Up to 6 hours of 200-level composition and conversation foreign language courses taken to satisfy Group J requirements may count toward Group I. Such courses will not satisfy the Group K requirements. Courses numbered 300 or above can count toward a concentration or minor.

A student who enters with 2 units of the same foreign language in high school may count 100-level conversation and composition courses toward Group I only if those beginning courses are completed in another foreign language than the one taken in high school.

The language requirement serves to help students gain a working familiarity with a language and a culture other than their own. The requirement will be fulfilled by completion of the third and fourth levels of courses in a single foreign language either in the Department of Modern Languages and Literatures or the Department of Classics and Religious Studies.

Students who have completed the fourth-year level of one foreign language in high school are exempt from the Group J requirements. Students who have completed three years of one foreign language in high school may fulfill the language requirement by taking a fourth-year semester course.

Students who enter UNL having completed fewer than 2 years of a single foreign language in high school will need 130 hours to graduate. Students who have completed instruction in a single foreign language available in Czech, French, German, Greek, Japanese, Latin, Russian and Spanish. Course sequence is usualy 101, 102, 201 and 202. Block courses combining 201 and 202 are offered in French, German and Spanish during the regular academic year. Study abroad programs may provide additional options. Portuguese, for example, is available in the fall semester to students studying in Brazil. Courses 201 and 202 in French, German and Spanish can be taken in a block in the summer language house and during the regular academic year.

Interim language courses in the country of the language are also periodically available and offer credit for 202.

**Options for completion of language requirement:**

1. Regular four-semester sequence: 101, 102, 201, and 202 (5, 5, 3, 3 hours for a total of 16)
2. Three-semester sequence: 101, 102, and 210 (5, 5, 6 hours for a total of 16)
3. 101, 102 fall and spring semesters: 201, 202 summer session (5, 5, 3, 3 hours for a total of 16). This is the option below constitute the only possibilities to finish the complete language requirement in four semesters
4. (For Spanish) 101, 102 at UNL: 201, 202 at Montery Summer Institute: 6 hours, (5, 5, 6 hours for a total of 16.) One six-week summer session (1st summer session). See modern languages non-majors adviser for information and application.
5. Students who have taken 3 years or fewer of a foreign language in high school should contact the modern languages and literatures department for recommended placement.

A student who achieves a specified scaled score in the College Level Examination Program (CLEP) subject exam in French, German and Spanish, levels 1 and 2, may be exempted from the language requirement and may also receive credit for the fourth semester course in the language. Students wishing to exercise this option must receive permission from the dean of the College of Journalism and Mass Communications.

A student who has completed three years of a single foreign language in a high school school should contact the modern languages and literatures department for recommended placement.

A student who achieves a specified scaled score in the College Level Examination Program (CLEP) subject exam in French, German and Spanish, levels 1 and 2, may be exempted from the language requirement and may also receive credit for the fourth semester course in the language. Students wishing to exercise this option must receive permission from the dean of the College of Journalism and Mass Communications.

A transfer student with 11 or 12 semester hours of accepted credit in a single foreign language has two choices: a) to complete 201 and 202 in the same language or b) to enroll in 202 in spring with permission of the chair of the Department of Modern Languages and Literatures.

A student from a foreign country who has demonstrated acceptable proficiency in his or her native language (other than English) is exempted from the Group J requirement without credit toward the degree. U.S. citizens who present acceptable evidence that their second language is English are exempted from the language requirement without credit toward the degree. All such students should see the dean of the College of Journalism and Mass Communications for this exemption.

**Group K: Additional Minors and Concentrations**

College of Journalism and Mass Communications majors must complete the requirements for three designated minors or concentrations of at least 12 hours outside the college. Concentrations are defined as a minimum of 12 hours (6 hours must be at the 200 level or above) taken from one department or a specified interdisciplinary program that does not have a designated minor. One of these outside minors or concentrations must be in one of the departments identified in Group J as one of the traditional liberal arts. No course may simultaneously count toward two Group K concentrations. Courses completed for other requirements (except courses listed in Group J) may count toward the Group K requirement. In no case will College of Journalism and Mass Communications courses be counted toward a concentration or minor. Only a grade of C or better will count toward a minor or area of concentration.

A designated major consisting of 24 hours or more taken outside the college is equivalent to two minors or concentrations.

**Programs and Sequences**

**Journalism Requirements**

Any student transferring into the College of Journalism and Mass Communications must have a 2.75 GPA. A student whose GPA falls below 2.75 by the first day of the term must carry out the procedures to drop College of Journalism and Mass Communications courses by the end of the add period to ensure a full refund (except in JGEN which is a 2.0 GPA). If a student fails to drop the journalism courses by that date, the dean of the College of Journalism and Mass Communications reserves the right to administratively cancel the student's registration in the college's courses with the understanding that there would be some tuition charge.

The same rule applies to non-journalism students having permission to enroll in College of Journalism and Mass Communications courses. All journalism courses are "grade only" unless otherwise noted. Only a grade of C or better will be accepted toward a major in the college.

The major is 38 hours in advertising, 41 hours in broadcasting and 41 hours in news-editorial.

Students must major in one of three undergraduate sequences—advertising, broadcasting, or news-editorial. Each of these sequences requires professional courses for students. Additionally, all students must take the core courses: JOUR 101, 102, 142, 204, 486, and 487.

Students can major in two sequences in the College of Journalism and Mass Communications by completing all requirements for each major and the college group requirements. Students exercising this option must declare a first major within the College of Journalism and Mass Communications. Students also may choose to dual matriculate and meet the requirements for two majors—one from the College of Journalism and Mass Communications and the second from another college within UNL.

In addition to academic eligibility (2.75 or higher GPA), applicants who speak English as a second language and are interested in advertising, broadcasting or news-editorial must present a TOEFL score of 600 or higher. Broadcasting
majors also must achieve an acceptable score on the TSE (Test of Spoken English) exam. There is no TSE requirement in advertising or news-editing.

### Courses of Instruction

#### Core (JOUR)

All core (JOUR) courses require a 2.50 cumulative GPA.

**[ES][IS] 101. Principles of Mass Media (3 cr)** Lec. 0.0 to non-College of Journalism and MMSC communications majors.

- Introduction to the mass media as a source of news and entertainment, and to the content and forms of media persuasion. Background and history about print and broadcast media and about public relations toward the media and persuasive messages that affect and are affected by society and content.

**102. The Art of Writing (3 cr)** Lec. Prereq: A major in the College of Journalism and MMSC communications or majors in other colleges whose programs require (JOUR 102) passing grade on the Writing Usage proficiency exam. 2.75 GPA. Aframe of the Writing Usage proficiency exam can be made in JOUR 101. The course is designed for writing media.

**142. Visual and Aural Literacy (ARC, ART, IDES, TXCD) 142A (3 cr)** Lec, quz. Prereq: College of Journalism and Mass Communications major and 2.75 GPA.

- ARTP: Art major or candidate for teaching endorsement in art. ARC: Admission to the College of Architecture. IDES: Admission to the College of Architecture.
- TXCD: Textiles, Clothing and Design major or minor.

Images change perceptions, the historic and economic underpinnings of visual communications, and the effects of images on individuals and groups. Advertising, typographic design, graphic design, photography, television, video, motion pictures, cartoons, and the Internet.

**148/848. Mass Media History (3 cr)** Lec, quz, Prereq: Junior standing; major in advertising, broadcasting, or news-editorial; 2.75 GPA. History of American mass media in cultural and philosophical contexts, the evolution of mass media as a social institution.

**204. Information Gathering (3 cr)** Lec, Lab. Prereq: Permission.

- Online searching for information, methods of searching databases, and writing for public media.

**350. New Media Design (3 cr)** Lec, Lab. Prereq: JOUR 204 and 141A, 2.75 GPA.

- Online searching for information, methods of searching databases, and writing for public media.

#### Advanced (JOUR)

**200. Technical Communication I (3 cr)** Lec. 3.0 to seniors and juniors. JGEN 300 does not count toward any C. College of Journalism and MMSC communications major. Introduction to written and oral communication and document design principles and strategies as applied in the sciences and technology.

**300. Technical Communication II (3 cr)** Lec. 3.0 to seniors and juniors. JGEN 300 does not count toward any College of Journalism and MMSC communications major. Interdisciplinary approach to written and oral communication and document design principles and strategies. Applies course work from the student's major to issues in science and technology. Problem solving and critical thinking. Integrates various perspectives through collaborative learning in team projects.

**486/886. Sports Media Relations (3 cr)** Lec, Prereq: Permission.

- Issues in sports media relations and integrated marketing communications. Background of the unpredictable nature of the sports industry and the relationships with its various publics and the media.

**498/898. Special Topics (1-4 cr, max 12)** Lec. 2.75 GPA. Subject to approval by the instructor.

#### Journalism-GEN

**All general (JGEN) courses require a 2.00 cumulative GPA.**


**340A. Visual Literacy Lab: Analysis and/or Composition (ARC, ART, IDES, TXCD) 140A (2 cr)** Lec, Lab. Prereq: ARTP: Art major or candidate for teaching endorsement in art. ARC: Admission to the College of Architecture. IDES: Admission to the College of Architecture. TXCD: Textiles, Clothing and Design major or minor.

- For course description, see ARTP 140A.

**340B. Visual Literacy Lab: Perceptual Drawing (ARC, ART, IDES, TXCD) 140B (2 cr)** Lec, Lab. Prereq: ARTP: Art major or candidate for teaching endorsement in art. ARC: Admission to the College of Architecture. IDES: Admission to the College of Architecture.

- TXCD: Textiles, Clothing and Design major or minor.

- For course description, see ARTP 140B.

**341A. Visual Literacy Lab: Color (ARC, ART, IDES, TXCD, JUNA) (1 cr)** Lec, Lab. Prereq: ARTP: Art major or candidate for teaching endorsement in art. ARC: Admission to the College of Architecture. IDES: Admission to the College of Architecture.

- TXCD: Textiles, Clothing and Design major or minor.

- For course description, see ARTP 141A.

**341B. Visual Literacy Lab: Speculative Drawing (ARC, ART, IDES, TXCD) 141B (2 cr)** Lec, Lab. Prereq: ARTP: Art major or candidate for teaching endorsement in art. ARC: Admission to the College of Architecture. IDES: Admission to the College of Architecture.

- TXCD: Textiles, Clothing and Design major or minor.

- For course description, see ARTP 141B.

**342. Visual Literacy and Art Design (ARC, ART, IDES, TXCD) 142 (3 cr)** Lec. Prereq: ARTP: Art major or candidate for teaching endorsement in art. ARC: Admission to the College of Architecture. IDES: Admission to the College of Architecture.

- TXCD: Textiles, Clothing and Design major or minor.

- For course description, see ARTP 142.
Principles and practices of evaluating and selecting media for advertising in both the local and national advertising situations. Explanation of the media, their differences, how they are used in advertising, information resources and strategies for using media.

481/ 881. Advertising and Public Relations Research (3 cr) Prereq: ADVT 432, 2.75 GPA. Experience the actual research process and produce a report. Research in the planning, development, and evaluation of advertising. The role of secondary sources of information and how to analyze data from these sources. The planning and execution of primary research. Survey techniques.

482/ 882. Direct Advertising (3 cr) Lec. Prereq: ADVT 432; 2.75 GPA. Laboratory assignment provides practical experience. Fundamentals of direct advertising, data base building and management, the economics of the industry, development and testing of effective creative materials, product selection and pricing, telemarketing, business to business direct advertising, lead-generating programs, the use of electronic and print media in the direct advertising mix and fund-raising for worthy causes.

484/ 884. Advertising Management (3 cr) Prereq: ADVT 432, 2.75 GPA. The managerial philosophy, techniques, and processes in advertising. Organizational structures, integrated management communications, strategic planning, marketing planning, advertising planning, advertising research, budgeting, and decision paradigms.

488/ 888. Media Sales and Promotion (3 cr) Lec. Prereq: ADVT 432. 2.75 GPA. For ADVT majors ADVT 432. For BR D.C. majors Junior standing. Techniques for managing national media sales and promotion. Rate structures, legal requirements and social and economic effects. 

489/ 889. Advertising and Public Relations Campaigns (3) Lec., Lab. Prereq: Senior standing ADVT 432 and 480. 2.75 GPA. W Multi in teams. Problems and procedures in planning multimedia advertising campaigns. Develop the integrated marketing communications strategy and creative materials needed by a client and to make sound advertising decisions based on research, skills, and applied theory.

490/ 890. Special Topics in Advertising (1-4 cr, max 12) ADVT 490 may be repeated up to three times as long as the topics are different. Topics vary each term.

499D. Honors Course. (1-4 cr) Prereq.: For candidates with distinction, with high distinction, and with highest distinction in the College of Journalism and Mass Communications.

Broadcasting Sequence

Professors: Hull (emeritus), M. ayers (emeritus), Renaud, Walklin

Associate Professor: Christianen

Assistant Professor and General Manager, KRRU-FM. Radio: Alloway

Lecturers: Creggton

Requirements for the Minor in Broadcasting

All courses in broadcasting (BRDC) require a 2.75 cumulative GPA. The broadcasting major is 41 hours with 15 of the hours selected to develop emphasis in either news or production.

All broadcasting majors complete JOU 101, 102, 142, 203, 204, 486, 487 and 6 hours of electives from journalism areas.

Those who pursue a news emphasis also complete N EW S 202, JOU 350, and BR DC 369, 370 and 372.

Those who pursue a production emphasis complete BR DC 227, 228, 359, 360 and 362.
369. News Videography (3 cr) Lec, Prereq: Junior standing; N E W S 201; 2.75 GPA. Use of video procedures and editing for television news.

370. Broadcast News Writing (3 cr) Lec, Prereq: Junior standing; N E W S 202; 2.75 GPA. News track course. Writing style and techniques for broadcast news.


375. Sports Broadcasting (3 cr) Prereq: BR DC 370; 2.75 GPA. Broadcast sports reporting with emphasis on play-by-play sports.

379, Corporate and Organizational Video (3 cr) Prereq: BR DC 369 or parallel; 2.75 GPA. Intensive exploration of television and related visual communications technologies in the corporate and organizational environment. Formulation, production and applications of informational and motivational video communications in corporate and nonprofit operations.

428/428. Advanced Television Production (3 cr) Prereq: BR DC 228; 2.75 GPA. Theory of visualization for television. Practical application of directing techniques, with programs analyzed in relation to translation of facts, ideas, emotions and attitudes through television. Program production experience in the studios of the university station, KUON-TV.

454/454. Broadcast Management (3 cr) Prereq: Senior standing and major in broadcasting; 2.75 GPA. Organizational and management procedures as they relate to the telecommunications media.

455/455. Broadcast Programming (3 cr) Prereq: Senior standing and major in broadcasting; 2.75 GPA. Radio and television program philosophies and formats with emphasis on regulations, responsibilities, economics and audience measurement procedures.

456/456. Cable Telecommunications (3 cr) Prereq: BR DC 228; 2.75 GPA. Development of cable telecommunications systems and relevant regulatory aspects of cable development. Current and future projections of cable systems management systems-telelites, telesets, interactivity, access channels, importation, origination, pay cable.

462/462. Instructional Television (3 cr) Prereq: Senior standing in broadcasting; 2.75 GPA. Preparation of instructional television programs. Historical development of television as an instructional medium, learning and communication theory relevant to proper applications of televised instruction.

466/466. Telecommunication and Information Systems (3 cr) Prereq: Permission of department head; 2.75 GPA. Preparation of elementary courses. The telephone industry, voice and data communication and networking systems. Explores the development and structure of telecommunications, issues, services, applications, technology and management.

469. Advanced Cinematography/Videography (3 cr) Prereq: BR DC 369; 2.75 GPA. Continuation of BR DC 369 with additional emphasis on production of single and double system sound films as well as production of videotapes for television.

473/473. Broadcast Documentary (3 cr) Prereq: Senior standing in broadcasting; BR DC 372; 2.75 GPA. Depth reporting and advanced production techniques necessary for the preparation of a broadcast documentary program.

474/474. Advanced Broadcast Writing (3 cr) Prereq: Senior standing and college of Journalism and Mass Communications; 2.75 GPA. Techniques of planning, preparing and writing radio, television and motion picture scripts including announcements, interviews, talk programs, features, editorials, investigative reports and dramatic adaptations.

489/489. Special Topics in Broadcasting (1-4 cr, max 12) BR DC 489 may be repeated up to three times as long as the topics are different. Topics vary each term.

499, Independent Study in Broadcasting (1-24 cr, max 24) Prereq: 2.75 cum GPA.

499H. Honors Course (1-4 cr) Prereq: For candidates for degrees with distinction, with high distinction and with high distinction in the College of Journalism.

News-Editorial Sequence

Professors: Beren, Botts (emeritus), Norton, Tuck (emeritus)
Associate Professors: Bender, Frazell (emeritus), N. I. (emeritus), Page (emeritus), Saas, Staron, Thornar
Lecturers: N. Anderson, T. Anderson, Johnson, Peonn-Casanova, Q. Ulman, W. Inter

Requirements for the Major in News-Editorial

All courses in news-editorial (NEWS) require a 2.75 cumulative GPA. The courses required for a 41-hour major in news-editorial are as follows:

NEWS 201, 202, 302, 306; and 3 hours from 303, 304 or a 400-level reporting course; 3 hours of elective from any sequence.

JOUR 101, 102, 142, 203, 204, 350, 484, 487

Courses of Instruction (NEWS)

098. Senior Assessment (0 cr) Ind. Prereq: Senior standing; N E W S 350, 398; for candidates for degrees with distinction, with high distinction and with high distinction in the College of Journalism and Mass Communications; 2.75 GPA.

101. Principles of Editing (3 cr) Lec, quiz. Prereq: Completion of all 100-level College of Journalism and Mass Communications core courses; 2.75 GPA. Basic principles of news editing for print media.

102. Beginning Reporting (3 cr) Lec, quiz. Prereq: Completion of all 100-level College of Journalism and Mass Communications core courses; BR DC or N E W S majors; 2.75 GPA. Basic principles of reporting and writing for print and broadcast media.

103. Best Reporting (3 cr) Lec, quiz. Prereq: Completion of all 100-level College of Journalism and Mass Communications core courses; N E W S majors; 2.75 GPA. Skills and techniques for reporters to work a beat and explore issues, documents and sources for some of the most common beats for newspaper reporters.

104. Advanced Editing (3 cr) Lec, quiz. Prereq: Completion of all 100-level College of Journalism and Mass Communications core courses; N E W S 201 and 202; JOUR 203, 204; 2.75 GPA. Line editing, headline writing, news judgement, flow and control of the news in a newsroom, photo editing and layout.

107. News Photography (3 cr) Lec, quiz. Prereq: Completion of all 100-level College of Journalism and Mass Communications core courses; N E W S 201 and 202; JOUR 203, 204; 2.75 GPA. Awareness, knowledge, skills and abilities in the production and interpretation of photographic images in journalism framework.

303. The Magazine Article (3 cr) Prereq: Completion of all 100-level College of Journalism and Mass Communications core courses; N E W S 302; 2.75 GPA. Intensive practice in writing magazine articles for the general and specialized markets. Writing techniques, subject matter research and magazine market research. Students required to offer completed articles in the two market categories to editors for consideration and publication.

306. Lab Newspaper (3 cr) Lec, quiz. Prereq: N E W S 201 and 202; JOUR 203, 204; 2.75 GPA. Publication of a weekly laboratory newspaper.

386. Magazine Editing (3 cr) Lec, Prereq: N E W S 302 and 303; 2.75 GPA. Laboratory problems, scope, influence and responsibilities of the magazine as a cultural and social force. M A R K A T E R research, dealing with authors and photographers, copy editing, editing, illustration of page layout and typographical display.

401. Depth Reporting (3 cr) Lec, Prereq: N E W S 302; 2.75 GPA. Individual assignments and conferences. Gathering and presenting stories that require extensive interviewing, backgrounding, and research.


467/467. School Publications (3 cr) Prereq: Open only to students seeking a 7-12 journalism teaching endorsement; 2.75 GPA. Theory and procedures involved in producing school newspapers, yearbooks, literary magazines and radio/video projects.

479/479. Advanced Graphics (3 cr) Lec, Prereq: N E W S 303, 305; 2.75 GPA. Intensive laboratory experience. Journalism writing and editing with computer graphics technique.

498/498. Special Topics in News-Editorial (1-4 cr, max 12) N E W S 498/498 may be repeated up to three times as long as the topics are different. Topics vary each term.

499. Independent Study in News-Editorial (1-24 cr, max 24) Prereq: 2.75 cum GPA.

499H. Honors Course (1-4 cr) Prereq: Candidate for degree with distinction or high distinction or highest distinction in the College of Journalism and Mass Communications.

* 803. Public Journalism (3 cr) Prereq: N E W S 371 or BR DC 372; 2.75 GPA.

* 804. Newsroom Management and Organization (3 cr)
Reserve Officers Training Corps

Information about the Reserve Officers Training Corps (Army, Navy, Marines, and Air Force) education program, requirements, and courses of instruction is presented on the following pages.

See “College Graduation Requirements” on page 123 for the College of Arts and Sciences policy regarding elective credit in Military Science, Naval Science, Aerospace Studies and physical education and recreation. See “Military Science, Naval Science, Aerospace Studies and/or Physical Education” on page 109 for the College of Architecture policies.

Students who are considering seeking a commission in the Armed Forces should be aware that Department of Defense regulations impose standards of personal and sexual conduct on Armed Forces personnel, as reflected in the Uniform Code of Military Justice, that may not be consistent with University Equal Opportunity standards. For information on these policies contact any one of the commanders of UNL’s ROTC programs or Student Legal Services.

Aerospace Studies

Air Force Reserve Officer Training Corps (Air Force ROTC)

Chair: Lt. Col. Scott D. Vilter, 209 Military and Naval Science Building

The Department of Aerospace Studies conducts the Air Force officer education program. The purpose of the Air Force ROTC program at the University of Nebraska is to commission selected, qualified students as officers in the United States Air Force. The aerospace studies curriculum is a series of professional courses designed to enrich the Air Force ROTC student’s overall academic experience at the University.

Introductory courses in aerospace studies provide information about the relationship of aerospace power to national defense and consider past, present, and future activities in the aerospace area. Freshman and sophomore courses educate students in national defense organization, structure of the Air Force, military alliance systems, aerospace history, and elements of national strength. The junior year is devoted to a study of leadership and management and preparation for active duty through courses in leadership, motivation theory, group dynamics, and principles of management. During the senior year, the cadets examine the relationship of the military to American society and analyze the international and domestic environment affecting US defense policy. The ROTC courses place strong emphasis on communicative skills, leadership, and self-development throughout the program. All Air Force ROTC students are given extensive classroom opportunities to acquire personal and professional skills in human relations, communications, problem solving, and decision making.

Eligibility and Enrollment

Aerospace studies classes are open to all full-time students at the University of Nebraska, as well as students at Nebraska Wesleyan University, Doane College, Concordia University, and Southeast Community College, who have visiting student arrangements with the University of Nebraska for Air Force ROTC. Students register for aerospace studies when they sign up for any other course on campus. For example, a first semester freshman student enrolled in the Air Force ROTC program would register for AERO 185, Foundations of the United States Air Force I, and AERO 185L, Leadership Laboratory.

To contract with the Air Force at the start of the junior year or upon receipt of a scholarship, you must be a US citizen and meet age and other requirements.

Programs

There are three ways you can participate in Air Force ROTC. You can enroll in either the Four-Year, Three-Year, or Two-Year Program. Upon graduation, all cadets are commissioned as second lieutenants in the United States Air Force and serve four years on active duty. Pilots, navigators, and air battle managers incur a longer active duty commitment.

The Four-Year Program. The more popular and preferred program is the traditional Four-Year Program. An interested freshman registers for aerospace studies in the fall term of the freshman year. There is no military obligation for the first two years of the program unless you have an Air Force ROTC scholarship. The first phase of the program, known as the general military course (GMC), is taken during your freshman and sophomore years. The GMC focuses on three main themes: the military officer’s role, the development of air power, and the organization of today’s Air Force. The first two years places heavy emphasis on opportunities and benefits of an Air Force career so each cadet can make an informed decision before they commit themselves to military service. Cadets also attend Leadership Laboratory where they learn about career opportunities and benefits in the Air Force, as well as practice military drill and ceremonies, leadership, customs and courtesies. Classroom instruction and the Leadership Laboratory take about 3 hours per week. Textbooks
for all Air Force ROTC courses and uniforms will be provided free. After successful completion of the War College, cadets compete for the professional officer course (POC), taken during the last two academic years in college. Cadets may complete the program while earning an undergraduate or graduate degree or any combination of the two. If selected, cadets attend a four-week summer field training encampment before entering the POC. Professional officer course classes normally meet three hours per week. Students will take part in group discussions and group problem-solving seminars, discover Air Force theories of management, analyze the role of today's U.S. Armed Forces, and examine a broad range of American domestic and international military relationships.

Members of the POC also take Leadership Laboratory to apply their leadership and management training.

The Three-Year Program. Students who have already completed one year of college can join the AFROTC Three-Year Program. It is identical to the Four-Year Program except students take the freshman and sophomore aerospace studies classes in one year instead of two.

The Two-Year Program. The Air Force ROTC Two-Year Program was devised to accommodate junior college transfer students, veterans, and those students who did not take the first two years of Air Force ROTC. The program is available for all University students having two years of study remaining at the undergraduate level, the graduate level, or a combination of the undergraduate and graduate levels. Any student with less than four years but at least two years of study remaining, is eligible. Entry in the Two-Year Program is competitive and is based on college major, cumulative GPA, medical examination, physical fitness, and a personal interview. If accepted, cadets complete a six-week field training encampment. This training is basically the same as the four-week course with additional academic training. Upon successful completion, cadets enter the POC. Scholarship opportunities are available.

Scholarships

High school and college students compete for Air Force ROTC college scholarships. At the University of Nebraska-Lincoln, these flat rate scholarships provide full tuition, fees, textbook allowance, and a monthly tax-free allowance during the school year ranging from $250 to $400.

High School

Competitive four-year scholarships are available to high school seniors and graduates who haven't enrolled as full-time college students. In some cases, the entitlements may be extended up to 5 years. The scholarship program is especially targeted to those pursuing engineering and scientific academic degrees. However, there are scholarships available for those enrolling in selected nonacademic degree programs, especially foreign area and foreign language studies. Applying for an Air Force ROTC scholarship doesn't obligate you in any way. Scholarship applications can be obtained from your high school counselor or the University Air Force ROTC detachment and are also available online at www.unl.edu/afrotc/ and www.afrotc.com.

Deadline for submitting the completed scholarship package is December 1 of the senior year of high school. Apply early for a better chance of selection. Air Force ROTC scholarship award winners are also eligible for University of Nebraska-Lincoln supplementary scholarships which can be applied to room and board expenses.

College

Air Force ROTC offers college students two- and three-year scholarships. These scholarships offer the same benefits as those listed above. A significant number of Air Force ROTC scholarships are awarded to college students each year. These scholarships are available in both technical and nontechnical degree programs. Scholarship applicants are selected using the "whole person" concept. This includes objective factors (cumulative GPA, SAT/ACT, and the Air Force Officer Qualifying Test) and subjective factors like performance and officer potential. All academic majors are eligible for the scholarship. Members of the Air Force ROTCCadet Wing are eligible for several other scholarships provided by the University of Nebraska-Lincoln.

Additional Benefits

Students enrolled in the freshman and sophomore courses receive all Air Force ROTC textbooks and uniforms free of charge. Junior, senior, and all scholarship students receive aerospace studies textbooks, uniforms, and a monthly tax-free allowance during the school year ranging from $250 to $400.

Curriculum

Any University of Nebraska-Lincoln, Doane College, Nebra ka Wesleyan, and Concordia University students may take aerospace studies academic courses for college credit. Textbooks are provided free. No active duty obligation is incurred. Laboratory and laboratories are open only to students eligible for, and enrolled in, the Air Force ROTC program.

Credit Hours. Credit hours earned by students enrolled in aerospace studies may be used to fulfill elective credit hour requirements for graduation for any college in the University. Students should contact their college advisers to determine the number of credit hours that will apply toward degree requirements in each particular area. Completion of freshman and sophomore courses in aerospace studies earns students 1 credit hour each semester. Completion of junior and senior courses earns students 3 credit hours each semester.

Credit Substitution. Substituting credit may be granted for all or part of the freshman and sophomore courses in the following cases: 1) for veterans with honorable service in any branch of the United States armed forces; 2) for ROTC courses in any branch of the service successfully completed at the high school or college level; and 3) for a certificate of completion for Civil Air Patrol training.

Military Obligation

No military obligation results from enrolling in the freshman or sophomore courses in aerospace studies. This provides an opportunity for a student to come into the program and "try it on for size." A military obligation occurs only when a student enters the junior year of the program or accepts an Air Force ROTC scholarship. Students who complete Air Force ROTC are commissioned as second lieutenants and will go on active duty in the United States Air Force after graduation from the University. The active duty service commitment for non-flying officers is four years. For pilots, navigators, and air battle managers, active duty service is ten, six, and six years respectively following the completion of their initial training (approximately one year each).

Careers. In addition to pilot and navigator positions, well over 100 other career areas are available to Air Force officers including various types of engineering, personnel, administration, intelligence, acquisition, computer science, medical, legal, meteorology, and aircraft maintenance. Attendant benefits associated with officer status include managerial positions, great pay and financial benefits, travel, and leadership opportunities. Air Force ROTC provides general officer education; no specialty or job training is conducted. Specialized professional training is given after the officer is commissioned and enters active duty. Students are normally assigned to Air Force duties that parallel their major fields of study in college.

Delay for Graduate Education. An Air Force ROTC student is commissioned upon graduation from the University. If students are qualified for and interested in working toward advanced degrees, deferment from active duty may be possible until graduate degrees have been completed.

Field Training Program

Each student who successfully receives a competitive allocation to enter the junior year professional officer course (POC) program must attend one field training encampment. This training is given at various Air Force bases during the summer, normally before entering the POC. Field training emphasizes development of leadership abilities and informs students of the many challenging career opportunities available in the Air Force. Survival and physical conditioning training are included also. Students receive travel allowances and pay for field training. All accommodations, clothing, and food are furnished. There is no obligation or commitment incurred for attending field training.

Extramural Activities

Air Force ROTC extramural activities are of a professional, honorary, community service, and social nature designed to develop leadership qualities and to stimulate further interest in the air and space power in the United States and the world.

Arnold Air Society. The Arnold Air Society is a professional, honorary, service organization. Membership is open to all students enrolled in the Air Force ROTC program. Arnold Air Society sponsors charitable and community activities.
such as projects for orphans and retirement homes, and Big Brothers/Big Sisters. The purpose of the society is to: 1) aid in developing effective Air Force officers; 2) create a closer relationship for students in Air Force ROTC; 3) further the purpose, tradition, and concept of the United States Air Force; 4) support airpower in its role in national security; 5) advance air and space-age citizenship; and 6) foster a clearer understanding of the roles and objectives of the Air Force.

**Pershing Rifles.** The National Society of Pershing Rifles is a tri-service organization that focuses on the development of leaders. The purpose of Pershing Rifles as stated by its founder, General John J. Pershing, is "to foster a spirit of friendship and cooperation among men in the military department and to maintain a highly efficient drill company."

In 1891, General Pershing became Professor of Military Science and Tactics at the University of Nebraska. He, wishing to improve the morale of Military Science and Tactics at the University of Nebraska, established a drill company organized around the name of "Varsity Rifles." In 1894, the university discontinued Pershing's activity, so the company became a fraternal organization bearing the name of "Pershing Rifles." Company A-2, the oldest chapter of the National Society of Pershing Rifles, is located in the Pershing Military and Naval Science Building at UNL.

All members of Pershing Rifles strive to follow the example set by General Pershing, who later went on to earn the rank of General of the Armies, the highest rank held by any member in the military.

**Silver Wings.** Silver Wings (SW) is a national, coed, professional organization dedicated to creating knowledgeable and effective civic leaders through community service and education about national defense. It is a professional, honorary service organization open to all students enrolled in Air Force ROTC. It competes nationally in drill, marksman, and tactics. Additionally, the National Headquarters for Pershing Rifles is located within the Pershing Military and Naval Science Building at UNL.

The leadership and skills development objectives are: 1) Personal Development of individual members by providing opportunities and projects that provide leadership training. 2) Civic Awareness: Exposure to Air Force issues and personnel enables members to develop a personal awareness of aerospace power and the role that it plays in the national defense. 3) Civic Awareness: developing leadership and civic development opportunities and the chance to develop leadership skills in leadership roles. 4) Civic Awareness: providing leadership skills opportunities and benefits in today's US Air Force. A weekly one- and one-half hour Leadership Lab consists of Air Force customs and courtesies, Air Force environment, drill and ceremonies.

**Civil Air Patrol/Flight Orientation Program.** Provides Air Force cadets an opportunity for aviation and aerospace education and training so as to gain a better appreciation for aviation by flying in a small private aircraft.

**Color Guard.** Provides ceremonial support for AFROTC functions as well as university and local civic events. Membership is open to all students enrolled in Air Force ROTC.

**Dining-Out.** The Dining-Out is a formal social event held during the fall term that recognizes military customs, traditions, and procedures handed down from the Roman Legions. The AFROTC Corps invites parents, other family members, university faculty, dates, and alumni to the function. An Air Force senior officer is invited to be the guest speaker.

**Field Trips.** Each year a field trip is scheduled to one of the many Air Force bases located around the country. In the past few years, Air Force ROTC students have visited Cape Kennedy; Wright-Patterson AFB, Ohio, where the students toured the Air Force Museum; Ellsworth AFB, South Dakota, where the students toured the B-52 and B-1; the Lockheeds in Colorado Springs, Colorado; Edwards AFB, Texas; where the F-16 is built; Whiteman Air Force Base, Missouri, where the students were given a cockpit tour of the B-2 bomber and talked to the Secretary of the Air Force; Luke AFB, Arizona, where the students received F-16 incentive flights and shadowed Air Force officers during a normal duty shift; and Peterson AFB, Colorado, where students toured the North American Aerospace Defense Command (NORAD) and the Air Force Academy, located near Colorado Springs, Colorado.

**Intramural Sports.** Open to all cadets, intramural sports include softball, football, basketball, volleyball, soccer, and other sports.

**Monthly Newsletter.** The Air Force ROTC monthly newsletter concentrates on events and concerns of the corps. The newsletter is published by cadets.

**Stadium Security Assistance.** Air Force ROTC cadets, in conjunction with other ROTC programs, provide support for the athletic department during home football games and other university-sponsored events.

**Courses of Instruction (AERO) - The General Military Course (Freshman and Sophomore Courses)**

This course is designed to acquaint the student with aerospace power and its role in accomplishing the Air Force mission in our national defense. It also outlines the benefits of an Air Force career.

**185. Foundation of the United States Air Force I (1 cr) Overview, responsibilities, skills opportunities, and benefits in today's USAF. Weekly one and one-half hour Leadership Lab consists of Air Force customs and courtesies, Air Force environment, drill and ceremonies.**

**185L. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**185R. Air Force Leadership Studies I (1 cr) Communication and leadership development. Principles of leadership, communication, and professional ethics.**

**185S. Foundation of the United States Air Force II (1 cr) Communication and leadership development. Principles of leadership, communication, and professional ethics.**

**185L. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**186. Foundation of the United States Air Force II (1 cr) Communication and leadership development. Principles of leadership, communication, and professional ethics.**

**295L. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**295R. Air Force Leadership Studies II (1 cr) Communication and leadership development. Principles of leadership, communication, and professional ethics.**

**331. Air Force Leadership Studies I (3 cr) Prereq: Permission of professor of aerospace studies. Communication, leadership, and professional ethics.**

**331L. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**332. Air Force Leadership Studies II (3 cr) Prereq: AERO 331 or permission of professor of aerospace studies. Communication, leadership, and professional ethics.**

**332L. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**441L. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**441R. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**442L. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**442R. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**The Professional Officer Course (Junior and Senior Courses)**

The junior- and senior-year course in aerospace studies emphasizes the personal development and leadership qualities essential to an Air Force officer. The student participates in staff planning, problem solving, and exercises that demonstrate leadership ability.

**331L. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**332L. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**441. National Security Affairs and Preparation for Active Duty I (3 cr) Prereq: AERO 331, 332, or permission of professor of aerospace studies. Environmental in which defense policy is formulated. Requirements for maintaining adequate national security forces politically, economically, and socially.**

**441L. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**442. National Security Affairs and Preparation for Active Duty II (3 cr) Prereq: AERO 331, 332, and 441 or permission of professor of aerospace studies. Environmental in which defense policy is formulated. Requirements for maintaining adequate national security forces politically, economically, and socially.**

**442L. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**

**442R. Leadership Laboratory (0 cr) Successful completion of this course is required for commissioning PT. No Fail permitted. Guest speakers on leadership, communication, and professional ethics.**
Military Science

Army Reserve Officers Training Corps (ARO TC)

Chair: LTC Elizabeth M. Cisne, Room 110, Military and Naval Science Building

Military science is the U.S. Army ROTC program offered at the University of Nebraska-Lincoln. Its objective is to attract, motivate, prepare, graduate, and commission students with potential to serve as commissioned officers in the Regular Army or the U.S. Army Reserve and National Guard components to provide an understanding of the fundamental concepts and principles of military science; to develop leadership and managerial skills; to develop a basic understanding of associated professional knowledge with a strong sense of personal integrity, honor, and individual responsibility; and to develop an appreciation of the requirements for national security. Through military science classes and the ROTC program, the student who desires a commission may earn one while pursuing a degree.

The Reserve Officers Training Corps is a cooperative effort contractually agreed to by the Army and the University of Nebraska-Lincoln as a means of providing junior officer leadership in the interests of national security. It ensures that students educated in a broad spectrum of American institutions of higher learning are commissioned annually in the Army officer corps. At the University of Nebraska-Lincoln, military science is an elective program that a student may schedule in the same manner as any other elective course. The four-year program consists of a basic course, taken during the freshman and sophomore years, and an advanced course, taken during the junior and senior years. Academic credits earned may apply toward the student's degree, depending on the discipline. The program provides leadership training designed to qualify graduates for civilian careers in executive and management positions, or as commissioned officers in the U.S. Army. The ROTC program promotes the mental, physical, moral, and leadership development of students.

Curriculum

Military science is not an academic major. Students earn commissions at the same time they earn an academic degree in any discipline of their choice. Credits earned through the Army ROTC program may apply toward a student's bachelors degree. The curriculum cuts across conventional subject boundaries and becomes interdisciplinary. It encourages reflective thinking, goal seeking, and problem solving. Basic and advanced courses in military science are listed each semester in the University's Schedule of Classes. In the basic course, you earn from 1 to 2 credits each semester; in the advanced course, 3 credits each semester. A total of 24 credits can be earned over the four academic years. Uniforms, textbooks, and equipment are furnished at no cost to the student.

Leadership Training. Leadership training is required each semester as part of the military science curriculum of those seeking a commission. It is not required of those students just taking ROTC as an academic class. This training is accomplished through a leadership laboratory conducted two hours each week and one field exercise each semester.

In the basic course, an understanding of teamwork and leadership techniques is developed. This experience in leadership is enhanced through practical application in rappelling, land navigation, and map reading. Marksmanship, personal defense activities, survival swimming, military weapons, drill and ceremony, leader reaction exercises, and simulated small unit tactical exercises in field situations. Advanced course students plan, organize, and conduct the basic course leadership training program, field exercises, and enrichment activities. Leadership and managerial skills are further developed through these activities.

Enrollment in Military Science

Military science academic (basic) courses may be taken for credit by any University of Nebraska-Lincoln student. Military science advanced courses may only be taken by students who have contracted to earn a commission. Students register for military science courses in the same manner as for any other accredited University course.

Credit for Military Science

Students who have completed initial entry training in one of the armed services, Army Reserves, or Army National Guard, or attended one of the service academies may be granted credit for the basic course and enrolled in the advanced course. Additional credit for active military service or academy attendance may be granted by the professor of the Department of Military Science.

ROTC credit earned at other universities or colleges is transferable to the University of Nebraska-Lincoln. Students who have participated in junior ROTC in high school for three years may be granted credit for the basic course and enrolled in the advanced course. Credit is authorized for less than three years in junior ROTC upon review by the professor of the Department of Military Science.

Obligations

There is no service obligation incurred by taking ROTC in the freshman or sophomore year (basic course). If selected for and enrolled in the advanced course, the student must agree to complete the remaining two years of ROTC and to accept a commission as a second lieutenant, if offered, upon graduation and completion of ROTC program.

ROTC graduates incur one of several obligations. As commissioned officers, they may serve on active duty for a minimum period of three years for branch qualification and the remainder of eight years in an active reserve component. A second option is to serve on active duty followed by service in the Reserve Forces for a total service of eight years. The third option is to become a Regular Army officer with the intent of making the active Army a career.

Financial Assistance

Four-year ROTC scholarships are offered on a competitive basis to all high school seniors who plan to attend the University of Nebraska-Lincoln. Two- and three-year scholarships are available to qualified full-time undergraduate students. Each scholarship will pay all tuition, laboratory expenses, and fees, and $900 for books and supplies and, in addition, an allowance of $300-$500 per month (tax free) for the school year. In addition, there are other ROTC scholarships available for those pursuing a graduate degree.

Subsistence payment is made to all students who enroll in the advanced course. They receive $450 (as a junior) and $500 (as a senior) per month during the school year session tax free. In addition, a sum of approximately $700 is received while attending the Leader Development and Assessment Course (LDAC).

Leader Development and Assessment Course (LDAC)

Advanced course students must attend LDAC, normally during the summer between the junior and senior year. At the discretion of the professor of the Department of Military Science, attendance may be postponed until the end of the advanced course.

LDAC consists of practical application of instruction that has been given at the University. Students fire weapons, practice land navigation, and employ the tactics they have learned.Cadets are evaluated in a variety of potentially stressful leadership situations. Leadership is emphasized. Students are paid travel expenses to and from the course and, in addition, receive pay of approximately $700 while there. All accommodations, clothing, and food are furnished.

Two-Year Program

This program accommodates students already enrolled at or transferring to the University of Nebraska-Lincoln who have not taken the basic course. Students enrolled in the two-year program may select one of several options. The first and best option is to successfully complete the Leader Development Training Course (LTC) during the summer before entering the advanced course. Students are paid travel expenses to and from LTC. They receive approximately $700 in pay and free room and board. No military or ROTC obligation is incurred by LTC attendance. A second option is to take both the first-year and second-year basic course programs at the same time. Any one of these options substitutes for the two-year basic course program. Upon entering the advanced course the two-year student takes the same curriculum as all other advanced course students.

Supplementary Programs

Simultaneous Membership Program (SMP)

Provisions of SMP permit full-time college students with two, and on a case by case basis three, years of college remaining to actively participate concurrently in the ROTC advanced course and a National Guard or Army Reserve unit.
Combined benefits include tuition assistance, Montgomery GI Bill—Select Reserve (if eligible), monthly pay, and monetary allowances during summer training. Once accepted into the program, the students enroll in Army ROTC courses right along with those courses required for degree completion. The students meet with the N ational Guard or Army Reserve one week-end each month and serve as a non-deployable officer trainee with a minimum pay grade of sergeant or higher. The $450 (as a junior) and $500 (as a senior) monthly allowance received from ROTC is tax free. Participation in S MP will not interfere with other college assistance you may be receiving.

Upon successful completion of the training program and graduation, you will be eligible for a commission as a second lieutenant in the active Army, Army Reserve, or N ational Guard.

Airborne/ Air Assault/ Northern Warfare/ Mountain Warfare Schools. Interested and qualified cadets may volunteer for these summer opportunities while attending the University.

Advanced Military Science
HIST 302/802. United States Military History Since 1917 (3 cr). Either of these two courses satisfies the military history requirement of the advanced program. Consult the Department of History section on page 176 of this publication for course description.

Professional Military Education Requirements (PME). For all cadets there is a requirement to successfully complete an Enhanced Skills Training Program. This requirement may be waived for students with adequate ACT/SAT scores. Advanced course cadets, prior to receiving their commission, must also have completed one of the required military history courses. Courses in management and national security studies are also recommended, but are not required.

Courses of Instruction (MLSC)

Basic Military Science

101. Leadership Laboratory I (0 cr) Leadership lab is required for all cadets. For course description, see MLSC 101L.

102. Leadership Laboratory II (0 cr) [Leadership lab is required for all cadets. For course description, see MLSC 102L.

103. Basic Leadership (1 cr) Foundations of leadership: problem solving, communications, military briefings, effective writing, goal setting, physical well-being, techniques for improving listening and speaking skills, and counseling.

104. Leadership Laboratory VII (0 cr) Lab. Leadership workshop providing the opportunity to practice leadership and managerial skills through practical application. Leadership laboratory programs are developed, planned, and conducted by the students registered in these workshops.

105. Leadership Laboratory VIII (0 cr) Lab. Leadership workshop providing the opportunity to practice leadership and managerial skills through practical application. Leadership laboratory programs are developed, planned, and conducted by the students registered in these workshops.

Naval Science

Naval Reserve Officers Training Corps (NROTC)

Chair: Col. Eric T. Litaker, 103 M ilitary and Naval Science Building

www.unl.edu/nrotc

Today our nation faces a variety of global challenges to its vital interests. The N aval Reserve Officer Training Corps at the University of Nebraska at Lincoln offers the Naval NROTC students a wide variety of courses for recent college graduates and mid-career professionals interested in the military. The NROTC programs allow students to select any academic study that leads to a bachelor's degree and still enjoy college life in a non-military environment.

NROTC is a highly competitive program established for a single purpose: educate men and women for service as commissioned officers in the United States Navy and Marine Corps. University ROTC graduates are best young men and women. Many of our Nation's military academies and universities for service as commissioned officers in the United States Navy and Marine Corps.

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NROTC is a highly competitive program established for a single purpose: educate men and women for service as commissioned officers in the United States Navy and Marine Corps.
Benefits for a period up to five years can be authorized. For details, see the Professor of Naval Science at the University of Nebraska-Lincoln. During the years of college training, the Navy pays tuition, $750 per year textbook allowance ($375 per semester), fees of an instructional nature, and a subsistence allowance of $250 per month for freshman, $300 per month for sophomores, $350 per month for juniors and $400 for seniors. Midshipmen are required to pay for the amount of time equal to their prior service up to a ceiling of 30 years.

4. Physically qualified in accordance with Navy standards.
5. High school graduate or possess an equivalency certificate.
6. Have no moral obligations or personal convictions that will prevent conscientious bearing of arms and supporting and defending the Constitution of the United States against all enemies, foreign or domestic.

If selected for a scholarship and upon enrollment into an NROTC scholarship program, you must agree to:
1. Complete prescribed naval science courses, university courses, drills, and summer training periods.
2. Accept a commission in the Navy or Marine Corps, if offered.
3. Serve a minimum of four years in an active duty status and four years in an inactive ready reserve status.
4. Enlist in the United States Navy or Marine Corps Reserve in pay grade E-1 prior to being appointed a Midshipman. A minimum of two years of active enlisted service may be required of scholarship students who default from the terms of their NROTC contract after commencement of their sophomore year.

Scholarship students who default during their freshman year will not incur an active duty commitment unless they were active duty enlisted personnel discharged early for the purpose of accepting the scholarship.

Four-Year Scholarship Program. Four-year NROTC scholarships are awarded annually based on a competitive selection process in which consideration is given to such factors as high school record, college board scores, extracurricular activities, and leadership qualities. Highly qualified candidates not selected for four-year scholarships due to limited vacancies, may compete for three-year scholarships commencing with their sophomore year contingent upon satisfying the following requirements as freshmen: a) NROTC College Program enrollment; b) minimum grade point average of 3.0; c) a positive recommendation from the NROTC unit commanding officer; and d) physically qualified in accordance with Navy standards.

Men or women interested in applying for either the United States Navy or the United States Marine Corps Scholarships should contact the Professor of Naval Science at the University of Nebraska-Lincoln at (402) 472-2475.

Two-Year Scholarship Program. The Two-Year NROTC Scholarship Program provides tuition, textbooks, fees of an instructional nature, uniforms, and a subsistence of $350 per month for juniors and $400 per month for seniors during the last two years of college. If you are a non-NROTC student attending the University of Nebraska-Lincoln, or if you transfer to this university, you can take advantage of this two-year program. In any case, you should submit your application through the Professor of Naval Science at the University of Nebraska-Lincoln or through the Navy-Marine Corps Scholarship Program specifically for students entering the University of Nebraska-Lincoln from among students already attending or selected for admission by the University.

College Program students who join the NROTC in the same year as their contemporaries in the NROTC Navy-Marine Corps Scholarship Program take the same naval science courses, wear the same type of uniform, and graduate with them, but attend college at their own expense. They take all naval science courses offered, and, upon successful completion and graduation, are commissioned to serve on active duty for three years. (Scholarship graduates are obligated to serve four years of active duty.)

College Program students also receive government-furnished uniforms and all books required for naval science courses. During the junior year, College Program students receive $350 per month, increasing to $400 per month as seniors for a maximum of 20 months.

College Program students, by obtaining a professor of naval science nomination, may also gain scholarship status by competing for one of the Chief of Naval Education and Training Scholarships, normally offered semiannually.

Young men and women have a choice of two basic programs: the Four-year College Program or the Two-year College Program. Both lead to commissions as Navy or Marine Corps Officers.

General Requirements for the NROTC College Programs
1. Acceptance for admission as a student to the University of Nebraska-Lincoln.
2. At least 17 years of age and not have reached 27 by June 30 of the year of your college graduation.
3. United States citizen.
4. Physically qualified in accordance with Navy standards.
5. Possess a satisfactory record of moral integrity, academic and extracurricular activities, and manifest potential officer characteristics.
6. Have no moral obligations or personal convictions that will prevent conscientious bearing of arms and supporting and defending the Constitution of the United States against all enemies, foreign or domestic.

Four-Year College Program. This is a program specifically for students entering college as freshmen. As a first-year College Program student you will receive all required uniforms and naval science textbooks. Beginning in your junior year, you will also receive a monthly tax-free subsistence allowance of $350 as a junior and $400 as a senior for a maximum of 20 months. In return for these benefits you will be required to successfully complete naval science courses and a few specific university courses, and attend one summer training session, normally at sea.

No active duty obligation is incurred until you begin the advanced course which is usually started in the junior year. The active duty obligation then becomes three years as the Navy or Marine Corps does not require the longer obligation incurred in pursuit of some specialties. After graduation from college and completion of your NROTC requirements, you will be commissioned an Ensign in the Navy or a Second Lieutenant in the Marine Corps, ready to serve three years or more of active duty.
Students majoring in the College of Arts and Science may take additional naval science courses beyond the 12-credit-hour maximum. Students majoring in the College of Arts and Sciences may only count up to 12 credit hours in naval science courses toward their degree.

Two-Year College Program. This program is similar to the Two-Year Scholarship Program (see above). The application is processed through the Professor of Naval Science at the University of Nebraska-Lincoln prior to their sophomore year.

You will attend the six-week Naval Science Institute, where upon completion you will be enrolled in the NROTC program and begin receiving free naval science textbooks and uniforms, and a monthly stipend of $350 as a junior and $400 as a senior through the end of your senior year.

Two-year college program graduates are commissioned in the Navy or Marine Corps and serve the same three years of active duty as students in the Four-year College Program.

Marine Corps Option Program. Students in this program become qualified for a commission as a second lieutenant in the Marine Corps. Application must be made before the junior year in college. If selected for the Marine Corps option, you will take courses pertaining to the Marine Corps during your last two years instead of the normal naval science courses. You will attend summer training at Quantico, Virginia, rather than taking shipboard at-sea training between your junior and senior years.

Naval Science Open Curriculum

Any U. S. citizen who can pursue a degree in naval science and is accepted by the University of Nebraska-Lincoln student may take naval science academic courses for college credit. However, enrollment in leadership laboratories is restricted to students who are formally enrolled in the NROTC program. Texts and instruction for naval science courses are provided free. No active duty obligation is incurred.

Integrated Studies Minor in Naval Science

It is possible to minor in naval science under the integrated studies program of the College of Arts and Sciences. All interested students enrolled in that college are eligible.

An integrated minor requires a minimum of 25 credit hours, including 10 in one department. The choice in the naval science minor is made from the list of courses that follows. Approval of the course of study must be obtained from the student’s arts and sciences adviser and endorsed by a representative of the dean of the College of Arts and Sciences.

This integrated minor is available also to College of Agriculture and College of Education and Human Sciences students with the approval of their advisers.

NOTE: Although students may take additional naval science courses beyond the 12-credit-hour maximum, credit in these will not count toward the degree in the College of Arts and Sciences. Students majoring in the College of Arts and Sciences may only count up to 12 credit hours in naval science courses toward their degree.

Courses cross listed between naval science and other departments of the College of Arts and Sciences are not included in this restriction.

Students enrolled in the NROTC program must take 17 credits in naval science subjects to earn a commission and should schedule HIST 304 and ALEC 302 at the time of asking their College of Arts and Sciences adviser for approval of their program.

N AVS 111. Intro to Naval Science (2 cr)
N AVS 222. Naval Ship Systems I (Weapons) (3 cr)
N AVS 231. Naval Ship Systems II (Engineering) (3 cr)
N AVS 321. Evolution of Warfare (3 cr)
N AVS 322. Naval Operations (3 cr)
N AVS 330. Navigation & Operation I (3 cr)
N AVS 412. Leadership & Ethics (3 cr)
N AVS 421. Amphibious Warfare (3 cr)
ALEC 302. Dynamics of Leadership in Organizations (3 cr)
HIST 304. United States Military History Since 1917 (3 cr)

Plus one of the following courses:

HIST 347. History of United States Foreign Relations to 1909 (3 cr)
HIST 348. History of United States Foreign Relations Since 1909 (3 cr)
POLS 363. United States Foreign Policy (3 cr)
POLS 426. Topics in American Public Policy (3 cr)
POLS 469. International Law (3 cr)

After Graduation and Commissioning

Upon satisfactory completion of naval science and bachelor’s degree requirements, a Midshipman transfers from reserve status to active duty and receives a commission as an officer in the naval service. Graduates are commissioned as Ensigns in the Navy or as Second Lieutenants in the Marine Corps.

NROTC graduates have an equal competitive opportunity with their contemporaries for promotion and eventual progression to the rank of admiral in the Navy or rank of general in the Marine Corps. Promotion is earned by continued growth through professional study and demonstrated competence in assigned duties. Few professions hold greater promise for the ambitious man or woman than a career in the Navy or Marine Corps.

Navy ROTC Graduates. A newly commissioned Ensign is normally assigned to duty aboard a surface ship, a nuclear-powered ship or submarine, or with an aviation squadron, after a period of specialized training in the appropriate warfare specialty. The NROTC Program is a pipeline primarily to the aviation, submarine, and surface communities.

The newly commissioned Ensign assigned duty aboard a surface ship can serve on a variety of classes of surface ships including aircraft carriers, cruisers, frigates, destroyers, amphibious ships, and auxiliary ships. They receive an additional year of graduate-level schooling if approved for nuclear propulsion training.

The prospective submariner enters a one-year program of graduate-level schooling in nuclear propulsion and nine weeks of submarine training. Successful completion of this program leads to duty aboard ballistic missile and attack submarines.

The prospective aviation officer enters a program of approximately two years of pilot or naval flight officer instruction. Successful completion of this training leads to designation as a naval aviator or naval flight officer.

Other specialty areas available to Navy graduates include nursing, special warfare, and medical/dental corps. NROTC graduates can apply for follow-on training at medical or dental school through a competitive process.

Marine Corps Graduates. All newly commissioned Marine Corps Second Lieutenants are assigned to The Basic School, Quantico, Virginia, for further training, orientation, and enhancement of basic skills. After The Basic School, several occupational fields are available for assignment, including infantry, aviation (Marine Corps officers selected for aviation receive flight training at Pensacola, Florida, along with their Navy contemporaries), artillery, tracked vehicles, engineering, communications, supply administration, and computer science, among others. Following The Basic School and training in the assigned occupational field, most lieutenants are assigned to the Fleet Marine Force of the Marine Corps.

Extracurricular Activities

Midshipmen participate in all forms of campus activities that broaden their interests and provide leadership experience. Extracurricular activities available through NROTC are:

Campus Athletics. Intramural and intraclass programs of athletics are available to all Midshipmen.

Drill Team. The NROTC exhibition drill team is open to all Midshipmen. It has enhanced the reputation of NROTC through its performance throughout the state. It also competes against drill teams of other services and takes a number of out-of-state trips during the academic year.

Navy/Marine Corp Birthday Ball. The high point of the social season for all Midshipmen, this formal affair honors graduating Midshipmen.

NROTC Field Trips. Visits to certain Navy, Marine Corps, and other service installations throughout the country are scheduled during the school year.

NROTC Flag Football Team. Open to all Midshipmen, the team competes with university intramural teams as well as teams from other ROTC units.

NROTC Rifle and Pistol Team. Both teams are open to all Midshipmen, offer training in the use of small arms and the experience of team competition. Weapons, ammunition, and range facilities are provided. Team trips to other universities are scheduled throughout the school year.

NROTC Sail Team. Open to all Midshipmen, the team competes at regattas with other ROTC sailing teams.
Courses Taught by the Department of Naval Science

100. Naval Orientation Lab (0 cr) Successful completion of this course is required for commissioning. Naval Orientation requires one and one-half hours participation per week. Continuing program offering an introduction to the various aspects of Navy life. Conducted each semester in the NROTC program.

111. Introduction to Naval Science (2 cr) Introduction to seapower and the naval service. The mission, organization, regulations, and broad warfare components of the Navy and Marine Corps. Officer and enlisted rank and rating structures; training, promotions, naval customs and courtesies; ship nomenclature; leadership and discipline. Throughout the course students are apprised of the major challenges facing today’s naval officer.

222. Naval Ship Systems II (Weapons) (3 cr) Prereq: MATH 101 or permission of department chair. Concepts of naval weapons systems, automatic control systems, and communication systems are explored. Components of the weapon system, including sensors and detection systems, tracking systems, computational systems, launching devices, and projectiles. Once the weapon systems have been defined, they are analyzed solving classic fire control problems and in more modern “total system integration.” Command, control, and intelligence (C4ISR) and the impact that computers play in this area. Student presentations are utilized to help them understand how the theory presented is used in modern naval weapons systems.

231. Naval Ship Systems I (Engineering) (3 cr) Basic considerations for hull design for naval vessels, related to buoyancy, equilibrium, stability, and the effects of flooding on the design characteristics of naval vessels. Basic principles and components of a ship’s propulsion system and their relation to all other ship’s systems, and the interrelationships and interdependency of all of a ship’s systems to the successful mission of a ship.

321. Evolution of Warfare (3 cr) Prereq: Junior or senior standing, or permission of department chair. History of warfare and its evolution from the beginning of recorded history to the present.

322. Naval Operations (3 cr) Prereq: NAVS 331, or permission. Principles essential for an understanding of and a working capability in both safe navigation and decision making. Comprised of a detailed and applied analysis of relative motion, ship handling, and “rules of the sea.”

331. Navigation and Operation I (3 cr) Prereq: MATH 102 or 103 or permission. Theories, computations, practices, and techniques of terrestrial and celestial navigation together with the theory involved in advanced electronic navigation systems.

412. Leadership and Ethics (3 cr) Equips the Navy NROTC student with the skills and abilities needed for competence as a commissioned officer. Theory of leadership and management and practical application. Professional ethics and law within the scope of the military environment. Capstone course builds upon and focuses the managerial and professional competencies developed during prior at-sea training and naval science courses.

421. Amphibious Warfare (3 cr) Prereq: Junior or senior standing, or permission of department chair. History, development, and role of amphibious warfare. Doctrine for planning and execution of amphibious operations.

Courses Taught by Other Departments

ALEC 302. Dynamics of Leadership in Organizations (3 cr)

HIST 304. United States Military History Since 1917 (3 cr)

Calculus—Two courses of integral calculus (Navy scholarship)

Physics—Two courses of calculus-based physics (Navy scholarship)

Six credit hours of English concentrating in grammar and composition.

A course studying world cultures and different regions of the world. Three credit hours in a course concerning national security policy or military history.
Mission

The mission of the University Libraries, as an integral part of the University of Nebraska-Lincoln's diverse academic community, is to provide access to information through the teaching, interpretation, acquisition, organization, and preservation of information resources in all forms, to the UNL community, the state of Nebraska, and beyond.

The mission is accomplished by fostering a forward-looking environment for the creation, dissemination, and utilization of knowledge, applying the principles of information management.

The Libraries Today

The University Libraries, Nebraska's only comprehensive research library, is comprised of Love Library and six branch libraries where traditional library services are blended with today's digital innovations. In the branches, students will find specialized collections on subjects such as Architecture, Engineering, Geology, Mathematics, and Music. Agricultural materials can be found at the C.Y.T. Thompson Library on the East Campus. Love Library, the six branch libraries and the Marvin and Virginia Schmid Law Library offer both in-house and remote access to an ever-developing online information service called the Innovative Research Information System (IRIS), located on the World Wide Web at iris.unl.edu.

IRIS currently includes the Libraries' electronic catalog, general and specialized article indexes, full-text electronic journals, electronic books, statistical databases, and a host of Internet resources. In addition to general reference and research assistance, the Libraries provide basic library instruction, specialized bibliographic instruction, interlibrary loan and document delivery services, and full departmental liaison services.

"Ask a Question" is a service that lets students, faculty, and community members email a question to, or chat interactively with, our professional library staff. C.Y.T. Thompson and Love Library have wireless networking and laptop computers available for check out. Computer labs are located in Love and C.Y.T. Thompson libraries, providing access to library resources, the World Wide Web, word processing, electronic mail, and other resources.

History

When the University of Nebraska was established in 1869, the Charter included a provision for an annual appropriation for books for a general library.

In 1941, construction began on a new library building made possible by a gift from Don L. Love, former Lincoln mayor and businessman. Love Library opened in 1945 and all the volumes held in storage and many of the departmental collections were consolidated with the main collection in the new building.

Throughout the 1950s and 1960s, library collections continued to grow rapidly and the practice of shifting materials to storage areas again became expedient. In 1975 the Love North addition opened. The 2,000,000th volume, a Shakespeare first folio, was added in 1991. The collection now exceeds 2,800,000 volumes.

Courses

Library 110 is intended for incoming first-year students as part of the Comprehensive Education Program.

Grading

Pass/No Pass

A grade of pass will be awarded upon successful completion of the course. A grade of no pass will be given to those who do not successfully complete the course. The N (no pass) grade does not contribute to the student's GPA.

Grading Appeals

A student who feels that he/she has been unfairly graded may take the following sequential steps:

1. Talk with the instructor concerned. Most problems are resolved at this point.
2. Talk to the instructor's department chair.
Courses of Instruction (LIBR)

110. Introduction to Library Research (1 cr) A seven-week independent learning course.
Practical understanding of libraries, their organization, tools, and services. Effective strategies for accessing information and performing library-based research.

110A. Introduction to Agriculture, and Natural Resource Systems (AGRI, NRES 103) (1 cr)
For course description, see AGRI 103.
Programs on the UNL Campus
Administered by Omaha Units

COLLEGE OF PUBLIC AFFAIRS AND COMMUNITY SERVICE
University of Nebraska at Omaha
Administered by Omaha Units
B. J. Reed, Ph.D., Dean

About the College

The College of Public Affairs and Community Service (CPACS) on the Lincoln campus offers all undergraduate course work required for the bachelor of science degree in criminal justice. Students may pursue the bachelor of science degree in social work as pre-social work majors on the Lincoln campus but must complete the professional social work program (junior and senior years) on the Omaha campus. The College of Public Affairs and Community Service also offers course work leading to a certificate or minor in gerontology.

Careers

Criminal Justice. The School of Criminology and Criminal Justice provides its students with the foundation for entering many diversified criminal justice related careers including the courts, law, corrections and law enforcement. The school curriculum is composed of a broad range of ideas and interests including courses in organization and administration, statistics, research methods, law enforcement, corrections, criminology, courts, juvenile delinquency, and law, as well as various special topics. Through the internship program, students can obtain work experience within various criminal justice agencies.

Gerontology. The career objective of the majority of those persons specializing in gerontology is to enter into or to continue in a profession where services are provided to the aged. Most graduates of the gerontology department either are direct service providers or plan and administer programs in which others provide services to the elderly.

Social Work. Social work prepares students for professional careers in human services effecting social change and improving human conditions. Social workers are employed in social welfare agencies, alcohol and drug dependency programs, nursing homes, health/mental health agencies, programs for the developmentally disabled and marriage and family counseling services. Social work courses investigate social policy, health care and human service systems, mental health, human development and functioning, ethnic issues, and provide students with the practice skills for working with diverse clientele. Students receive extensive work experience through practicum courses in their senior year. The BSSW is a solid foundation for pursuit of a higher level of professional competence through graduate social work education. The undergraduate degree qualifies a graduate as a Certified Social Worker (CSW) in the State of Nebraska. Other states with licensure and certification of social workers would also recognize this degree for such licensure or certification.

Academic Advisement

Students are responsible for knowing and completing all requirements of their chosen degree program. Please refer to "Students Responsibilities in Academic Advising" on page 11 of this bulletin.

The aim and purpose of academic advising is to assist students in career planning, meeting the requirements of the degree program and in interpreting College policy regarding academic requirements.

Students should see an adviser whenever questions arise concerning their academic programs. Students are encouraged to seek advisement with their assigned academic adviser at least two times per year, particularly, when registering for the senior year.

Dean’s List

Students enrolled in the College of Public Affairs and Community Service who maintain a grade point average of 3.5 or better while carrying 12 hours or more will earn the distinction of being placed on the Dean’s Honor List at the end of each semester.
Admission to the College

Students who have been admitted to the University may apply for entrance to the College of Public Affairs and Community Service during initial registration by indicating their preference in the appropriate place on the University Application for Admission form.

Students who wish to transfer into the College from one of the School's or Colleges within the University must request permission from the Dean's Office and the department or school offering the student's intended major. A minimum cumulative grade point average (GPA) of 2.5 is required to transfer into the College.

Requirements for the Bachelor of Science Degree

Total Hours. Each candidate must present a total of at least 125 semester hours of college credit to meet graduation requirements.

Quality of Work. Each candidate for the degree must attain a cumulative grade point average of at least 2.0. A minimum grade of at least C - must be earned in all required courses within the major, unless a higher grade is designated by the department/school. All grades reported by the faculty to the registrar become a part of the student's permanent record and are included in the computation of the grade point average, even though some of these grades may be for work done in excess of the 125 hours required for graduation.

Transfer of Courses. The transfer of D grades in nonmajor courses are accepted only from within the University of Nebraska system. Students from other institutions must present a grade of C or above for all course work.

Residence. Thirty of the last 36 hours required for the degree must be registered for and carried within the University system.

Major Field. Each student must present a major including 15 or more credit hours of upper division work designated as appropriate by the faculty of the department in which enrolled. Individual departments/schools should be consulted for the minimum number of upper division hours required.

Acceptability of credits. The student should refer all questions concerning the acceptability of credits earned in programs such as Cooperative Education and C credit by Examination to the department in which enrolled. C credit earned in courses below the 100 level may not be applied toward the degree offered by the College of Public Affairs and Community Service.

General Education. Each student must satisfy the University of Omaha general education core requirements.

Prerequisite Courses. Completion of a course within the major with a grade below a C - will not be considered as having fulfilled prerequisite requirements for additional courses taken in the major field of study. A higher grade may be designated by the department/school.

College Academic Policies

Choice of Catalog Policy

A student registering in the College of Public Affairs and Community Service for the first time may, except for limitations described below, complete work for the degree according to the requirements of 1) the catalog in effect at the time the student enters CPACS or 2) the catalog current at the time the student applies for the degree.

Students entering the College for the first time in the summer will be subject to the catalog for the academic year immediately following.

Students formerly in a CPACS program who drop out of the College for one year must complete requirements of the catalog current at the time of readmission.

Failure to complete the requirements for the degree within seven years after the date the student first enters the College will subject the student to graduation under the requirements of a later catalog to be approved by the Dean.

The College reserves the right to institute and make effective, after due notice, new ruling which may be necessary for the general good of the College and to substitute courses currently offered for those no longer offered.

Grade Appeals Procedure

Students who wish to appeal a grade which they feel was capriciously or prejudicially given shall first discuss the matter with the instructor within 30 days of the final course grade being posted. If the matter is not resolved, the student must meet with the department/school chairperson. If a satisfactory agreement cannot be reached, the student must appeal, in writing, to the department/school curriculum committee. If a satisfactory agreement cannot be reached, the student may submit a written appeal to the Office of the Dean within 20 working days of the exhaustion of the departmental procedures.

The Committee on Academic Standards and Curriculum for the College of Public Affairs and Community Service is the official body for handling the appeal.

In the event that the instructor is unavailable for handling a grade complaint, the student will meet with the Department Chair/ School Director and the Dean to determine the most appropriate course of action agreeable to all parties.

Copies of the CPACS Procedures for Student Grades and Suspension Appeals are available from the Chair of the Committee on Academic Standards and Curriculum for the College and the Office of the Dean.

Degree Audit and Application for Degree

During the second semester of their junior year, or after completing approximately 89 hours students should apply for an audit of their academic records to be sure that all requirements will be met before the anticipated date of graduation. Criminal justice majors may request the audit at the CPACS Office, 310 Nebraska Hall.

Criminal justice majors must also file an application for graduation at the CPACS Office either just prior to or early in the semester they intend to graduate. Failure to meet the published deadline may delay graduation until the next semester.

Degree Programs and Areas of Study

Criminology and Criminal Justice

Director: Dr. John Crank
Associate Director for the Lincoln Program: Dr. Colleen Kadleck
Coordinator Adviser: Karen Fulton, 310 Nebraska Hall, 472-3677
Faculty: Anderson, Batton, Brennan, Crank, G., DeLone, M., Eskridge, H., Offman, Hughes, Jacobs, Kadleck, C., Madhavi, M. S., Ogle, Sample, Simi, Wakefield, Zhao

Although the bachelor of science in criminal justice degree can be earned in its entirety on the Lincoln campus, the degree is granted by the University of Nebraska at Omaha. School policies and requirements applicable to students seeking the BSC are the same on both campuses.

Freshmen Declaring Criminal Justice. The first 45 hours of course work toward the bachelor of science in criminal justice is defined as the pre-criminal justice curriculum. Entering freshmen who declare criminal justice as their major must complete all of the 45 hour pre-criminal justice curriculum with an overall grade point average of 2.5 and no grades of D in their criminal justice courses. These courses must include:

CRIM 101 (3 hrs)
CRIM 251 (3 hrs)
CRIM 203, 211 or 221 (6-9 hrs)
ENGL 101, 150, 151, 254, 256 (6 hrs)
MATH 101 (3 hrs)

Students are encouraged to fulfill the remaining 21-24 hours with course work from their general distribution requirements.

Students seeking entrance into the upper division criminal justice program must apply to the School of Criminology and Criminal Justice. Students may apply with fewer than 45 hours if they are enrolled for the remaining hours during the semester in which they make application. In such cases students may be granted admission contingent upon completion of the hours with a cumulative grade point average of 2.5 and no grades of D in their criminal justice courses.

Degree Audit and Application for Degree

During the second semester of their junior year, or after completing approximately 89 hours students should apply for an audit of their academic records to be sure that all requirements will be met before the anticipated date of graduation. Criminal justice majors may request the audit at the CPACS Office, 310 Nebraska Hall.

Criminal justice majors must also file an application for graduation at the CPACS Office either just prior to or early in the semester they intend to graduate. Failure to meet the published deadline may delay graduation until the next semester.
Transfer Students Declaring Criminal Justice. Students wishing to transfer from another institution or department within the University of Nebraska at either the Omaha or Lincoln campus must have a 2.5 cumulative grade point average to declare pre-criminal justice. Transfer students must complete the pre-criminal justice curriculum stipulated above and apply for admission to the School of Criminology and Criminal Justice before being admitted to the upper division criminal justice program. Students wishing to transfer are encouraged to contact the school for more details on the transfer policy.

The policies set out above are intended to apply to all students who wish to transfer to the upper division criminal justice program. For good cause shown, the school has the discretion to make exceptions to the admission policy.

Application forms may be obtained at the School of Criminology and Criminal Justice office. Application deadline for fall admission: last working day of July; spring admission: last working day of October; summer admission: last working day of May.

School Restrictions

- The BSCJ degree requires the completion of 125 semester hours of credit. A minimum of 30 of the last 36 credit hours must be earned by the student in residence in the College of Public Affairs and Community Service, at either the Omaha or Lincoln campus. Summer reading courses are not considered in residence.
- At least 21 hours of criminal justice must be taken at the University of Nebraska at either the Omaha or Lincoln campus.
- A minimum of 45 credit hours must be earned in upper division (300/400 level) courses. At least 21 of these upper division hours must be taken in the School of Criminology and Criminal Justice.
- A maximum of 25 credit hours from nontraditional or nonclassroom courses (correspondence, independent study, Internet mediated) may be applied toward the BSCJ degree.
- A maximum of 12 credit hours of departmental independent study or internship courses may be applied toward the BSCJ degree. Of these, no more than 6 hours from one department and no more than 6 hours from another institution.
- A maximum of 45 credit hours in criminal justice and 30 credit hours from any other department may be applied toward the BSCJ degree.
- A maximum of 24 credit hours may be taken Pass/No Pass. Of these, 39 hours required for the criminal justice major may be taken Pass/No Pass (excluding CRIM 397 Internship).
- Credit for basic military training or law enforcement training is not applicable to the BSCJ degree.

Specific Course Requirements-Bachelor of Science-Criminal Justice Degree

A. English Composition (9 hours). This requirement is normally filled by taking courses from the following group: ENGL 101, 150, 151, 254, 258, or 354. At least 3 credit hours must be in courses 200 level or higher. Acceptable alternatives must be approved by the student's adviser.

B. Social Science (12 hours). Courses will be selected from the departments of economics, gerontology, history, political science, public administration, psychology, educational psychology (451, 463), sociology, social work, anthropology, nonphysical geography and selected courses in child, youth and family studies (list of approved CYAF courses available at the School of Criminology and Criminal Justice). No more than 6 hours from one department may be used to meet this requirement.

C. Natural Sciences and Mathematics (12 hours). Students are required to complete one college algebra course (MAT 101). MAT 107, MAT 109, and MAT 110 will not apply to the degree. Additional hours are to be selected from astronomy, biology, botany, chemistry, computer science, entomology, geology, math, meteorology, NUTR 131, physical geography, physics, or zoology. Each student must complete one laboratory course from one of these listed disciplines. N atural science credit in geography is limited to the following courses designated as physical geography: GEOG 150 or 155, or permission.

D. Humanities (12 hours). Art and art history, classics, communication, English literature, foreign languages, journalism, music, philosophy, religion, theatre. No more than 8 hours may be taken in one department. Each student must complete one 3-hour course in oral communication to be selected from COM M 109, 209, 212, or 311.

E. Statistics (3 hours). Each student must complete one 3-hour course in basic statistics. Only one of the following courses may apply to the degree. (CRIM 300 or EDPS 459 is recommended, however, ECOM 215, STAT 218 or SO CI 206 may also fulfill the requirement.)

NOTE: CRIM 300 will not apply toward the 39 hours of required criminal justice courses.

Criminal Justice Requirements (39 semester hours). All candidates for the BSCJ degree must complete CRIM 101 Survey of Criminal Justice, CRIM 211 The Criminal Court System, CRIM 221 Survey of Corrections (6 cr), and a minimum of 9 credit hours of upper level (300/400) criminal justice courses (excluding CRIM 300). Application for graduation as a Criminal Justice Major requires 36 semester hours in criminal justice courses.

Area of Concentration (18 hours). Students will select an area of concentration with their advisor. At least 12 hours must be completed in upper division courses (300/400 level).

Elective Requirements (20 semester hours). Students may select electives after consultation with their advisor. Elective courses may include a maximum of 6 hours nonrequired criminal justice courses.

Cultural Diversity. Each student must complete 6 hours of course work dealing with cultural diversity. A minimum of 3 hours must include U S racial or Hispanic minority groups to be selected from CRIM 338; TEAC/ETHN 330; ET HN 330; ET HN 330; ET HN 330; ET HN 330; ET HN 356, 357, or 358; POLS/ETHN 238; PSY C/ETHN 310 or 425; SO CI/ETHN 218, 218 or 481. The remaining 3 hours can be satisfied with a 3-hour course in minority studies, women's studies, or course work with an international or foreign focus. These courses may be applied toward the appropriate group requirement.

Requirements for the Minor in Criminal Justice

The requirements to earn a minor in criminal justice will consist of a minimum of 18 credit hours to include CRIM 101 Survey of Criminal Justice (3 cr), a minimum of two of the three CRIM 203 Police and Society, CRIM 211 The Criminal Court System, CRIM 221 Survey of Corrections (6 cr), and a minimum of 9 credit hours of upper level (300/400) criminal justice courses (excluding CRIM 300). Application for graduation as a Criminal Justice Minor requires 12 semester hours in criminal justice courses.

Criminal Justice Courses (CRIM)

101. Survey of Criminal Justice (3 cr) The justice process and the criminal justice system in general. Concepts of crime, deviance and justice; and general theories of crime causality. Individual rights in a democratic society and the legal definitions of various crimes. Law enforcement, judicial, juvenile justice and corrections subsystems explored and a number of reform proposals presented.

203. Police and Society (3 cr) Prereq: CRIM 101. The role of the police in American society. Origins of policing, the nature of police organizations and police work, and patterns of relations between the police and the public.

211. The Criminal Court System (3 cr) Prereq: CRIM 101. Analysis of the structure and operation of the criminal court system in the United States, including the roles of prosecutor, defender, judge, judge and court administrator. Issues confronting the system considered from historical, philosophical, sociological, and psychological perspectives. Ideals of the system compared with actual functioning and court reform proposals.


251. Research Methods (3 cr) Prereq: CRIM 101 or permission. CRIM 251 and SO CI 205 cannot both be applied toward the degree.

Introductory to the principles, methods and techniques of empirical social research.
370 Programs on the UNL Campus Administered by Omaha Units

Gerontology

Chair: Dr. Karl Kosloski, 554-2272
Lincoln Campus Dr. Julie Masters, 472-0754
Faculty: H Alyell, K Kelly, K kercher, Kosloski, M asters, T horson

Undergraduates may earn a certificate in gerontology by completing 15 hours of specified course work plus a one-semester practicum. Although an undergraduate major in gerontology is not offered, the certificate program may be used as a minor or concentration within several degree programs earned through other University departments.

Courses that meet the gerontology requirement are taught by gerontology department faculty as well as related faculty in other University of Nebraska-Lincoln and University of Nebraska-Omaha departments. Students should consult the Department of Gerontology for the appropriate selection of courses.

Application materials for admission to the Gerontology Certificate Program can be obtained either from the Department office, 310 Nebraska Hall (472-0754); Annex 24 on the Omaha campus (554-2272).

Specific Requirements-Certificate in Gerontology

Course Work. All undergraduates who wish to earn the certificate in gerontology must complete a minimum of 15 semester hours of gerontology courses, with a core of strongly recommended courses, including Introduction to the Psychology of Adult Development and Aging (GERO 446), and Programs and Services for the Elderly (GERO 467). The remaining course work will be agreed upon between the student and his or her gerontology adviser in an individually designed program of study.

Practicum. A one-semester field placement is also required. Students in most cases will earn 3 hours of academic credit for this practicum by registering for GERO 494 (Practicum). It may be possible to coordinate this experience with field placement required for other departments (e.g., social work or human development and the family), but in all cases such arrangements must have the prior approval of the gerontology departmental practicum coordinator.

Minor in Gerontology

A minor in gerontology consists of 18 credit hours. Nine core courses are required with the remaining 9 hours to be selected by the student with advance approval of the academic adviser for the department.

The core courses required for the minor will include the following:

GERO 200 Intro to Gerontology
GERO 446 Psychology of Adult Development & Aging
GERO 467 Programs & Services for the Elderly
GERO 470 Issues in Aging (while not required, will be strongly encouraged for those seeking a career in health care)

Students may also select a course offered in another department that has at least 75% of its focus on the aging experience. The course may be counted toward a minor in gerontology. A practicum will not be required of students.
pursuing a minor. The student must earn an overall average of "C" (2.0) in courses for the minor.

Administration of the Program. The University of Nebraska Department of Gerontology administers the certificate in gerontology program for all campuses of the University of Nebraska. Undergraduate students may declare as pre-professional social work majors and transfer to the University of Nebraska Omaha to complete the professional program.

Students, including freshmen and transfer students, may declare as pre-professional social work majors at any point in their academic program. Transfer students must have a cumulative grade point average of 2.5.

Admission to the Professional Social Work Program. Application should be made for admission to the professional BSSW program during the second semester of the sophomore year or when the student has earned a total of 60 hours prior to beginning the professional program. Students must also complete SOCW 1000 and SOCW 1500 as well as all prerequisites prior to starting the professional program. All students accepted into the professional program must register for SOCW 3010, 3110, and 3320 in their first fall semester after admission. Minimum GPA for application is 2.5. Admission will be competitive, based on a combination of criteria including: 1) GPA, 2) references, 3) personal statement, and 4) evidence of successful work experience, volunteer experience, or other work or volunteer experience. Students may not enroll in SOCW 3010 or 3110 or 3320 without having been granted admission. The following core prerequisites must also be completed prior to starting the professional program: ECON 211, POLS 100, PSYC 181, SOC 101, and BION 101/101L. Applications must be completed by February 1st of the spring semester for the following fall admission. Admission packets may be obtained from an academic advisor or the admissions secretary of the School of Social Work.

The bachelor of science degree in social work requires the completion of 125 semester hours of credit in several prescribed areas (e.g., human biology, statistics) with a minimum GPA of 2.0 (C). Of these 50-53 semester hours are specific social work courses. Requirements relative to the degree in social work are explained in detail in the School of Social Work's Student Handbook. It is strongly recommended that students seek academic advisement for selecting specific courses to meet the requirements for candidacy for the baccalaureate degree in social work.

Specific Course Requirements-Bachelor of Science-Social Work Degree

Core Requirements

A. English Composition and Speech (9 hours), 6 hours may be selected from ENG 101, 101A, 101B, 101D, 150, 151 or 254. Students must also complete a 3-hour course in speech communication selected from CMM 109, 209, 212, or 311.

B. Social Sciences (22 hours). The social sciences hours are selected from the following disciplines:

Psychology (7 hours) PSYC 181. Introduction to Psychology (4 cr) Choice one of the following:

A. English Composition and Speech (9 hours), 6 hours may be selected from ENG 101, 101A, 101B, 101D, 150, 151 or 254. Students must also complete a 3-hour course in speech communication selected from CMM 109, 209, 212, or 311.

B. Social Sciences (22 hours). The social sciences hours are selected from the following disciplines:

Psychology (7 hours) PSYC 181. Introduction to Psychology (4 cr) Choice one of the following:

C. Social Sciences (22 hours). The social sciences hours are selected from the following disciplines:

Psychology (7 hours) PSYC 181. Introduction to Psychology (4 cr) Choice one of the following:

C. Social Sciences (22 hours). The social sciences hours are selected from the following disciplines:

Psychology (7 hours) PSYC 181. Introduction to Psychology (4 cr) Choice one of the following:

C. Social Sciences (22 hours). The social sciences hours are selected from the following disciplines:

Psychology (7 hours) PSYC 181. Introduction to Psychology (4 cr) Choice one of the following:

C. Social Sciences (22 hours). The social sciences hours are selected from the following disciplines:

Psychology (7 hours) PSYC 181. Introduction to Psychology (4 cr) Choice one of the following:
Programs on the UNL Campus Administered by Omaha Units: Degree Programs and Areas of Study

PSYC 289. Developmental Psychology
PSYC 380. Abnormal Psychology (prequisite)

Social Work (53 hours)

A student must complete SOC W 100 and SOC W 150 with a grade of "B" or better prior to beginning the professional program.

SOC W 100. Social Work & Social Welfare (3 cr)
SOC W 150. Social Work & Civic Engagement (3 cr)

The following courses require admission to the Professional Social Work Program.
A student must have a grade of C or higher in required social work courses (other than practicum) for that course to be acceptable toward satisfaction of prerequisites and fulfillment of the degree. A grade of "B" or better is required in practicum courses.

SOC W 301. Human Behavior & the Social Environment I (3 cr)
SOC W 302. Human Behavior & the Social Environment II (3 cr)
SOC W 311. Policy I: Analysis of Social Welfare Policy (3 cr)
SOC W 332. Social Work Practice I (3 cr)
SOC W 335. Social Work Practice II (3 cr)
SOC W 389. Writing for Social Work (3 cr)
SOC W 412. Institutional Oppression (3 cr)
SOC W 436. Social Work Practice III (3 cr)
SOC W 440. Research Methods in Social Work (3 cr)
SOC W 401, 402, 403 or 404. M inority Content (3 cr)
SOC W 441. General Social Work Practice I (5 cr)
SOC W 442. General Social Work Practice II (5 cr)
SOC W 445. Senior Seminar (1 cr)
SOC W Elective (3 cr)
SOC W or CPACS Elective (upper division) (3 cr)

Electives (18 hours)

NOTE: 15 hours may be taken on a Pass/No Pass basis, not more than 6 of which can be in the core requirements and none in the required social work area (limit of 2 courses taken Pass/No Pass per semester).

Courses of Instruction (SOC W)

100. Social Work and Social Welfare (3 cr)
Designed for the student who wants to learn about social welfare and to explore a possible major in social work. Examines historical and current issues in social welfare, social services, and the social work profession. Focuses on values, beliefs, and goals that underpin social work and provides an historical perspective for present activities.

150. Social Work and Civic Engagement (3 cr)
Prereq: SOC W 100. Sophomores may parallel with SOC W 100. Designed to acquaint the student with the social work profession, professional roles and functions, and social services delivery systems. As volunteers, students will have an opportunity to observe and participate in social services activities within Nebraska and Iowa communities incorporated with didactic experiences. Students will also have an opportunity to explore their vocational aptitude for social work practice via interactive encounters with clients and helping professionals.

300. Applied Statistics and Data Processing in Public Sector (Public Administration/Criminal Justice/300) (3 cr)
Prereq: UN MATH 131, U N MATH 101 recommended. Basic statistics, public sector research, and public administration decision making. Emphasis on the exploration of data processing and techniques as they relate to statistical analysis and on understanding the proper application of statistics.

311. Human Behavior and the Social Environment I (3 cr)
Prereq: SOC W 100. BUS 101, PSY 101, SOC W 100 or 101 and admission to BS W program. 0 Pass/No Pass semester only. First part of a two-semester sequence. Basic knowledge of major contributions of the biological, social, and behavioral sciences to the understanding of human functioning in a social work context, i.e., the person-environment interaction. Within a social work framework, emphasizes theories of development/personal integrity as it relates to the individual and small group/community. Includes issues related to cultural, class, racial, ethnic and gender variations.

332. Human Behavior and the Social Environment II (3 cr)
Prereq: SOC W 311, BUS 101, PSY 101, SOC W 100 or 101 and admission to BSW program. 0 Pass/No Pass semester only. The second portion of a two-semester sequence. Provides the student with a basic knowledge of the contributions of various social sciences to the understanding of human functioning in transaction, i.e., person-in-environment, with larger societal structures. Emphasizes the characteristics, dynamics, and structure of families and other small groups, communities, and organizations. In accord with the social systems approach, this course addresses diverse ethnic, racial, and gender variations on individuals and groups within western society.

310. Policy Analysis of Social Welfare Policy (3 cr)
Prereq: Admission to the BSW program. 0 Pass/No Pass semester only.
Examines social policy development; the historical aspects of value assumptions, social-political-economic context and processes and skills required for analysis.

332. Social Work Practice I (3 cr)
Prereq: SOC W 150, admission to the BSW Program, and concurrent with SOC W 301 and 332. First of a three-semester sequence focusing on the values, knowledge and skills general to social work practice; the problem-solving model is studied as a general approach to social work practice. Students will be helped to integrate knowledge with practice skills through laboratory experiences; the importance of values as a guide for social work practice will be stressed.

333. Social Work Practice II (3 cr)
Prereq: SOC W 301 and 332; and concurrent with SOC W 302 and 311. 0 Pass/No Pass semester only.
Second of a three-semester sequence providing an overview of three basic theories of social work practice with individuals, families and small groups. Emphasis on assessment of social situations leading to a choice of interventions appropriate to working with individuals, small groups or families.

389. Writing for Social Work (3 cr)
Prereq: Junior standing or ENGL 150 and 151. Introduction to various forms of professional writing such as process recordings, narrative writing, business communications, grant proposals and research reports.

401. Social Work Practice with American Indians (3 cr)
Prereq: Admission to the BSW Program. For social work students, the course meets the minor or social work requirement. Broad study of origins, influences and issues of the American Indian which affect social work practice. Usefulness of established social work generic methods is explored. Alternative methods applicable to culturally diverse people are presented. Experiential learning is emphasized.

402. Social Work with the African American Family (3 cr)
Prereq: Admission to the BSW Program. For social work students, the course meets the minor or social work requirement. Introduction to various forms of professional writing such as process recordings, narrative writing, business communications, grant proposals and research reports.

403. Social Work Practice with Hispanics (3 cr)
Prereq: Admission to the BSW Program. For social work students, the course meets the minor or social work requirement. Intended to develop in students awareness, familiarity and understanding of some of the social conditions and cultural traits of Hispanic community with special emphasis on Mexican American community. It will be the foundation for the adaptation of the social worker's practice to meet the needs of the African American community.

404. Social Work Practice with Multiethnic Groups (3 cr)
Prereq: Junior standing or ENGL 150 and 151. Introduction to various forms of professional writing such as process recordings, narrative writing, business communications, grant proposals and research reports.

404. Working with Minority Elderly (GERO 469) (3 cr)
Prereq: Junior standing, GERO 301 or SOC W major. Interdisciplinary course designed to provide the student with knowledge of the differing status, attitudes, and experiences of the four major minority groups and to examine various service systems and models in terms of their relevance and effectiveness in meeting needs of minority elderly.

412. Institutional Oppression (3 cr)
Prereq: SOC W 311, ENGL 211; POLS 100; SOC W 311; and admission to BSW program. 0 Pass/No Pass semester only.
Examines the problems and issues of institutional racism and sexism as it relates to social injustice. Focuses on the causes of institutional racism and sexism and its effects on individuals, groups, and institutions. Concentrates on the analysis of related institutional barriers and constraints affecting racial minorities and women. Emphasis directed at increasing the awareness and appreciation of the issues and problems of institutional racism and sexism and the advancement of strategies to eliminate the problems. Consideration given to the role of social work practice for the removal of institutional barriers for racial minorities and women. 

D. Humanities (12 hours).
D. Humanities (12 hours).

Choose one of the following:
ECON 210. Intro to Economics (5 hrs)
ECON 211. Principles of Economics

Political Science (3 hours).

Choose one of the following:
POL S 100. American Government
POL S 108. Intro to Political Ideas
POL S 232. Public Issues in America
POL S 234. Government Regulation
POL S 325. Legislative Process
POL S 331. Urban Politics and Policies

History (3 hours).

HIST 202. American History After 1877

Natural Sciences and Mathematics

The natural sciences and mathematics hours must include the following courses:
BIO S 101 and 101L; MATH 101 and one of the following statistics courses: CR IMM 300; SOC W 3000 (at UNO), EDPS 459, SOC W 206, EC ON 215, or STAT 218.

Other approved English courses.

AHIS 101. Intro to Art History & Criticism I
AHIS 102. Intro to Art History & Criticism II
AHIS 251. Art in the United States

Other approved Art History courses.

AHIS 101. Intro to Art History & Criticism I
AHIS 102. Intro to Art History & Criticism II
AHIS 251. Art in the United States

Other approved Art History courses.

Other approved Art History courses.

Other approved Art History courses.

Other approved Art History courses.
436. Social Work Practice III (3 cr) Prereq: Senior standing, SOC W 335; and concurrent with SOC W 412 or permission of the School. 0 first fall semester only.

440. Research Methods in Social Work (3 cr) Prereq: Admission to the professional social work program, junior standing, and statistics.

444. Hospice and Other Services for the Dying Patient (3 cr) Prereq: Senior graduate in social work or permission of School. 0 first fall semester only.

465. Social Work in Mental Health and Mental Retardation (3 cr) Prereq: SOC W 412; and SOC W 436 prior to or concurrently, and permission of the School.

468. Spirituality and Social Work Practice (3 cr) Prereq: BSW students who have completed SOC W 302 and 335, or permission of the School.

481. Spirituality and Social Work Practice (3 cr) Prereq: BSW students who have completed SOC W 302 and 335, or permission of the School.

485. Hospice and Other Services for the Dying Patient (3 cr) Prereq: Senior graduate in social work or permission of School. 0 first fall semester only.


497H. Senior Honors Project/Thesis (3-6 cr) Prereq: Senior in Honors Program. The senior honors project must be approved by the College of Social Work.

1. College of Nursing

NOTE: Because of the competitive admissions process to the College of Nursing, it is strongly recommended that students interested in nursing contact the Student Services Advisor on one of the four campuses for current information and advising.

The following information is an overview of the College of Nursing. More detailed information is available from the Student Services Advisor on one of the four campuses of the College of Nursing.

University of Nebraska Medical Center

The College of Nursing, Lincoln Campus offers a wide variety of career opportunities for men and women. Career choices range from highly technical positions in research or intensive care to “high touch” specialties such as hospice care or the newborn nursery. Graduates of the College of Nursing are prepared to assume staff nurse level positions in areas such as public health, gerontology, pediatrics, industrial settings, emergency room, psychiatric and mental health facilities, and acute care agencies.

Admission Requirements for the Bachelor of Science in Nursing

Applications for admission to the College of Nursing are welcome from women and men who are interested in preparing for a career in nursing. Preference for admission may be given to Nebraska residents. Consideration is given to the quality of academic work, the completion of one of the last two years of high school, and the number of college credits earned in courses that will be transferred to the College of Nursing.

International applicants must present scores on either the Test of English as a Foreign Language (TOEFL) or the Test of Spoken English (TSE). Applicants whose language of nurture is not English must present current (within the last two years) scores from instruments that measure listening, structure, reading, writing and oral communication competency in the English language.

Clinical Facilities-Lincoln Campus. The College of Nursing, Lincoln Campus utilizes a variety of health agencies throughout the Lincoln area for clinical learning and experiential learning. Cooperating community agencies include: Bryan LGH Medical Center (East and West), Lincoln-Lancaster County Health Department, Lincoln Regional Mental Health Center, Madonna Center, Nebraska Medical Center, and The Veterans Administration Hospital. All students complete a rural health experience.

Graduate Program. The University of Nebraska Medical Center College of Nursing offers graduate programs leading to master of science and doctor of philosophy in the fields of nursing. The master of science program offers several nurse practitioner options, clinical nurse specialist options, and a master of science in nursing with an emphasis on groups, organizations, and communities.
**Application Procedure**

Students may apply for admission to the College of Nursing with their non-nursing required courses in progress. The starting dates for the program are late August and mid-January each year. Application deadlines for the traditional program are November 1 for fall semester of the following year and July 1 for spring semester of the following year.

Students with a minimum cumulative college grade point average of 2.0 (C) or better may apply for admission. Since the College of Nursing cannot admit more students than it has resources to accommodate, admission is competitive based on college cumulative GPA, letters of recommendation, personal interview, narrative, and courses completed; therefore it is in the best interest of the student to complete as many of the non-nursing courses with the best GPA as possible. An average GPA for admission has been 3.0 or above for all campuses. Average GPA for admission on the Lincoln campus is typically higher.

A course grade below C in any of the non-nursing courses is not acceptable to the UNMC College of Nursing.

Applicants may obtain information through the Student Services Advisers of the College of Nursing (O maha Division 402/559-5102, Lincoln Division 402/472-7343, West Nebraska 308/630-1359, Kearney Division 308/234-8322).

A nonrefundable application fee must accompany each initial application to the University of Nebraska system. Application fees are not applied toward tuition and fee charges. Payment is made by check or money order, payable to the University of Nebraska-Medical Center.

Application fees are high school teachers, college faculty, and employers. Persons selected to submit references should not be family members of the applicant.

**Following acceptance, and prior to enrollment, the student must provide:** (a) medical health forms, (b) immunization information, and (c) verification of CPR for Health Professionals certification. A drug screen and background check will also be required for final acceptance. Acceptance is not final until these requirements are met and evaluated in terms of rules for clinical placement and potential licensure. Students are required to have current immunizations and CPR certification throughout the program. All students with 7 or more credit hours are required to carry health insurance.

**Nursing Major**

The nursing major includes one semester of sophomore level nursing course work, two semesters of junior nursing course work and two semesters of senior level course work for a total of five semesters. This is significant when considering financial aid available for spring admission. Due to requirements for community and rural nursing clinical experiences, access to an auto or the ability to stay over night out of town may be necessary. Students are responsible for their own expenses.

**Transfer Credit**

Credit earned from an accredited college is acceptable to the University of Nebraska. Grades from other than a University of Nebraska campus must be at least 2.0 (C) if the course is to be accepted for transfer credit by the College of Nursing. The College of Nursing reserves the right to evaluate all credit hours submitted on an application. Transfer credits are recorded with no grade or quality points assigned.

Applicants from other than University of Nebraska campuses will receive credit in the program based on the transferable college credits they present which are equivalent to the College of Nursing program requirements. It is emphasized that even though courses and credits may transfer, the College of Nursing is the final authority on how these courses and credits apply toward a degree in nursing.

Credit earned more than five years prior to application for admission will be evaluated. Applicants may be required to repeat selected courses, or validate knowledge through challenge examinations.

**Tuition**

The University of Nebraska-Lincoln tuition charges apply for all nonnursing course work. Resident tuition for nursing courses is estimated at $200.00 per credit hour for the 2006-2007 academic year. In addition, clinical nursing courses have laboratory fees.

**Financial Aid**

Following admission to the College of Nursing, all financial aid for nursing students is disbursed through the University of Nebraska Medical Center. Application materials are obtained from that office.
Level 1: (Sophomore) Hours
NUR 262 Professional Nursing Practice (3.5)1 ..................................... 2
NUR 265 Professional Nursing Practice (2.5)1 ..................................... 2
NUR 280 Foundations of Nursing (2.5)1 ........................................ 4
NUR 386 Evidence-Based Nursing Practice and Research .................. 2

NOTES: All required nursing courses must be completed prior to starting Level 2.

Level 2: (Junior) Hours
NUR 300 Family-Centered Nursing Care of Adults (4)2 ......................... 5
NUR 325 Pathophysiological Basis of Alterations in Health .................. 4
NMD 470 Pharmacology & Drug Therapy in Nursing .......................... 2

Level 3: (Senior) Hours
NUR 340 Family-Centered Maternity Nursing (3)2 ............................ 5
NUR 350 Family-Centered Nursing Care of Children (3)2 ..................... 5
NUR 425 Concepts, Issues, & Nursing Care Related to Chronic Health Conditions (2) ........................................ 4

Level 4: (Senior) Hours
NUR 410 Family-Centered Psychiatric Mental Health Nursing (2)4 ............. 4
NUR 420 Community Health Nursing (2)3 .................................... 5
NUR 460 Gerontological Nursing (2)4 ........................................ 4

Level 5: (Senior) Hours
NUR 435 Health Policy Issues .......................................................... 2
NUR 450 Family-Centered Nursing Care of Clients with Acute Complex Problems (2) ............................................ 5
NUR 470 Nuring Management Strategies (2)1 .................................. 3
NUR 480 Transition to Professional Nursing ................................. (0-4) ........ 4

Grand Total 66

Courses of Instruction (NURS)

Credit allowance for nursing courses is based on a semester, each class hour earns 1 credit hour. Clinical/laboratory hours are computed on a basis of 50 minutes per credit hour for each 3-hour clinical/laboratory period.

NUR 262. Professional Nursing (2 cr) Prereq: Admission to the nursing major.
Begin the student's development as a professional nurse. Cultivates students as co-participants engaging in a variety of learning interactions. Traditional and evolving roles of the professional nurse will be explored with an emphasis on societal forces. Philosophy and conceptual framework of the College of Nursing at UNMC will be examined and the relationship among the concepts will be explored. Content promotes acquisition of the professional role through the development and enhancement of life-long learning skills.

NUR 266. Health Assessment and Promotion (4 cr) Prereq or concurrent: NUR 262 and NUR 280.
Holistic approach to lifespan assessment of the well individual. Through the processes of knowing, relating, and developing the student will attain a better understanding of self and others. Examines health beliefs, identity factors, impacting the adoption of healthy life-style, and developing a health promotion plan for self and others. Students use knowledge from prerequisite and concurrent courses as they obtain health histories and perform physical examinations on selected clients. Identify expected findings, identify the presence of alterations, and explore health promotion behaviors. Further skills to be developed include interview, review, developing a narrative; formulating a health history; developing assessment skills in the physical, psychosocial, developmental, cultural, spiritual, and environmental area. Completed assessments will be used in the framework of the nursing process. The role of the nurse as a competent, caring professional will be applied to health assessment and health promotion.

NUR 280. Essentials of Nursing Care (4 cr) Prereq or concurrent: NUR 262 and NUR 266.
Theory and practice focusing on essential psychomotor and therapeutic interpersonal skills for professional nursing. Opportunity to develop problem-solving skills in laboratory and clinical settings with adult clients.

NUR 320. Family-Centered Nursing Care of Adults (1 cr) Prereq: Level I standing courses. Prereq or parallel: NU NEM 270 and NUR 325. Permutation.
Focuses on the family centered approach to care of adult clients within the context of their families. Core knowledge from prerequisite and parallel courses will underlie content. Emphasis placed on the students' understanding of the family-centered approach to care, to promote the health care of adult clients. Care of health care settings will be utilized to maximize student experiences. Through the processes of knowing, relating, and developing the student will attain a better understanding of self and adult clients and their families.

NUR 325. Pathophysiological Basis of Alterations in Health (4 cr) Prereq: Anatomy and Physiology. Permutation. Focus on the family-centered approach to promote and protect the health care of adult clients. Care of health care settings will be utilized to maximize student experiences. Through the processes of knowing, relating, and developing the student will attain a better understanding of self and adult clients and their families.

NUR 340. Family-Centered Maternity Nursing (5 cr) Prereq: Level I and II standing courses.
Focus on the care of the at-risk high risk childbearing family across antepartum, intrapartum, and postpartum periods. Emphasis will be placed in a family-centered approach to promote and to restore health in the family. Students will explore the family's ability to care for the at-risk and high risk fetus. Concepts of wellness, developing, relating, and knowing are integrated into the nursing care. Current trends and issues related to family centered care will be explored. Ambulatory, inpatient, and home management of various levels of wellness will be implemented in a variety of clinical settings.

NUR 350. Family-Centered Nursing Care of Children (5 cr) Prereq: Level I and II standing courses.
Focus on the application of problem-solving approaches to promote, protect, and restore the health of children from infancy through adolescence within the context of the family. The concepts of growth, developing, relating and knowing are emphasized. Current trends and issues related to family centered care will be explored. Ambulatory, inpatient, and home management of various levels of wellness will be provided in ambulatory, inpatient, and community settings.

NUR 386. Evidence-Based Nursing Practice and Research (2 cr) Prereq: Statistics, Permission.
Introduction to the literature that is evidence-based nursing practice and research. Practice skills related to identifying and appraising best evidence to support nursing practice will be developed. Emphasis is placed on reading and critiquing research that is related to implementation and integration of best evidence in practice.

Focuses on nursing care which emphasizes the process of relating to promote, protect, and restore the mental health of individuals and groups. Explores the human experience of mentally ill clients as they interact with environmental forces. Includes their families and health care providers. Current trends and issues related to psychiatric mental health nursing will be explored. Variety of settings will be used to provide learning experiences.

A community-focused approach to nursing practice focuses on introductory concepts of public health, community assessment, health program development, care management for individuals and families, and analysis of health risks for populations. Health promotion, protection, and restoration interventions for clients across the lifespan are emphasized in clinical practice. Content is strongly related to the process of knowing, relating, and developing and is expanded to include aggregates and multidisciplinary in this community-focused experience. Influence of cultural diversity, economics, politics, environment, and ethics as they impact community health nursing practice. Nursing care priorities for the community, opportunities to practice comprehensive, independent nursing care roles and function in unstructured, diverse health care environments are provided.

NUR 440. Concepts, Issues, and Nursing Care Related to Chronic Health Conditions (4 cr) Prereq: Level I and Level II.
Focus on the developmental tasks and biopsychosocial coping of persons and families experiencing chronic health conditions across the life span. Instructional strategy of problem based learning will be utilized to assist students to examine major problem areas and issues related to chronic illness, students use their decision making skills to plan promotive, protective and restorative care for selected clients in the context of chronic illness and related to the patient. Cultural, ethical, legal, and economic issues related to chronicity will be explored. Emphasis will be placed on collaboration and coordination to provide continuity of care in a variety of environments.

NUR 435. Health Policy and Issues (2 cr) Prereq: Level I, Level II, Level III, and Level IV standing courses. Prereq. Emphasis on professional role development in relation to environmental, social, political, and economic factors which influence health care policy. Selected topics are examined to help students analyze issues, compare and contrast multiple views on issues, and formulate appropriate responses to health care policy.

NUR 480. Transition to Professional Nursing (4 cr) Prereq: Admission to the College of Nursing and permission of the instructor. Designed to meet needs and interests of individuals and/or groups of students for nursing theory and/or practice not offered in other courses. Self-directed learning requires independent motivation and direction as students use their own unique learning abilities to accomplish their selected goals.

NUR 599. Honors Independent Study (3-4 cr) Prereq: NU N 599 and faculty permission. Designates an independent study that has demonstrated a commitment to scholarship; intellectual curiosity and academic excellence. Focuses on giving the undergraduate student experience, participating as a member of a research team or to collaborate with a faculty member to design a research project.

NUR 444. Senior Clinical Nursing Externship (3-6 cr) Prereq: Level III courses (enrollment limited, application required).
Provides expanded client care experiences in a faculty supervised practice setting. Focus on improving student planning, organizing, and psychomotor skill development. Provides an opportunity to develop and practice skills in laboratory and clinical settings with adult clients. Expands student's knowledge and experiences in a variety of acute and chronic health care environments, and ethics as they impact community health nursing. Students will use their decision making skills to plan promotive, protective and restorative care for selected cases. Cultural, ethical, legal, and economic issues related to chronicity will be explored. Emphasis will be placed on collaboration and coordination to provide continuity of care in a variety of environments.

NUR 450. Family-Centered Nursing Care of Clients with Acute Complex Problems (5 cr) Prereq: Level I, Level II, and Level III standing courses.
Focuses on nursing care of clients and their families who are experiencing acute alterations in health. Emphasis on restoration, protection, and promotion of health in high acuity situations. Students will develop the decision making skills of clients they have cared for during acute health alterations. Problem based approaches will be utilized in the planning, organization, and implementation of care. Focus on the processes of knowing, relating, and developing, the student will gain an understanding of the human health experience as it related to the acuity.

Synthesizes scientific, conceptual and nursing content while focusing on the unique biopsychosocial factors related to the aging client. Demographic, environmental, ethical, and cultural issues related to aging are explored. Emphasis placed on the student's ability to apply complex clinical judgement and skills in promoting, protecting, and restoring older adults highest functional capacity. Clinical experiences are provided in diverse environments.

Mangement of human, financial, and material resources to promote an environment facilitating delivery of health care. Skill in influencing, coordinating, facilitating, and building teams, selected management strategies, and development of personal effectiveness, accountability, and responsibility for maintaining standards of quality client care are emphasized.

NUR 480. Transition to Professional Nursing (4 cr) Prereq: Level I, Level II, Level III, and Level IV standing courses and NUR 450, NUR 460 and NUR 470.
Clinical practicum which provides each student an opportunity to assume the role of a beginning professional nurse in concert with a registered nurse preceptor in a health care setting selected by the student in collaboration with faculty. Integrate previously acquired knowledge and experience to develop self-reliance, build expertise, and...
# Essential Studies and Integrative Studies

## List of Courses

### Essential Studies Program List

The chart on the following pages lists all courses that can be taken to fulfill the Essential Studies requirement, indicating which courses also fulfill the Integrative Studies (IS) requirement, and which colleges accept a given course for ES credit. The college abbreviations are:

- **A** = Agricultural Sciences and Natural Resources
- **R** = Architecture
- **S** = Arts and Science
- **B** = Business
- **E** = Engineering
- **P** = Fine and Performing Arts
- **H** = Human Resources and Family Sciences
- **J** = Journalism and Mass Communications
- **T** = All Teachers programs other than Elementary Education
- **L** = Elementary Education

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- AECN 388 Ethics in Agriculture & Natural Resources (AECN 388)
- ALEC 189H University Honors Seminar
- ALEC 388 Ethics in Agriculture & Natural Resources (AECN 388)
- ALEC 410 Environmental Leadership (NRES 413)
- ALEC 414 Classic Figures in Leadership
- CLAS 141 Spectacle & Entertainment
- CLAS 180 Classical Mythology
- CLAS 182 Alpha Learning Community Freshman Seminar
- CLAS 183 Heroes, Harlots & Helots
- CLAS 189H University Honors Seminar
- CLAS 281 The World of Classical Greece (ENGL 240A)
- CLAS 282 The World of Classical Rome (ENGL 240B)
- CLAS 283 Epic Tales: The World's Heroes & Gods
- CLAS 286 Literature of the Ancient Near East
- CLAS 305 Ancient Greek Religions (RELG 305)
- CLAS 307 Early Christianity (HIST, RELG 307)
- CLAS 310 Pagans & Christians in the Roman Empire
- CLAS 381 Ancient Novel (ENGL 381)
- CLAS 409 Religion of Late Western Antiquity (HIST, RELG 409)
- CLAS 483 Classical Drama (ENGL 440)
- COMM 205 Performance of Literature
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### Integrative Studies Program List

The following chart lists all courses that fulfill the Integrative Studies requirement, indicating those courses that also fulfill Essential Studies requirements and in which Areas (A-H).

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<td>Spanish-American Short Story (LAMS 462)</td>
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<td>SPAN 497</td>
<td>Seminar in Spanish</td>
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<td>SPED 302</td>
<td>Assessment Techniques for Diverse Learners</td>
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<td>SPED 303</td>
<td>Behavior Management</td>
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<td>SPED 304</td>
<td>Instructional Methods for Students with Diverse Needs</td>
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<td>SPED 401A</td>
<td>Accommodating Exceptional Learners in the Elementary School Classroom</td>
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<td>SPED 401B</td>
<td>Accommodating Exceptional Learners in the Secondary School Classroom</td>
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<td>SPED 407</td>
<td>Teaching Students with Disabilities in the Secondary Schools</td>
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<td>SPED 434</td>
<td>Intro to Special Vocational Needs</td>
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<td>STAT 218</td>
<td>Intro to Statistics</td>
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<td>TEAC 246</td>
<td>Modern Industries</td>
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<tr>
<td>TEAC 307</td>
<td>Teaching Social Studies in the Elementary School</td>
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<tr>
<td>TEAC 311</td>
<td>Teaching Reading in Elementary School</td>
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<td>TEAC 313</td>
<td>Teaching Language Arts in Elementary School</td>
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<td>TEAC 315</td>
<td>Teaching Science in the Elementary School</td>
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<td>TEAC 330</td>
<td>Multicultural Education (ETHN 330)</td>
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<td>TEAC 331</td>
<td>Cultural Foundations of American Education</td>
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<td>TEAC 351</td>
<td>The Learner Centered Classroom</td>
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<td>TEAC 416</td>
<td>Inclusive Early Childhood Methods</td>
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<td>TEAC 424</td>
<td>Foundations of Career &amp; Technical Education</td>
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<td>TEAC 430</td>
<td>Intro to Philosophy of Education</td>
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<td>TEAC 434</td>
<td>Ethics &amp; Education</td>
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<td>TEAC 437</td>
<td>Democracy &amp; Education</td>
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<tr>
<td>TEAC 450</td>
<td>American Cultural Perspectives through Popular Music &amp; Guitar (M UED, M UN M 450)</td>
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<td>TEAC 451N</td>
<td>Learning &amp; Teaching Principles &amp; Practices Secondary Language Arts</td>
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<td>TEAC 451P</td>
<td>Learning &amp; Teaching Principles &amp; Practices Secondary Mathematics</td>
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<td>TEAC 451R</td>
<td>Learning &amp; Teaching Principles &amp; Practices Secondary Modern Languages</td>
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<td>TEAC 451V</td>
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<td>Learning &amp; Teaching Principles &amp; Practices Secondary Social Science</td>
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<td>Curriculum Principles &amp; Practices Secondary Language Arts</td>
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<td>Curriculum Principles &amp; Practices Secondary Mathematics</td>
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<td>Curriculum Principles &amp; Practices Secondary Social Science</td>
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<td>THEA 112G</td>
<td>Intro to Theatre</td>
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<td>THEA 112H</td>
<td>Honors Intro to Theatre</td>
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<td>THEA 234</td>
<td>Scripts in Performance</td>
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<td>THEA 335</td>
<td>History of Theatre I</td>
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<td>THEA 336</td>
<td>History of Theatre II</td>
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<td>THEA 427</td>
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<td>THEA 428</td>
<td>American Theatre II</td>
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<td>THEA 440</td>
<td>Continental Drama</td>
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<td>THEA 472</td>
<td>Theatre Perspectives</td>
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<td>THEA 480</td>
<td>Technological Innovations in Film Production</td>
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<td>TXCD 123</td>
<td>Clothing &amp; Human Behavior</td>
<td>C H</td>
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<td>TXCD 314</td>
<td>Visual Merchandising</td>
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<td>TXCD 325</td>
<td>Woven &amp; Non-Woven Textile Design</td>
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<td>TXCD 407</td>
<td>History of Costume</td>
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<td>TXCD 408</td>
<td>History of Textiles</td>
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<td>TXCD 410</td>
<td>Socio-psychological Aspects of Clothing</td>
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<td>TXCD 413</td>
<td>Merchandising III: Merchandise Development &amp; Sourcing</td>
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<td>UHON 395H</td>
<td>University Honors Seminar</td>
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<td>VBMS 403</td>
<td>Integrated Principles &amp; Prevention of Livestock Diseases</td>
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<td>VBMS 410</td>
<td>General Pharmacology &amp; Toxicology</td>
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<td>WATS 281</td>
<td>Intro to Water Science (GEOG, NRES 281)</td>
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<td>WATS 354</td>
<td>Soil Conservation &amp; Watershed Management (M SY M, SOIL 354)</td>
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<td>WATS 459</td>
<td>Limnology (BIOS, NRES 459)</td>
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<td>WATS 498B</td>
<td>Senior Project II</td>
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<td>WMNS 101</td>
<td>Intro to Women's Studies</td>
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<tr>
<td>WMNS 189H</td>
<td>University Honors Seminar</td>
<td>C F H</td>
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<td>WMNS 201</td>
<td>Intro to Lesbian, Gay, Bisexual, Transgender Studies</td>
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<td>WMNS 210</td>
<td>Activism &amp; Feminist Communities</td>
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<td>WMNS 218</td>
<td>Philosophy of Feminism (PHIL 218)</td>
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<td>WMNS 242</td>
<td>Native American Women (HIST, ETHN 242)</td>
<td>E H</td>
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<td>WMNS 281</td>
<td>Challenges to the State (POLIS 281)</td>
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<td>WMNS 385</td>
<td>Women &amp; Gender in Science</td>
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<td>WMNS 402</td>
<td>Sexuality in Nineteenth &amp; Twentieth Century America (HIST 402)</td>
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<td>WMNS 436</td>
<td>Saints, Witches &amp; M ogadomens (HIST 436)</td>
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<td>Women &amp; Gender in the United States (HIST 441)</td>
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<td>WMNS 448</td>
<td>History of Women and Gender in the American West (HIST 448)</td>
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<td>WMNS 456</td>
<td>Black &amp;/or African-American Women's History (ETHN, HIST 456)</td>
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Faculty

Note: (1) Dates following names represent the year the staff member was appointed to the University of Nebraska-Lincoln faculty; (2) one asterisk (*) represents Extension faculty; (3) two asterisks (**) represent College of Engineering faculty based on the Omaha campus.

College of Agricultural Sciences and Natural Resources

Agricultural Economics

Aiken, J. David - 1975; Professor; Agricultural Economics; Water Law Specialist; BA 1972 Hastings; JD 1975 George Washington University

Azzam, Azzeddine M. - 1987; Professor; Agricultural Economics; BS 1977, MS 1980 Wisconsin; PhD 1984 Nebraska (Lincoln)

Conley, Dennis - 1988; Professor; Agricultural Economics; BS 1969, MS 1979, PhD 1973 Iowa State

Fulginiti, Lilyan - 1996; Professor; Agricultural Economics; BS 1978 Universidad Nacional del Nordeste (Argentina); MA 1980 Pennsylvania; PhD 1987 North Carolina State

Giannakas, Konstantinos - 1999; Associate Professor; Agricultural Economics; BSc 1994 Aristotle (Thessaloniki); MSc 1996 Mediterranean Agricultural Institute (Chania); PhD 2002 Saskatchewan

Hanson, Ronald - 1974; Professor; Agricultural Economics; BS 1968 Western Illinois; M S 1970, PhD 1972 Illinois

Johnson, Bruce - 1975; Professor; Agricultural Economics; BS 1966, M S 1968 Nebraska (Lincoln); PhD 1975 Michigan State

Lyons, Gary D. - 1995; Professor; Agricultural Economics; BS 1966, M S 1969 North Dakota State; PhD 1974 Oregon (Eugene)

Mark, Darrell R. - 2002; Assistant Professor; Agricultural Economics; BS 1997 South Dakota State; M S 1998, PhD 2001 Kansas State

Perrin, Richard K. - 1993; Professor; Agricultural Economics; BS 1960, PhD 1968 Iowa State

Peterson, E. Wesley F. - 1990; Professor; Agricultural Economics; BA 1967 California (Berkeley); MA 1973 Princeton; M A 1980, PhD 1981 Michigan State

Royer, Jeffrey - 1990; Professor; Agricultural Economics; BS 1973, MS 1977, PhD 1978 Iowa State

Schoengold, Karina - 2005; Assistant Professor; Agricultural Economics; BS 1998 Wisconsin (Madison); M S 2001, PhD 2005 California (Berkeley)

Supalia, Raymond J. - 1976; Professor; Agricultural Economics; BS 1968 Minor; MS 1972 Michigan State

Yiannaka, Amalia - 2002; Assistant Professor; Agricultural Economics; BSc 1994 Aristotle (Thessaloniki); MSc 1996 Mediterranean Agricultural Institute (Chania); PhD 2002 Saskatchewan

Agricultural Leadership, Education and Communication

Barbuto, John E. (Jay) - 1997; Associate Professor; Agricultural Leadership, Education and Communication; BSBA 1990 Minor; MA 1995 Bentley; PhD 1997 Rhode Island

Barrett, Leverne A. - 1980; Professor; Agricultural Leadership, Education and Communication; BS 1962, MS 1974, EdD 1979 Pennsylvania

Bell, Lloyd C. - 1979; Associate Professor; Agricultural Leadership, Education and Communication; BS 1971, M S 1980, PhD 1984 Nebraska (Lincoln)

Blezek, Allen G. - 1976; Professor; Agricultural Leadership, Education and Communication; BS 1966, MS 1969, PhD 1973 Nebraska (Lincoln)

Ellis, Jason D. - 2006; Assistant Professor; Agricultural Leadership, Education and Communication; BS 1996 Kansas State; PhD 2003, MS 2004 Iowa State

Etting, Arlen W. - 1997; Professor; Agricultural Leadership, Education and Communication; BS 1967, MS 1969 Kansas State; EdD 1975 Massachusetts

Fairchild, Patricia J. - 2000; Associate Professor; Agricultural Leadership, Education and Communication; BS 1969 Nebraska (Lincoln); MS 1973 Nebraska (Omaha); EdD 1991 Boston

Fritz, Susan M. - 1994; Professor; Agricultural Leadership, Education and Communication; BS 1979, MS 1980, PhD 1993 Nebraska (Lincoln)

Husmann, Dann E. - 2000; Professor; Agricultural Leadership, Education and Communication; BS 1982 Nebraska (Lincoln); MS 1986 Kansas State; PhD 1991 Nebraska (Lincoln)

King, James - 1985; Associate Professor; Agricultural Leadership, Education and Communication; BS 1967, MS 1974, EdD 1981 Indiana

Matkin, Gina - 2005; Assistant Professor; Agricultural Leadership, Education and Communication; BS 1982 Southeast Missouri State; MA 1991 Iowa State; PhD 2003 Nebraska (Lincoln)

Moody, Linda - 1994; Senior Lecturer; Agricultural Leadership, Education and Communication; BS 1988, MS 1993, PhD 2001 Nebraska (Lincoln)

Randall, James K. - 1971; Professor; Agricultural Leadership, Education and Communication; BS 1964, MS 1969 Utah State

Wheeler, Daniel W. - 1982; Professor; Agricultural Leadership, Education and Communication; BS 1962, MS 1964, PhD 1971 SUNY (Buffalo)

Agronomy

Arkebauer, Timothy J. - 1989; Professor; Agronomy; BS 1979 Michigan State; M S 1981 Florida; PhD 1986 Nebraska (Lincoln)

Baenziger, P. Stephen - 1988; Professor; Agronomy; BS 1972 Harvard; MS 1974, PhD 1975 Purdue

Casman, Kenneth G. - 1996; Professor; Agronomy; BS 1973 California (San Diego); PhD 1979 Hawaii

Drijber, Rhae A. - 1994; Associate Professor; Agronomy; BS 1982, MS 1986 British Columbia; PhD 1993 Alberta
College of Architecture

Allama, Tom - 2006; Aassitant Professor, Interior Design; BSD, M Arch N ebraska (Lincoln)

Ankerson, Katherine - 1996; A Associate Professor, Interior Design; Registered Architect; BS 1978, BA 1979, M S 1994 Washington State

Bahr, Lindsey Ellsworth - 2005; A Assistant Professor, Interior Design; BSD, M Arch N ebraska (Lincoln)

Borner, William L. - 1972; Professor, Architecture; Registered Architect; BA rich 1967 Western Reserve; M Arch 1968 M ichigan

Cantarero, Rodrigo F. - 1989; A Associate Professor, Community and Regional Planning; Reviews, M S 1979, M A (Econ) 1980 Iowa (Iowa City); PhD 1988 SC

Casas, F. Duncan - 1991; A Assistant Professor, Interior Design; AB 1968, PhD 1975 Princeton

Day, Jeff - 2001; A Assistant Professor, Architecture; BA 1988 Harvard; M Arch 1995 California (Berkeley)

Despang, Martin - 2005; A Assistant Professor, Architecture; Dipl. Ing. Architekt 1994 Hannover (Germany)

Drummel, Robert, W. - 2000; Professor, Architecture; Dean, College of Architecture; Registered Architect; FAIA; BA 1968 Abilene; M Arch 1969 University of Texas at Austin

Duncan, Robert J. - 1976; Professor and Director U N O Program, Architecture; BS Arch 1966 Kansas; M Arch 1968 Stanford

Ertz, Ted A. - 1974; A Associate Professor, Architecture; Registered Architect; BA Arch 1969, M Arch 1975 Colorado Architectural

Ford, Christopher - 2005; A Assistant Professor, Architecture; BA 1995 N orth Carolina (Charlotte); M Arch 1998 N orth Carolina State

Gabb, Betsy S. - 1986; A Professor and Program Director, Interior Design; BS 1970 N orth Dakota; M Arch 1972 M innesota (M inneapolis); ED. D. Arch. N orth Dakota; M Arch 1972

Handa, Kumiko - 1996; A Assistant Professor, Architecture; Registered Architect (Japan); BA Arch 1979 Tokyo; M Arch 1983, M S Arch 1985, PhD 1992 Pennsylvania

Hinchman, Mark A. - 1996; A Associate Professor, Architecture and Interior Design; Registered Architect; BA Arch 1983 Notre Dame; M Arch 1987 Cornell; M A 1989 Chicago

Hoistad, Mark A. - 1989; A Assistant Professor, Architecture; Associate Dean and Program Director; Registered Architect; BS in Architecture 1977 Georgia Institute of Technology; M Arch 1983, M S Arch 1985, PhD 1992 Pennsylvania

Hulvershorn, J. Kip - 1973; A Associate Professor, Community and Regional Planning; AICP; BS 1965, M S 1966 Indiana (Indiana); PhD 1976 M cGill

Jung, Hyun Tae - 2006; A Assistant Professor, Architecture; BS, M S, M Phil in Architecture, Seoul (South Korea)

Krug, Nathan S. - 1991; A Associate Professor, Architecture; Registered Architect; BS 1973 Montana; M Arch 1976 University of California

Kuska, Sharon S. - 1986; A Professor, Architecture; Professional Engineer; BSA 1982, M S 1984, M Arch 1993 Nebraska (Lincoln)

Lagging, Thomas S. - 1967; A Professor, Architecture; Registered Architect; BA Arch 1963 Nebraska (Lincoln); M Arch 1966 Harvard

Morgado, Patricia - 2002; A Associate Professor, Architecture; Bachelor de Architecure 1984, T Istituto Politecnico di Architettura; PhD 1997 University of Palermo (Palermo, Italy)

Mutunayagam, N. Brito - 1981; A Professor, Community and Regional Planning and Architecture; BS 1963 Kerala (India); DT 1967 School of Planning and Architecture (New Delhi, India); M Eng 1974, A IIT (Bangkok, Thailand); M Arch 1981

Parker, James S. - 1981; A Assistant Professor, Architecture; Registered Architect; BS Arch Eng 1964 California Polytechnic State; M Arch 1973 SU (Buffalo); M Arch 1982 Penn State

Rice, Camilla - 2006; A Assistant Professor, Landscape Architecture; Registered Architect; BA Arch 1998 Oregon (Oregon); M Arch 1999 Architecture 1995 Harvard

Scholz, Gordon P. - 1975; Professor, Community and Regional Planning and Architecture; Registered Architect; AICP; BA Arch 1968 N ebraska (Lincoln); M Arch & M U 1971 Illinois (Urbana); M A 1974 N ebraska (Omaha)

College of Arts and Sciences

Anthropology and Geography

Amedeo, Douglas M. - 1972; Professor, Anthropology and Geography; BS 1962 W isconsin; M A 1965; PhD 1967 Iowa

Anthanassopoulos, Effie - 1994; A Associate Professor, Anthropology and Geography; BS 1977 California (California); PhD 1993 California

Archer, J. Clark - 1985; Professor, Anthropology and Geography; BA 1964, M A 1968 Indiana; PhD 1974 Iowa

Awakuni-Sweetland, Mark - 1999; A Assistant Professor, Anthropology and Geography and Native American Studies; BS 1994, M A 1996 N ebraska (Lincoln)

Bled, Peter A. - 1972; Professor, Anthropology and Geography; BS 1968 Trenton; M S 1968 R eensaker Polytechnic; M A 1973, PhD 2003 Michigan State

Bredon, Lou - 1998; A Professor, Anthropology and Geography; BA 1964 Harvard; M A 1965, PhD 1972 Harvard

Hames, Raymond - 1980; Professor, Anthropology and Geography; BA 1971, PhD 1978 California (California)

Johnson, John T. - 2005; A Assistant Professor, Anthropology and Geography; BS 1987, M S 1991 Kansas; PhD 2003 Hawaii (Manoa)

Lavin, Stephen J. - 1981; Professor, Anthropology and Geography; BS 1986 N umber 1 (Buffalo); M S 1970 Montana State; PhD 1979 K ansas

McCollough, Martha - 1996; A Associate Professor, Anthropology and Geography and Native American Studies; BS 1982, M A 1988 Alaska; PhD 1996 Oklahoma

Sanchez, Carleen D. - 2004; A Associate Professor, Anthropology and Geography and Ethnic Studies; BA 1989 California (Fullerton); M A 1996; PhD 2003 California (Santa Barbara)

Wandnider, LuAnn - 1991; A Associate Professor, Anthropology and Geography; BA 1977 Oklahoma (Oklahoma); M S 1981, N ew M exico; PhD 1973 N ew M exico

Willis, Mary S. - 2000; A Assistant Professor, Anthropology and Geography; BS 1983 San Diego; M S 1990, PhD 1995 Washington

Wishart, David J. - 1974; Professor and Chair, Anthropology and Geography; BA 1967 Sheffield; M A 1968, PhD 1971 Nebraska (Lincoln)

Biochemistry

Bailey, Cheryl R. - 2006; A Assistant Professor, Biochemistry; BA 1990, PhD 1999 Iowa

Banerjee, Ruma V. - 1991; A George Holmes Distinguished University Professor, Biochemistry; BS 1980 Delhi; M S 1982 Delhi; PhD 1987 R eensaker Polytechnic Institute (New York)

Barycki, Joseph J. - 2002; A Assistant Professor, Biochemistry; BS 1991 Rochester; PhD 1996 Delaware

Bassett, Charles J. - 2006; A Assistant Professor, Agronomy and Horticulture and Biochemistry; BS 1994, PhD 2000 Wisconsin
**Business Administration**

Buss, D'wee - 1975; Assistant Dean, College of Business Administration; Business Administration; BA 1975, MA 1991, PhD 2002, N ebraska (Lincoln)

O'Connor, Thomas J. - 1994; E. J. Faulkner W ing Lab Coordinator; Coordinator, College of Business Administration; BA 1980, Iowa; MA 1985 Iowa State; PhD 1994 Nebraska (Lincoln)

**Economics**

Allgood, Sam - 1996; Associate Professor, Economics; BA 1969, PhD 1993 Georgia

Anderson, John E. - 1991; Baird Family Professor and Interim Associate Dean, Economics; BA 1973 Western Michigan; MA 1976, PhD 1977 Claflin University

Austin, John - 2002; Senior Lecturer, Economics; BA 1962 Illinois, MA 1966 Wisconsin; PhD 1966 Nebraska (Lincoln)

Putters, Roger - 2005; Assistant Professor, Economics; BA 1994 Brigham Young; MA 2000, PhD 2003 California (Davis)

Cushing, Matthew J. - 1992; Associate Professor, Economics; BA 1976, PhD 1985 Virginia

Edwards, Richard - 2004; Professor, Economics; BA 1966 Grinnell; MA 1970, PhD 1972 Harvard

Fuess, Scott M. - 1996; Professor and Chair, Economics; BA 1982 Delaware; MA 1983, PhD 1986 Purdue

Hayden, F. Gregory - 1967; Professor, Economics; BA 1962 Kansas State; PhD 1988 Texas

Kim, Benjamin J. C. - 1983; Associate Professor, Economics; BA 1972 Seoul National; MA 1977 Saskatchewan; PhD 1983 UCLA

MacPhee, Craig R. - 1969; Paul C. Burmeister Professor, Economics; BS 1965 Idaho; MA 1968, PhD 1970 Michigan State

Mag, Ann Marie - 1987; Assistant Professor, Economics; BS 1980, MA 1983, PhD 1988 Colorado State

Mcevay, Mary G. - 1992; Associate Professor, Economics; BS 1976 Towson; PhD 1983 Virginia

Groen, John - 1987; Associate Professor, Economics; BS 1978, MA 1981 Virginia; PhD 1986 Florida

Thompson, Eric C. - 2004; Associate Professor, Economics; BA 1996 Chicago; MS 1999, PhD 2001 Wisconsin (Madison)

van den Berg, Hendrik - 1989; Associate Professor, Economics; BA 1971, MA 1972 SUNY Albany; MS 1987, PhD 1989 Wisconsin (Madison)

Weisbad, William - 1978; John T. and Mabel M. Hay Professor of Banking and Chair of Finance; College of Business Administration; BA 1977 Penn State; MS 1981, PhD 1988 Nebraska (Lincoln)

**Management**

Avolio, Bruce J. - 2001; Professor; Donald and Shirley Clifton Chair in Leadership; Management; BA 1975 State (Olemiss, New York); MA 1976, PhD 1981 Akron

Combs, Gwen M. - 2000; Assistant Professor; Management; BA 1974 Walla Walla; MA 1976 Washington; PhD 2000 Nebraska (Lincoln)

Dignan, Lester A. - 1977; Harold J. Lay College Professor; Management; Director, Graduate Programs; BM 1961, MS 1962, PhD 1970 Iowa

Jones, M. Colleen - 1996; Assistant Professor; Management; BA 1985 Oklahoma; MA 1993 Southern California; DBA 1992 George Washington

Lee, Sang M. - 1976; University Eminent Professor; Finance; BM 1983, MA 1984, PhD 1987 Pennsylvania State

Luthans, Fred - 1967; George Holmes University Professor, Management; BA 1961, MBA 1962, PhD 1965 Iowa

Mitchell, Marie - 2006; Assistant Professor; Management; BA 1995; MBA 1996; PhD 2000 Central Florida

Nackarid, Sucheta - 2000; Associate Professor; Management; BS 1987, MBA 1989 Bombay (India); PhD 2000 Kansas

Nah, Fiona - 1998; Associate Professor; Management; BS 1988, MSc 1992 National (Singapore); PhD 1997 British Columbia

Olson, David L. - 2001; James and H. K. Stuart Chancellor's Distinguished Professor of MIS; Management; BS 1966 South Dakota School of Mines; MA 1976 Kansas; PhD 1981 Nebraska (Lincoln)

Schniederjans, Marc J. - 1981; C. W. Heathon Baty Distinguished Professor; Management; BS 1972 M Iasiui (St. Louis); MBA 1974, PhD 1978 St. Louis

Sebora, Terrence C. - 1991; Associate Professor; Management; BS 1986, MBA 1987; St. John's University, MBA 1984 Wisconsin (Oshkosh)

Shau, Keng - 1996; Professor; Management; BS 1985, MSc 1985 Asian (Singapore); PhD 1996 British Columbia

Svenseth, Scott - 1987; Associate Professor; Management; BS 1980 Minnesota State; MBA 1981 Gonzaga; PhD 1986 Texas

Trimi, Silvana - 2001; Assistant Professor; Management; BS 1989 Tirana (Albania); MA 1996, PhD 2001 Nebraska (Lincoln)

Uk-Bien, Mary - 2006; Professor; Management; Howard and R. C. Foker Endowed Chair in Ethics and Leadership; BBA 1986; MBA 1988; PhD 1993

West, Brad - 2006; Assistant Professor; Management; BA 1998 Bowling Green State; MA 2001, PhD 2006 Michigan State

**Marketing**

Ball, A. Dwayne - 1986; Associate Professor; Marketing; BA 1973 Rice; MA 1979, PhD 1992 Ohio State

Bentley, James W. - 1980; Professor and Chair, Marketing; BS 1977 Ohio State; MBA 1980, PhD 1989 Arizona

Grosbrot, Sanford L. - 1972; W. W. Marshall Professor; MBA BSBA 1968; MA 1967; PhD 1972 Florida

Hampton, Ronald - 1984; Chair; CBA Agribusiness Program; Director and Associate Professor, Marketing; BSBA 1972, MA 1978 Central Michigan; PhD 1984 Arkansas

Kennedy, Patricia - 1989; Associate Professor; Marketing; BA 1979, MA 1980 Oregon; PhD 1990 Oregon

Saini, Amit - 2003; Assistant Professor; Marketing; BE 1993 Thapar Institute; PGD PC 1997 MICA; PhD 2003 Washington State

Sohi, Ram J. - 1991; Professor; Marketing; BS 1980, MA 1982 Bombay; MA 1986, PhD 1991 Wisconsin

**College of Education and Human Sciences**

Child, Young and Family Studies

Abbott, Douglas - 1983; Professor; Child, Youth and Family Studies; BS 1973 Oregon State; MA 1979 Brigham Young; PhD 1983 Georgia

Allen, John - 1995; Courtsey Faculty, Child, Youth and Family Studies; Associate Professor; Agricultural Economics; BS 1978, MA 1983; PhD 1989 Western State

Bischoff, Richard - 1998; Associate Professor, Child, Youth and Family Studies; BS 1982, MS 1991, PhD 1993 Purdue

Bosch, Kathy - 2001; Assistant Professor*, Child, Youth and Family Studies; BS 1985, MS 1991, PhD 2000 Kansas State

Churchill, Susan - 1998; Associate Professor, Child, Youth and Family Studies; BS 1991, MS 1993, PhD 1997 Georgia

Cramer, Sharan - 1970; Associate Professor, Child, Youth and Family Studies; BS 1963 South Dakota State; MS 1967 Iowa State; PhD 1980 Nebraska (Lincoln)

Dalla, Rochelle - 1996; Associate Professor, Child, Youth and Family Studies; BA 1991 Colorado; MS 1993, PhD 1996 Arizona

DeFrain, John - 1975; Professor*; Child, Youth and Family Studies; BS 1970, MA 1971 Nebraska (Lincoln); PhD 1975 Wisconsin

de Guzman, Maria - 2005; Assistant Professor, Child, Youth and Family Studies; BA 1995; PhD 2000 Manila (Philippines); M 1994, PhD 2001 Nebraska (Lincoln)

Edwards, Carolyn - 1997; Cather Professor; Child, Youth and Family Studies; BS 1969, EdD 1974 Harvard

Gabriel, Mary - 2000; Lecturer; Child, Youth and Family Studies; BS 1976 Nebraska (Lincoln); MS 1995 Loyola (Chicago)

Gonzalez-Kruger, Gloria - 1998; Lecturer, Child, Youth and Family Studies; BS 1985, MA 1990, PhD 1996 Michigan State

Hollett, Cody - 2005; Assistant Professor, Child, Youth and Family Studies; BS 1999 Brigham Young; M 2001 Nebraska (Lincoln); PhD 2004 Brigham Young

Huddleston-Casas, Cathie - 2001; Assistant Professor, Child, Youth and Family Studies; BS 1992, MS 1995 Illinois; PhD 2002 Minnesota (Twin Cities)

Johnson, Julie - 1980; Professor and Chair, Child, Youth and Family Studies; BS 1970, M 1972 North Dakota State; PhD 1984 Nebraska (Lincoln)

Jones-Branch, Julie - 2000; Lecturer; Child, Youth and Family Studies; BS 1994, MS 2000 Nebraska (Lincoln)

Kostelnik, Marjorie - 2000; Dean, College of Education and Human Sciences and Professor; Child, Youth and Family Studies; BS 1972 Pittsburgh; MS 1977, PhD 1978 Pennsylvania State
Leeper, Jennifer - 2004; Lecturer, Child, Youth and Family Studies; BS 2003 Nebraska (Lincoln)

Prochaska-Cue, Kathy - 1976; Associate Professor* and Extension Specialist, Child, Youth and Family Studies; BS 1969 Kansas State; M S 1972 Purdue; PhD 1988 Nebraska (Lincoln)

Raikes, Helen - 1990; Professor, Child, Youth and Family Studies; BS 1966 Iowa State; M S 1969 California (David); PhD 1980 Iowa State

Rasbery, Allison - 2007; Assistant Professor, Child, Youth and Family Studies; AS 1997 Pratt Community; BS 1999 Emporia State; M S 2002, PhD 2007 Kansas State

Rupiper, Michelle - 1994; Senior Lecturer, Child, Youth and Family Studies; BA 1984 N Oregon Iowa M A 1990 Nebraska (Omaha); PhD 2001 Nebraska (Lincoln)

Springer, Paul - 2007; Assistant Professor, Child, Youth and Family Studies; BS 2001 Brigham Young; M S 2003 Auburn; PhD 2007 Texas Tech

Torraco, Richard J. - 1994; Associate Professor, Educational Administration; BS 1978 Boston College; M Ed 1979 Mississippi

Ulring, Donald - 1979; Associate Professor, Educational Administration; BS 1962, M S 1970 Kearney; EdD 1972, JD 1979, PhD 1980 Nebraska (Lincoln)

Educational Psychology

Ansgorge, Charles J. - 1972; Professor, Educational Psychology; BS 1962 Valparaiso; MA 1967, PhD 1971 Iowa

Bovard, James - 2005; Assistant Professor, Educational Psychology; BA and BS 1997 Baker; MA 2000, PhD 2002 Kansas

Brumling, Roger H. - 1968; Hodder Professor, Educational Psychology; BA 1963, MA 1965, PhD 1968 Nebraska (Lincoln)

Buhler, Eric - 2002; Assistant Professor, Educational Psychology; BA 1985 Southern Illinois M Ed 1988, PhD 2002 Illinois

Carlton, Janet - 2006; Visiting Faculty, Educational Psychology; BS 1979, MA 1982 Fordham; PhD 1987 Union

Crevels, John - 1978; Professor, Educational Psychology; BA 1967 M Adkimson; MA 1971, PhD 1974 Iowa

Daly, Edward - 2002; Professor, Educational Psychology; BA 1965 Gannon (Pennsylvania); MA 1980, PhD 1992 Syracuse

Davidson, Megan - 2007; Assistant Professor, Educational Psychology; BS 1999 M aryland; M S 2001, PhD 2005 Illinois

De Ayala, Ralph - 1998; Professor and Chair, Educational Psychology; BA 1979 Connectic; PhD 1987 Texas

Doll, Beth - 2000; Professor, Educational Psychology; BA 1974 M ichigan State; M S 1976 Eastern M ichigan; PhD 1983 Kentucky

Evans, Sharon A. - 1988; Associate Professor, Educational Psychology; BS 1980 Scranton; MA 1982 Connectic; PhD 1988 Michigan State

Franco, Juan - 2006; Visiting Professor, Educational Psychology; BS 1970 Southern Miss; PhD 1975 N ew M exico State

Geisinger, Kurt - 2006; Director, Buros Institute; Professor, Educational Psychology; AB 1972 Davidson; MS 1972 Georgia; PhD 1977 Pennsylvania

Green, Denise - 2005; Assistant Professor, Educational Psychology; BS 1980 Scranton; MA 1982 Connectic; PhD 2002 Michigan State

Kiewra, Kenneth A. - 1988; Professor, Educational Psychology; BA 1977 State (Oneonta, New York); PhD 1982 Florida State

McCurdy, Merilee - 2001; Assistant Professor, Educational Psychology; BA 1995, M S 1998, PhD 2002 Michigan State

Moshman, David - 1977; Professor, Educational Psychology; BA 1971 Lehigh; MA 1975, PhD 1977 Rutgers

Newman, Ian M. - 1970; M icherney Professor, Educational Psychology; BS 1963, M S 1964 George W illiams; PhD 1968 Illinois

Scheel, Michael - 2000; Associate Professor, Educational Psychology; BS 1973 Nebraska (Lincoln); M Ed 1975 Idaho; PhD 1995 Nebraska (Lincoln)

Sheridan, Susan M. - 1973; Professor, Educational Psychology; BS 1962, M S 1964 Western Illinois; PhD 1989 Wisconsin (Madison)

Swearengin, Susan - 1997; Assistant Professor, Educational Psychology; BS 1987 Appalachian State; MA 1993, PhD 1997 Texas (Austin)

Weisinger, Ellen - 1986; Professor, Educational Psychology; Executive Associate Dean, Graduate Studies; BS 1980 Nebraska (Lincoln); M A 1982 Iowa; PhD 1985 Maryland

Yakushko, Olga - 2004; Assistant Professor, Educational Psychology; BA 1995 Belarus; M S 1998 Kentucky; PhD 2004 M aryland

Nutrition and Health Sciences

Albrecht, Julie - 1990; Associate Professor* and Extension Specialist, Nutrition and Health Sciences; BS 1972 M ichigan State; M 1979 Case Western Reserve; PhD 1982 Nebraska (Lincoln)

Barrington, Lisa - 1987; Professor* and Extension Specialist, Nutrition and Health Sciences; BS 1980 California Polytechnic State; M S 1980 Arizona

Carr, Timothy - 1996; Associate Professor, Nutrition and Health Sciences; BS 1985 Southern M ountai; MA 1987, PhD 1990 Purdue

Hamouz, Faye - 1990; Associate Professor, Nutrition and Health Sciences; BS 1968, M S 1982, PhD 1990 Nebraska (Lincoln)

Housh, Terry - 1986; Professor, Nutrition and Health Sciences; BS 1977 D oane; M Ed 1979, PhD 1984 Nebraska (Lincoln)

Jones, George - 2001; Assistant Professor*; Nutrition and Health Sciences; BS 1982 Tennessee (Knoxville); M S 1985 Nebraska (Lincoln); PhD 1996 Alabama A & M

Koszewski, Wanda - 1996; Extension Associate Professor*, Specialist, Nutrition and Health Sciences; BS 1984 Utah State; M S 1984 Nebraska (Lincoln); PhD 1998 Kansas State

Lee, Ji-Young - 2005; Assistant Professor, Nutrition and Health Sciences; BS 1991, MS 1993, PhD 2002 Y oong H ee (Korea); M S 1998, PhD 2002 Nebraska (Lincoln)

Lewis, Nancy - 1990; Professor, Nutrition and Health Sciences; BS 1968 New M exico State; M S 1973 Iowa State; PhD 1985 Nebraska (Lincoln)

McMeen, Joyce - 2006; Lecturer, Nutrition and Health Sciences; BS 1973 Nebraska (Lincoln); M Ed 2003 Nebraska (Lincoln)

Perry, Christina - 2002; Lecturer, Nutrition and Health Sciences; BS 1984 Oregon; M Ed 1993 New Mexico

Rudy, Jeffrey P. - 1998; Senior Lecturer, Nutrition and Health Sciences; BS 1987, M S 1992 Pittsburgh; PhD 1997 Kansas State

Scheur, John - 1970; Associate Professor, Nutrition and Health Sciences; BS 1968, M Ed 1969, PhD 1974 Nebraska (Lincoln)

Schmidt, Richard - 1971; Associate Professor, Nutrition and Health Sciences; BS 1969, M Ed 1971, PhD 1988 Nebraska (Lincoln)

Schneck, Marilyn - 1990; Chair and Professor, Nutrition and Health Sciences; BS 1987 Briar Cliff College; M S 1989, M Ed 1994 Nebraska (Lincoln)

Stanek Krogstrand, Kaye - 1973; Associate Professor, Nutrition and Health Sciences; BS 1971 Nebraska (Omaha); M S 1975, PhD 1986 Nebraska (Lincoln)

Young, Linda - 1995; Lecturer, Nutrition and Health Sciences; BS 1972, M S 1983 Nebraska (Lincoln)

Zempleni, Janos - 2001; Assistant Professor, Nutrition and Health Sciences; BS 1988, M S 1992, PhD 1993 Giessen (Germany)

Special Education and Communication Disorders

Bertenthal, John E. - 1984; Professor and Chair, Special Education and Communication Disorders; BA 1962 Wayne State; MA 1964 Kansas; PhD 1971 Wisconsin

Beukelman, David R. - 1985; Barkley Distinguished Professor, Special Education and Communication Disorders; BA 1971 Michigan State; M S 1989, PhD 1991 Wisconsin

Boney, Stephen J. - 1986; Senior Lecturer, Special Education and Communication Disorders; BA 1972 Western Michigan; M S 1981 Purdue; PhD 1987 Kent State

Carrell, Thomas - 1994; Assistant Professor, Special Education and Communication Disorders; BA 1976 California (Berkeley); PhD 1984 Indiana

Cress, Cynthia - 1995; Associate Professor, Special Education and Communication Disorders; BA 1982 Michigan; MS 1984 Manchester (England); MA 1990, PhD 1993 Wisconsin (Madison)
Fought, Robert – 1974; Professor, School of Music; Assoc. Dean, Music; Chief of College of Fine and Performing Arts; BS 1964 Pennsylvania State; M M 1965 N. Ohio Western: Ed D 1971 Penn State

Fueiblert, Ron – 2001; Assistant Professor (Secondary Choral Music Education), School of Music; BA 1981 University of Nebraska; MA 1985 N. Dakota

Fulcher, Craig – 1989; Senior Lecturer (Tuba and Euphonium), School of Music; BM 1978 Indiana

Haar, Paul – 2004; Assistant Professor (Saxophone), School of Music; BM 1994, M M 1996 Kansas; DMA 2004 Texas (Austin)

Hannah, Kevin – 2005; Assistant Professor (Voice), School of Music; BA 1989 Pennsylvania; MM 1999 Carnegie Mellon; MM 2002, DMA 2005 Arizona State University

Harrier-Smith, Donna – 1976; Professor (Voice), School of Music; BA 1965 Denison; MM 1968 Cincinnati Conservatory

Hibbard, Theres – 2005; Assistant Professor (Choral), School of Music; BA 1978 Longwood; M M 1980 C. Colorado State; DMA 1994 Oregon

Larson, Thomas – 1996; Lecturer (Jazz), School of Music; BM 1977 Berklee; MM 1984 Nebraska (Lincoln)

Lefferts, Peter – 1989; Professor (Music History), School of Music; BA 1973, MA 1978, PhD 1983 Columbia

Marks, Christopher – 2006; Assistant Professor (Organ), School of Music; MA 1982, M M 1985, and PhD 1995 Illinois (Urbana-Champaign); DMA 1999 Eastman

Mattingly, Alan – 2006; Associate Professor (Organ), School of Music; BM 1990 Alabama; MM 1992, DMA 1998 Florida State

McMullen, William – 1986; Professor (Oboe and M usic History), School of Music; BM 1974 Baldwin-Wallace Conservatory; MM 1980, DMA 1985 Juilliard

Moore, Brian – 1996; Associate Professor (Music Education), School of Music; BA 1977 N ew Hampshire; MM 1982, PhD 1986 Wisconsin

Narboni, Nicole – 1995; Senior Lecturer (Piano), School of Music; BM 1985 Austin; MM 1988, DMA 1992 Johns Hopkins

Neeley, David – 1983; Assistant Professor (Violin), School of Music; BM 1984 Iowa State; MA 1987 California Institute of Arts

Niezria, Glenn – 1979; Professor (Music Education), School of Music; BM 1972 W ashburn; MM 1977, D M 1979 Cincinnati

Oliva, Giacomo – 2001; Professor, School of Music; Dean, Hudson-Lied College of Fine and Performing Arts; BM 1971, MM 1976, PhD 1982 Champaign

Parker, Clark – 1996; Associate Professor (Viola), School of Music; BM 1983 Western Washington; MM 1985 Indiana; MA 1987 California Institute of the Arts

Richardson, John W. – 2003; Professor and Director, School of Music; BS 1977 William Jewell; M M 1980 Conservatory of Music; MA 1982 Kansas City; PhD 1990 Northwestern

Rometo, Albert – 1972; Vice President and Director (Percussion), School of Music; BS 1977, M M 1979, PhD 1982 Athens

Shumens, William – 1994; Associate Professor (Voice), School of Music; Director, Opera Program; BA 1982 Knox; MM 1989 Northwestern; DMA 1999 Illinois

Sirota, Jonah – 2005; Lecturer (Viola), School of Music; BM 1988 Rice; MM 2000, AD 2005 Iowa

Snyder, Randall – 1974; Professor (Music Theory/Composition), School of Music; BA 1966 Quincy; MM 1967, DMA 1975 Columbia

Starr, Pamela – 1987; Professor (Music History), School of Music; BA 1986 Harvard; MS 1987 Columbia; PhD 1987 Yale

Whites, Darryl – 1997; Associate Professor (Trumpet), School of Music; BM 1987 Youngstown State; MM 1991 Northwestern; DMA 2001 Colorado
Naval Science

Bryant, Jeffery W. - 2007; Assistant Marine Officer Instructor, Naval Science; SSgt, USMC

Grey, Mitchell B. - 2007; Assistant Professor, Naval Science; CAPT, USMC; BA 2003 Colorado

Hodges, John R. - 2005; Assistant Professor, Naval Science; LT, US Navy; BS 2001 North Carolina State

Litaker, Eric T. - 2006; Professor and Chair, Naval Science; Col., USMC; BS 1979 Oklahoma; MS 1989 Johns Hopkins; MS 1994 Naval Postgraduate School; MS 2000 Naval War College

Long, John P. - 2006; Associate Professor, Naval Science; CDR, US Navy; BS 1979 Rutgers; MA 1998 Oklahoma; MA 2001 Naval War College

Schaub, Jeremy P. - 2005; Assistant Professor, Naval Science; LT, US Navy; BA 1997 St. John's College
Student Rights and Responsibilities

The Student in the Academic Community

The following statement was developed by representatives from the student body, the faculty, and the administration, to spell out the role of the student at UNL. In the spring of 1968, the document was adopted by the student government (ASUN), validated by a referendum vote of the student body, adopted by the University (Faculty) Senate, and accepted by the Board of Regents as a continuing policy.

Almost a century ago, the people of Nebraska established this University to provide opportunity for human and intellectual development in the service of society. Repeatedly in the history of the institution, the Regents, the faculty, the students, and the interested public have affirmed those qualities within the University community which have enhanced the development of responsible individualism.

It is appropriate, during a time of change and reassessment of established values, that the academic community re-examine and clarify the conditions conducive to the personal and intellectual development of students. It is the purpose of this document to indicate the general character of the expectations, the rights, and the obligations of the students at the University of Nebraska. The significance of this document will depend upon the willingness of students to exercise the opportunities and to accept the obligations, both stated and implied.

I. General Rights and Responsibilities

All members of the academic community have the responsibility to create and support an educational environment which will achieve the basic purposes of the University. Each member of the community should be treated with respect and dignity. Each has the right to learn. This right imposes a duty not to infringe upon the rights of others. The academic community should assure its members those opportunities, protections, and privileges which provide the best climate for learning. Views and beliefs expressed by a member of the academic community should be kept within the community unless released by the individual. The University encourages a variety of modes in thought, behavior, and values within the guidelines of the educational community.

An important aspect of the educational effort is the recognition of differences between individuals. In all instances, including informal campus activities and associations, each individual should be assured that judgments about the individual will be made on relevant criteria which do not include race and color. Each member of the academic community should actively encourage practices and policies to ensure that all races, colors, creeds, and religions are welcome on the campus and are extended all the privileges of the academic community.

As more and more young people seek the benefits of higher education, it may be desirable for the state University to offer special recognition and assistance to students disadvantaged by limited educational opportunity.

A. Admission Policy

Admission policies of the University of Nebraska should be made clear to all applicants. The Charter of 1869 explicitly provided that admission and the privileges of the University cannot be denied to an applicant because of age, sex, race, color, national origin, religious or political beliefs.

B. Rules and Regulations

Regulations are not comprehensive codes of conduct, but rather expressions of the general expectations of the academic community. Upon admission to the University, students should receive statements of these expectations.

Rules and regulations should:

1. seek the best possible reconciliation between personal freedom and necessary order.
2. be formulated with equitable participation by students in areas affecting student life.
3. be as clear and concise as possible, specifying to whom they apply.
4. be designed for guidance and correction of behavior.
5. be enforced by means of clearly defined channels which assure procedural fairness, including students' rights:
   a. to be informed of the specific charges against them.
b. to receive, upon request, a hearing before a regularly constituted board with the privilege of appeal.

c. to maintain an academic status as a student while a conduct case is pending.

C. Off-Campus Freedom of Students

University students enjoy all the rights and privileges of citizenship. Students are subject, however, to the special obligations which accrue to them by virtue of their membership in the academic community. Institutional effort should be exerted to develop, not inhibit, intellectual and personal development of students by the exercise of the rights of citizenship both on and off campus.

The enforcement of the obligations of students to the larger society is the responsibility of the legal and judicial authorities duly established for that purpose. If students are alleged violators of the law, they should proceed through legal channels, and institutional authority should never be used merely to duplicate those functions.

When the interests of the academic community are clearly involved, the authority of the institution should be asserted. The fact that a violation occurs off campus does not preclude the interest and involvement of the University.

When participating in off-campus activities, students should make it clear that in their public expressions or demonstrations they speak and act only for themselves as individuals.

D. Student Records

All policies and practices concerning student records should be based upon respect for the privacy of the individual. To minimize the risk of improper disclosure, academic and disciplinary records should be separate and the conditions of access to each should be set forth in an explicit policy statement. Transcripts of academic records should include only information about a student's academic status. Upon graduation, notations of probation and suspension will be removed from transcripts of the permanent record. Information from disciplinary and counseling files should not be made available to unauthorized persons on campus or to any person off campus without the expressed consent of the student involved, except under legal compulsion or where the safety of other persons is involved. Provision should be made for periodic destruction of noncurrent disciplinary records.

II. Rights and Responsibilities in the Classroom

A. Freedom of Expression

It is the responsibility of each faculty member to provide an atmosphere which is conducive to freedom of expression by encouraging discussion and permitting exception to the views he/she has presented. In addition, faculty members have the responsibility to guide and direct such discussion and inquiry in a scholarly manner.

The scope and duration of discussion, however, is to be determined by the instructor.

Students have the right of expression in the classroom and the responsibility to learn from the course of study according to the standards of performance established by the faculty. Student behavior in the classroom should contribute to the learning process.

B. Instructional and Grading Procedures

The faculty determines the character of courses which includes content, instructional and grading procedures. Students should be informed of these matters at the beginning of the course.

Each student has the right to a course grade based upon an unbiased evaluation of his/her performance and the specified grading procedure. A student has the right to ask for clarification of the basis of his/her grade.

The faculty of each college or department should provide a standing committee to consider the appeal of those cases in which a student feels the evaluation of his/her performance was biased. This committee must have the authority to direct change based upon its findings.

C. Instructor-Student Consultation

Instructors should be available on a regular basis for consultation with students. Students may ask for an evaluation of their performance during the progress of the course. If a student conveys information of a confidential nature to a member of the faculty, his/her confidence should be respected.

D. Procedure For Course Evaluation

Students can contribute significantly to the evaluation of instruction. The faculty has the obligation to solicit student evaluation of its educational efforts and to make changes in accordance with its best judgment. To assist the faculty in the task of providing the best possible education, students should express their reactions and opinions about the character and relevancy of the instruction to the department or college involved. Each college or school should establish a standing procedure through which student evaluations can be expressed.

III. Rights and Responsibilities in Other Instructional Settings

A. Freedom of Expression

The acquisition, understanding, and interpreting of knowledge can be facilitated by the study and evaluation of controversial positions. Free expression should be permitted in publications and broadcasting. Students should be allowed to invite and hear any person of their own choosing. Those procedures required by the institution before a guest speaker appears on campus should insure orderly scheduling of facilities and adequate preparation for the event.

The institutional control of campus facilities should not be used as a device of censorship. However, all activities should be conducted in a manner appropriate to an academic community.

It should be made clear to the academic and larger communities that sponsorship of events and speakers does not necessarily imply approval or endorsement of the views or actions of either the sponsoring group or the University.

Participation in the exchange of ideas through these media is normal in the academic community.

B. Student Government

Students should be free, individually or collectively, to express their views on institutional policies and procedures. Students should have clearly defined means to participate equitably in the formulation of institutional policies and procedures which affect student life.

Student government is the principal agency for student participation in the decision-making process of the University.

C. Student Organizations

Students bring to the campus a variety of interests and can be expected to develop new interests among the academic community. They should be free to organize and join associations to promote their common interests, provided those associations are not antagonistic to the basic purposes of the institution. Students should be able to participate in those organizations provided they meet the membership requirements set up by the organization; in no instance will these criteria for membership include race or color.

This document was approved by the Student Senate of A SUN (Apr 7, 1968), a Referendum of the Student Body (Apr 10, 1968), the University Senate (May 14, 1968), and the Board of Regents (June 19, 1968).

Student Records Policy

The student records policy at the University of Nebraska-Lincoln is in compliance with the Family Education Rights and Privacy Act.

I. Kinds of Information Maintained About Students

A. Academic Information

1. All records and documents pertaining to a student's academic standing and progress are maintained in a student's cumulative academic record, e.g., admissions application, high school transcript, semester grade reports, cumulative academic records, etc.

2. Confidential files containing academic information are maintained by the Office of Registration and Records, by some college offices (students should inquire of their dean), by faculty advisers, and some academic departments in which a student has his/her major, and by the Office of International Educational Services (for international students).

B. Behavioral Information

1. Behavioral information including all documents pertaining to disciplinary proceedings and notices of sanctions imposed as a result of official University disciplinary action are maintained in confidential files. These files are kept separate from a student's cumulative academic folder.

2. Confidential files containing behavioral information are maintained in the Division of University Housing, the Office of Greek Affairs, and/or the Office of the Vice Chancellor for Student Affairs, depending on the origin and disposition of the behavioral case.

The chief administrator of each office is responsible for the overall supervision of the files in that office.

C. Other Student Services Information

1. Certain educational records and personal information for job placement purposes may be maintained in: the Career Planning and Placement Center under the supervision of
II. Who Has Normal Access to These Files

A. Academic Information

Faculty advisers, college deans, departmental chairpersons, financial aid, registration, and records personnel, and counselors or advisers in offices where academic information is maintained would normally have access to academic files. Other University personnel have access to academic information only for purposes related to their educational function and/or job responsibilities. Persons and agencies outside the University have access to academic information only with the written consent of the student.

B. Behavioral Information

Normally, only staff members employed within the office or division where student behavioral information is maintained have access to such information. Other University personnel have access to student behavioral information only for purposes related to their educational function and/or job responsibilities. Persons or agencies outside the University have access to student behavioral information only with the written consent of the student.

C. Other Student Services Information

1. University personnel employed in offices maintaining placement functions (i.e., the Career Planning and Placement Center and some academic colleges) are normally the only persons who have access to a student's placement files. Other University personnel outside of those University offices maintaining placement functions would have access only for purposes related to their educational function and/or job responsibilities. Persons or agencies outside the University would have access to placement information only with the written consent of the student.

2. Scholarships and Financial Aid office personnel are normally the only persons who have access to student's financial aid information. Other University personnel have access to financial aid information only for purposes related to their educational function and/or job responsibilities. The Office of Scholarships and Financial Aid would have access to scholarship and financial aid applications with supporting data only with the written consent of the student.

3. Student Accounts office personnel are normally the only persons who have access to a student's financial account information. Other University personnel have access to financial account information only for purposes related to their educational function and/or job responsibilities. The Office of Student Accounts considers all students as "dependents" for the purpose of the release of financial account information to parents or guardians. If a student wishes to have all financial account information excluded from parents or guardians, the student must notify the Office of Student Accounts before the tenth day of each semester. Other University personnel have access to such information only with the written consent of the student.

III. Procedures to Access Files

Students who wish to gain access to their personal file within a University office or department should contact the chief administrator of that office or department. The chief administrator or supervisor of the Office of Scholarships and Financial Aid under the supervision of the Director of Scholarships and Financial Aid.

The Office of Scholarships and Financial Aid office personnel have access to financial aid information only for purposes related to their educational function and/or job responsibilities. The Office of Scholarships and Financial Aid under the supervision of the Director of Scholarships and Financial Aid.

IV. Challenge Procedures

Students who wish to challenge the accuracy of any document contained within a cumulative file should contact the dean or director of the office which maintains that file. The dean or director will advise the student of the necessary steps to be taken and of any costs to be assessed to the student for reproduction of file materials.

V. Copies of Cumulative Record Documents

Copies of documents contained within a student's cumulative file will be made available to the student upon written request. (Exception: Copies of transcripts and records furnished by other colleges, universities, or schools will not be made available to the student if the document in question is available through the initiating agency.) The actual cost of reproducing these records may be assessed to the student. Copies of documents within the student's cumulative file, the office involved will notify the student requesting the documents of any reproduction costs which the student must pay.

VI. Release of Information to a Third Party

When a student provides written consent for release of information to another school, business, or agency, the University office or department complying with the request will notify the school or agency involved that it may not pass on the information obtained to a third party without the further consent of the student.

VII Public or Directory Information

The following information pertaining to students has been declared to be public information by the Board of Regents of the University of Nebraska:

1. Student name
2. Dates of registered attendance
3. Nature of any degrees granted and dates conferred
4. Major
5. College
6. Classification
7. Home address
8. Campus address
9. Phone
10. Marital status

Students are advised that information other than public or directory information may be released in emergency or life-threatening situations.
"The right to uphold, to discuss, and dissent is the moral fiber of America's greatness. They are likewise the strength of a great University. In accepting the 'Student and the Academic Community' document, all segments of the University reaffirmed this principle and explicitly extended it to students. Accordingly, members of the academic community, including the guests of the University, have the right to extended latitude in making their opinions known. It is understood, however, that in exercising this right, the rights of others must not be jeopardized. The public exploration and resolution of differing views can be successful only when groups and individuals discuss the issues in forums where the right to disagree, to speak freely and be heard, is preserved. Within this context, the University community recognizes peaceful demonstrations as a legitimate means of expressing one's opinion.

The preservation of freedom of speech, and the right of the recognized right to peaceful demonstration as part of that freedom, is possible only in an orderly environment in which individuals are not endangered by force or violence and in which they are free from coercion and interference in the exercise of their activities. Consequently, in the specific case of campus demonstrations, the University community may impose behavioral restrictions which are necessary to preserve the orderly functioning of the University and the right of all to be heard. Such restrictions include, but are not limited to, the following two categories:

A. Prevention of Violence or the Use of Force

Demonstrations which coerce individuals or which constitute a hazard to the safety of any persons or which threaten destruction of property are not protected by freedom of speech provisions and will not be tolerated. Similarly, a hostile audience will not be allowed to interfere with a peaceful demonstration.

B. Protection from Interference with University Operations

The University community may restrict conduct which interferes with the holding of classes, the carrying forward of University business, properly organized and scheduled University events, or the discharge of responsibility by any University officer, employee, or student. Although the mere presence of demonstrators in public areas within buildings does not necessarily constitute interference, demonstrators cannot be allowed to physically obstruct access to University facilities. Noisy and boisterous activity are objectionable when they prevent others from exercising their rights and duties.

Persons engaging in disruptive action shall be subject to University disciplinary measures for misconduct, including separation from the University, as well as being held accountable by civil authorities for violation of criminal and civil laws.

II. Disruptive Action

The response of the University to disruptive action must ultimately depend on the judgment of the officials who are in charge. However, the following guidelines should be observed:

1. Every effort will be made to end the disruption through reason and persuasion. These efforts will include willingness to discuss issues involved and to establish procedures for discussion and arbitration of the issues involved. Discussion of the issues will not be conducted unless conditions of due process are present. If, during discussions efforts fail, the individuals involved will be asked to cease the disruptive action. In the event the alleged violators do not cease the disruptive activity within a reasonable length of time, temporary sanctions which may include conduct probation and, if necessary, suspension, may be imposed on the scene. However, unless both the student and the University officials agree to a postponement, the University must hold disciplinary hearings within five (5) school days after the imposition of temporary sanctions. Such disciplinary hearings shall be held in accordance with the established Disciplinary Procedures of the University. Notice of temporary sanction shall be made part of a student's permanent record. If a student is found innocent of the action for which temporary sanctions were imposed, no record of the temporary sanction or of the hearings shall become part of any of the student's files or records and the student shall be given the opportunity to make up any work which the disciplinary action prevented him/her from completing.

3. If the use of institutional sanctions and discussion methods are not effective in ending the disruption, or when alleged violators are not members of the University community, extra-institutional methods (including the invoking of police force) may be used. Non-members of the University who are engaged in disruptive action may be referred to civil authorities for appropriate action.

4. Evidence regarding the activity of nonstudent members of the University community who are alleged to have engaged in disruptive behavior may be referred to their supervisors for appropriate actions. The University community abhors the use of force as a method for settling disagreements and will always make exhaustive efforts to deal with issues by rational methods. When, however, such rational efforts prove ineffective or when imminent danger exists, more forceful methods shall be used to protect the rights and property of the community.

III. Public Hearings

It shall be the right of any individual member or group of members of the University (i.e., students, faculty or administrators) to be granted, upon petition to the appropriate policy-making body or office, a public hearing at which the policy indicated by the group of petitioners in their petition shall be discussed. The policy-making body or office petitioned shall schedule the hearing for some time convenient to the interested parties, if possible no later than two weeks after the petition is submitted during periods when the University is in session, and shall announce publicly in advance the time and place of the hearing. At the hearing, body responsible for the policy indicated in the petition shall give an explanation of the policy offered as reasons which justify the policy in view of the objections or questions raised about it in the petition, and respond to any additional questions or criticism of the policy or related policies raised at the hearing. It is expected that before such a petition is submitted, all normal channels for raising questions about the policy will have been exhausted. If, in view of the policy-making body or office to which the petition is mailed, the petition is merely a form of harassment or inadequate answers are available through such normal channels, the petition may be referred to the Vice Chancellor for Student Affairs to determine whether the hearing must be held. A decision by the Vice Chancellor for Student Affairs not to hold a public hearing shall be overruled by the submission of a petition requesting such a hearing and signed by at least 100 members of the University community.

IV. Drugs

A. Possession, Distribution, Manufacture

The University, as an agency of the State of Nebraska, having a responsibility to abide by both state and federal laws hereby declares that possession, use, distribution, sale or manufacture of drugs on this campus except as allowed by law is contrary to University policy. The University will cooperate fully with state and federal law officials in the enforcement of all state and federal laws regarding illegal sale, possession or use of drugs.

B. Definition

The term "drug" and "drugs" in this statement means any drug possessed, used, distributed, sold or manufactured in violation of the laws of the State of Nebraska or of the United States. Some common examples include, but are not limited to:

- Depressants: alcohol, barbiturates (i.e., Seconal®, Nembutal®), other sedative-hypnotic drugs (i.e., Doriden®, Noludar®), minor tranquilizers (i.e., Miltown®, Librium®, and narcotic analgesics (i.e., morphine, heroin).
- Stimulants: amphetamine derivatives (i.e., Dexedrine®, MDA, and cocaine).
- Cannabis: marijuana, hashish, and other preparations containing cannabis or its components.
- Hallucinogens: LSD, mescaline, psilocybin, and other related drugs.

V. Drug Education and Rehabilitation

In addition to its responsibility to assist state and federal officials in the enforcement of state and federal laws, the University as a campus community recognizes a responsibility to its members for education and rehabilitation. Therefore, this policy on drugs shall be administered in the best interest of the physical and mental health of individual members of the campus community. To accomplish this students found to be in need of emergency treatment as a result of drug misuse may be taken to the University Health Center or other appropriate medical facilities where individual problems shall be handled in strict confidence. In addition, all members of the campus community are encouraged to consult with the University Health Center concerning their services for treatment, rehabilitation, information, and education.
2. Definitions

The following definitions shall apply to the Student Code of Conduct and to the University Disciplinary Procedures.

2.1 Alcoholic Beverage. Alcoholic beverage shall include alcohol, spirits, wine, beer and every liquid or solid containing alcohol, spirits, wine or beer and capable of being consumed as a beverage by a human being.

2.2 Campus. Campus shall mean all land, buildings and facilities of or owned, used or controlled by the University of Nebraska-Lincoln, all student housing units, and all streets, alleys, sidewalks and public ways abutting any land of the University or the land upon which a student housing unit is located.

2.3 Dangerous Weapon. Dangerous weapon shall mean any firearm, knife, bludgeon, or other device, instrument, material, or substance, whether animate or inanimate which in the manner it is used or intended to be used is capable of producing death or bodily injury.

2.4 Drug. Drug shall mean any controlled substance included in N e b. R e v. St a t. S e c. 28-405 (1989 R e u s e), which lists controlled substances regulated under Nebraska criminal laws relating to drugs and narcotics. He controlled substances listed in N e b. R e v. St a t. S e c. 28-405 include those drugs listed in the University Policy Statement on Drugs.

2.5 Firearm. Firearm shall mean any weapon which is designed to or may readily be converted to expel any projectile by the action of an explosive or frame or receiver of any such weapon.

2.6 Hazing. Hazing shall mean any activity by an organization or by a member of an organization in which a member, prospective member, pledge or associate of the organization is subjected to acts which cause harm or create a risk of harm to the physical or mental health of the member, prospective member or pledge. Hazing includes, but is not limited to, any act or activity which causes or might reasonably be expected to cause fear or intimidation, extended deprivation of sleep or rest, forced consumption of any substance, physical exhaustion, physical harm (beating, boarding, paddling, branding or exposure to weather), or damage to property.

2.7 Judicial Officer. Judicial Officer shall mean the University Director of Student Judicial Affairs or a University official authorized by the Vice Chancellor for Student Affairs to impose sanctions upon students and organizations found to have violated the Student Code of Conduct or other published University policies and regulations prescribing standards of student conduct.

2.8 Member of the University Community. Member of the University Community shall mean any person who is a student, faculty member, University official or any other person employed by the University.

2.9 Misconduct. Misconduct shall mean any act of misconduct proscribed by the Student Code of Conduct or violation of any other published University policy or regulation prescribing a standard of student conduct.

2.10 Organization. Organization or student organization shall mean any student group recognized by the University, either full-time or part-time, pursuing undergraduate, graduate or professional studies. Persons who are enrolled in courses of the University of Nebraska Medical Center or the University of Nebraska at Omaha delivered on the campus of the University of Nebraska-Lincoln shall be considered students for the purpose of this Code of Conduct and the University Disciplinary Procedures. Persons who are not officially enrolled for a particular term but who have a continuing relationship with the University, such as completion of academic work from a prior term, shall be considered students for the purpose of this Code of Conduct and the University Disciplinary Procedures. An individual who was an enrolled student at the time of any alleged misconduct shall be considered a student for the purpose of this Code of Conduct and the University Disciplinary Procedures.

2.11 Student. Student shall mean any person taking courses on the campus of the University of Nebraska-Lincoln, either full-time or part-time, pursuing undergraduate, graduate or professional studies. Persons who are enrolled in courses of the University of Nebraska Medical Center or the University of Nebraska at Omaha delivered on the campus of the University of Nebraska-Lincoln shall be considered students for the purpose of this Code of Conduct and the University Disciplinary Procedures. Persons who are not officially enrolled for a particular term but who have a continuing relationship with the University, such as completion of academic work from a prior term, shall be considered students for the purpose of this Code of Conduct and the University Disciplinary Procedures. An individual who was an enrolled student at the time of any alleged misconduct shall be considered a student for the purpose of this Code of Conduct and the University Disciplinary Procedures.
affects the educational interests of the University. Off-campus misconduct in violation of a criminal law or involving falsification, alteration or fraudulent use of any University document, record or instrument of identification may, depending upon the nature and gravity of the circumstances, constitute misconduct adversely affecting the educational interests of the University for which an offending student or organization will be subject to disciplinary proceedings and sanctions under the University Disciplinary Procedures. Any misconduct associated with the use of a University vehicle shall be subject to disciplinary proceedings and sanctions. The Vice Chancellor for Student Affairs and the judicial officer shall be the University officials having authority to determine on a case-by-case basis whether University disciplinary proceedings shall be instituted for off-campus misconduct adversely affecting the educational interests of the University.

3.5 University Disciplinary Proceedings Independent of Civil or Criminal Proceedings. University disciplinary proceedings may be instituted against a student or organization charged with violation of a law which is also misconduct under this Code without regard to the pendency of civil litigation or criminal prosecution. University disciplinary proceedings may be carried out prior to, simultaneously with, or following civil or criminal proceedings off campus.

4. Misconduct

The following acts constitute misconduct under this Student Code of Conduct and the University Disciplinary Procedures.

4.1 Disruption or Obstruction of University Operations, Activities or Functions; Unauthorized Occupation of University Premises.

a. Participation in a demonstration on the campus which materially and substantially disrupts the normal operations of the University and infringes upon the rights of other members of the University community.

b. Leading or inciting others to materially and substantially disrupt scheduled activities at any location on the campus.

c. Material and substantial disruption or obstruction of teaching, research, administration, or other University activities, including its public service functions on or off campus, or other authorized activities on the campus.

d. Material and substantial disruption of any activity or event of or sponsored by the University or an organization, either on or off campus.

e. Obstruction of ingress or egress from any University building or facility or any student housing unit.

f. Obstruction of the free flow of pedestrian or vehicular traffic on the campus.

g. Unauthorized occupation of or use of or entry into any University building or facility or any student housing unit, including both indoor and outdoor facilities.

4.2 Academic Dishonesty.

a. The maintenance of academic honesty and integrity is a vital University community. Any student found guilty of academic dishonesty shall be subject to both academic and disciplinary sanctions. Academic dishonesty includes, but is not limited to, the following:

1. Cheating. Copying or attempting to copy from an academic test or examination of another student; using or attempting to use unauthorized materials, information, notes, study aids or other devices for an academic test, examination or exercise; engaging or attempting to engage the assistance of another individual in misrepresenting the academic performance of a student; or communicating information in an unauthorized manner to another person for an academic test, examination or exercise.

2. Fabrication and Falsification. Falsifying or fabricating any information or citation in any academic exercise, work, speech, test or examination. Falsification is the alteration of information, while fabrication is the invention or counterfeiting of information.

3. Plagiarism. Presenting the work of another as one's own (i.e., without proper acknowledgment of the source) and submitting examinations, theses, reports, speeches, oral notes or other academic work in whole or in part as one's own when such work has been prepared by another person or copied from another person.

4. Abuse of Academic Materials. Destroying, defacing, dealing, or making inaccessible any University or other academic resource material.

5. Complicity in Academic Dishonesty. Helping or attempting to help another student to commit an act of academic dishonesty.

6. Falsifying Grade Reports. Changing or destroying grades, scores or markings on an examination or in an instructor's records.

7. Misrepresentation to Avoid Academic Work. Misrepresentation by fabricating an otherwise justifiable excuse such as illness, injury, accident, etc., in order to avoid or delay timely submission of academic work or to avoid or delay the taking of a test or examination.

8. Other. Academic units and members of the faculty may prescribe and give students prior notice of additional standards of conduct for academic honesty in a particular course, and violation of any such standard of conduct shall constitute misconduct under this Code of Conduct and the University Disciplinary Procedures.

b. In cases where an instructor finds that a student has committed any act of academic dishonesty, the instructor may in the exercise of his or her professional judgment impose an academic sanction as severe as giving the student a failing grade in the course. Before imposing an academic sanction the instructor shall first attempt to discuss the matter with the student. If deemed necessary by either the instructor or the student, the matter may be brought to the attention of the student's major advisor, the instructor's department chairperson or head, or the dean of the college in which the student is enrolled. When an academic sanction is imposed which causes a student to receive a lowered course grade, the instructor shall make a report in writing of the facts of the case and the academic sanction imposed against the student to the instructor's department chairperson or head and to the judicial officer. The student shall be provided with a copy of this report. Further, the instructor may recommend the institution of disciplinary proceedings against the student for violation of this Code, if the instructor in the exercise of his or her professional judgment believes that such action is warranted.

c. In cases where an instructor's finding of academic dishonesty is admitted by the student and an academic sanction is imposed by the instructor which the student believes to be too severe, the student shall have the right to appeal the severity of the academic sanction through the applicable grade appeal procedure.

d. In cases where an instructor's finding of academic dishonesty is disputed by the student, the matter shall be referred to the judicial officer for disposition in accordance with the University Disciplinary Procedures. Any academic sanction imposed by the judicial officer shall be held in abeyance pending a final decision of guilt or innocence under the University Disciplinary Procedures. If it is determined through the hearing or procedure that the student is not guilty of academic dishonesty, the instructor's academic sanction shall be set aside. If it is determined that the student is guilty of academic dishonesty, the instructor's academic sanction shall be imposed in addition to any disciplinary sanction which may be imposed under the University Disciplinary Procedures, subject to the student's right to appeal the severity of the academic sanction through the applicable grade appeal procedure.

e. The provisions of Section 4.2 of this Code relating to academic dishonesty and the procedures applicable thereto do not apply to law students in the College of Law who are governed by the Honor Code of the College of Law.

4.3 Falsification or Misuse of University Identification and Other Documents.

a. Forging, altering or otherwise falsifying any University document, any University record or any University instrument of identification, or any official record or instrument of identification.

b. Borrowing, lending or improperly possessing any University document, any University record or any University instrument of identification, or any official record or instrument of identification.

c. Submitting false information to any member of the faculty or staff or to any University officer.

4.4 Misuse of Computers or Computing Resources. University computing resources are for the purposes of education, research, service, and administration. The use of computing resources for any purpose other than a purpose for which they are intended is an act of misconduct. Misuse of computers shall include:

a. Accessing or attempting to access computing resources or computer-based information without proper authorization.

b. Disrupting the intended use of computers or computer networks.

c. Managing or destroying computer equipment or computer-based information.
4.15 **Fireworks and Explosives.** Using or possessing bombs, explosives, incendiary devices, or fireworks.

4.16 **Fires.** Setting or attempting to set any fire on the campus or on the premises of any student housing unit, except in fireplaces or other facilities designated for fires.

4.17 **False Alarm.** Turning in a false fire alarm or bomb threat or misusing fire safety equipment on the campus or on the premises of any student housing unit.

4.18 **Failure to Report Fire.** Failing to report a fire or any other extremely dangerous condition when known or recognized on the campus or on the premises of any student housing unit.

4.19 **Firearms, Ammunition, Dangerous Weapons and Dangerous Chemicals.** Possessing or selling firearms, ammunition, other dangerous weapons, or dangerous chemicals on the campus or on the premises of any student housing unit.

4.20 **Obstruction of Law Enforcement Officers, Firefighters or University Officials.** Obstructing or failing to comply with the directions of a law enforcement officer, firefighter or University official in the performance of his or her duty on the University campus on the premises of any student housing unit or at any activity or event sponsored by the University or an organization.

4.21 **Hazing.** Engaging any person in hazing activity the intent of any person engaging in hazing activity or the consent or cooperation of any person who is a victim of hazing will not constitute a defense to an allegation of misconduct for hazing.

4.22 **Indecent Exposure.** Committing any unlawful act of indecent exposure or public indecency.

4.23 **Gambling.** Any gambling activity in violation of the law of the State of Nebraska or of the United States.

4.24 **Unauthorized Use of University Property.** Unauthorized use of any University property, facilities, equipment or materials.

4.25 **Unauthorized Keys and Unlocking Devices.** Possessing, producing, manufacturing, or having manufactured without proper authorization, any key or unlocking device for use on any University facility or lock.

4.26 **Traffic Violations.** Serious traffic violations on the campus including operating any vehicle while intoxicated, speeding, reckless endangerment, or reckless driving.

4.27 **Regulations Pertaining to Student Housing Units.** Violation of any student housing unit policy, rule or regulation.

4.28 **Insufficient Fund or No Account Checks.** Failure to redeem or make arrangements to redeem, within one week after receipt of written notice, an insufficient fund or no account check submitted to the University for cash or for payment of University goods or services.

4.29 **Abuse of Disciplinary Proceedings.** Abuse of University disciplinary proceedings shall include the following:

a. Failure to obey a request to appear before a judicial officer or a judicial board.

b. False statement before a judicial officer or a judicial board.

c. Disruption or interference with the orderly conduct of any judicial board hearing.

d. Attempting to discourage any person from participating in any disciplinary proceeding.

e. Filing a malicious or frivolous complaint under the University Disciplinary Procedures or subordinate judicial board disciplinary procedures.

f. Attempting to influence the impartiality of a member of a judicial board prior to or during any disciplinary proceeding.

g. Verbal or physical harassment or intimidation of a member of a judicial board prior to, during or after any disciplinary proceeding.

h. Failure to comply with any sanction imposed under the University Disciplinary Procedures or any subordinate judicial board disciplinary procedures.

i. Violation of the privacy rights of any student or University employee in regard to any disciplinary proceeding.

j. Influencing or attempting to influence another person to commit an abuse of disciplinary proceedings.

4.30 **Other Unlawful Acts.** Any act by a student which occurs on the campus, on the premises of any student housing unit or at any activity or event sponsored by the University or an organization which is in violation of any law of the State of Nebraska or of the United Nations, or in violation of any ordinance of the City of Lincoln, shall constitute misconduct.

5. **Disciplinary Sanctions.**

One or more of the following disciplinary sanctions may be imposed as provided in the University Disciplinary Procedures whenever a student or student organization is found to be guilty of misconduct under this Code of Conduct or under other published policies or regulations of the University prescribing standards of student conduct:

5.1 **Warning.** Written notice to the student or organization that continuation or repetition of specified misconduct may be cause for other disciplinary action.

5.2 **Restitution.** Reimbursement for damage to or misappropriation of property or reimbursement for medical expenses incurred by a third party as a direct result of misconduct. Reimbursement may take the form of service, other indirect compensation or direct financial compensation.

5.3 **Confinement of Dangerous Weapons.** Weapons, firearms, ammunition or other dangerous weapons possessed, used or stored on the campus in violation of the Code of Conduct may be confiscated.

5.4 **Probation.** A specified period of time during which a student or organization is warned that any further violation of the Code of Conduct will be cause for further disciplinary action. During the period of probation the student or organization may be prohibited from participating in specified activities.
2.3 Disqualification of Judicial Officer. In the event the Judicial Officer may be a material witness in any disciplinary proceeding or for any reason cannot perform his or her duties under these Disciplinary Procedures, the Vice Chancellor for Student Affairs shall appoint an acting Judicial Officer to perform such duties.

2.4 Review of Complaint. The Judicial Officer shall make a preliminary investigation of each complaint to determine whether it may be disposed of without institution of disciplinary proceedings. Within 20 school days after receipt of a written misconduct complaint against a student or student organization, the Judicial Officer must decide on one of the following courses of action: (a) dismiss the complaint, (b) propose an administrative disposition to the student, or (c) initiate a disciplinary proceeding before the University Judicial Board or a subordinate judicial board.

2.5 Informal Meeting. The Judicial Officer may conduct an informal meeting with a student or organization accused of misconduct to discuss the misconduct alleged. Prior to any such informal meeting the student or organization accused of misconduct shall be apprised in writing of the following:

a. The source and nature of the misconduct complaint which has been filed.
b. That the student or organization is entitled to be accompanied by counsel or an adviser at the expense of the student or organization at any meeting or hearing relevant to the misconduct alleged in the complaint.
c. That the student or organization is under no obligation at any time to admit the misconduct alleged or to make any other statement at any meeting or hearing relevant to the misconduct alleged.
d. That any statement that the student or organization may make can be used against the student or organization.

During any such informal meeting the Judicial Officer may proceed with administrative disposition of a complaint pursuant to Section 4.2 of these Disciplinary Procedures if the Judicial Officer determines that administrative disposition is appropriate and if the same is accepted by the student or organization as provided in Section 4.2.

2.6 Failure to Respond or Appear. If a student or organization accused of misconduct fails to respond to a request to appear for an informal meeting with the Judicial Officer pursuant to Section 2.5 within 20 school days after the request document was postmarked, the Judicial Officer may initiate disciplinary proceedings before the University Judicial Board, or a subordinate judicial board. If a student or organization fails to appear for a scheduled informal meeting, the Judicial Officer may initiate disciplinary proceedings before the University Judicial Board or a subordinate judicial board.

3. Temporary Suspension

Pending initiation of disciplinary proceedings by the Judicial Officer, the Chancellor may at any time temporarily suspend a student from the University or deny a student re-admission when the Chancellor finds and believes from information coming to his or her attention that the presence of the student on the University campus would seriously disrupt the University or constitute a danger to the health, safety or welfare of persons on the campus. If a student is temporarily suspended by the Chancellor, the Chancellor shall promptly instruct the Judicial Officer, in the exercise of his or her professional judgment, to institute appropriate disciplinary proceedings against the student within two (2) working days after temporary suspension is imposed. If a student placed on temporary suspension is ultimately found not guilty of misconduct, such student shall be allowed at all possible to make up academic work missed while on suspension.

4. Administrative and Judicial Board Disciplinary Proceedings

4.1 General. If the Judicial Officer determines that the institution of a University disciplinary proceeding for alleged misconduct is necessary, such proceeding shall be instituted against the student or organization accused of misconduct in accordance with the procedures for administrative disposition or the procedures for University Board disposition hereinafter provided.

4.2 Administrative Disposition. The Judicial Officer, in the exercise of his or her professional judgment and when agreed to in writing by the student or organization, shall have authority by administrative disposition of a disciplinary proceeding to impose any of the disciplinary sanctions provided in Sections 5.1 through 5.6 of the Student Code of Conduct. The proposed administrative disposition shall list all Student Code of Conduct violations with which the student or organization is being charged as a result of the alleged misconduct. Where an administrative disposition is not accepted in writing by the student or organization, the student or organization shall have the right to have the matter of the alleged misconduct referred to the University Judicial Board. If the student or organization shall have three days within which to accept or reject an administrative disposition proposed by the Judicial Officer. If the student or organization fails to accept or reject the proposed administrative disposition within such three day period, rejection will be presumed and the matter shall be referred to the University Judicial Board in accordance with the procedures for University Board disposition hereinafter provided.

4.3 Judicial Board Disposition. If a student or organization rejects administrative disposition of a disciplinary proceeding proposed by the Judicial Officer, the Judicial Officer shall institute a disciplinary proceeding against the student or organization before the University Judicial Board or before a subordinate judicial board for the misconduct alleged in the complaint. The disciplinary proceeding so instituted shall be limited to those Student Code of Conduct violations listed in the rejected administrative disposition, unless new evidence becomes available after the administrative disposition was rejected. Further, the Judicial Officer in the exercise of his or her professional judgment may institute a disciplinary proceeding for alleged misconduct directly before the University Judicial Board or before a subordinate judicial board without first offering administrative disposition to a student or organization accused of misconduct.
4.4 Jurisdiction. The University Judicial Board shall have general original jurisdiction under these Disciplinary Procedures to hear and decide any disciplinary proceeding against a student or organization accused of misconduct. Subordinate judicial boards shall have limited original jurisdiction to hear and decide disciplinary proceedings according to their respective disciplinary procedures (See Section 3.1(e) relating to jurisdiction of subordinate judicial boards).

5. University Judicial Board Procedure

5.1 Notice. All disciplinary proceedings before the University Judicial Board shall be instituted by written notice delivered to the student accused of misconduct or delivered to an officer of the organization accused of misconduct. Such written notice shall contain the following information:

a. Source of the misconduct complaint.

b. Basis for proceeding and nature of charges.

c. Statement of the specific provision(s) of the University regulations, Student Code of Conduct or other published University policy or regulation under which the student or organization may be disciplined.

d. Description of the evidence to be offered in support of the alleged misconduct.

e. Date, time and place of the hearing before the Judicial Board. Each hearing shall be at least three (3) school days after the date of receipt of the written notice.

f. A statement that the student or organization accused of misconduct may be accompanied by counsel or other adviser at the hearing before the Judicial Board at the expense of the student or organization, and that such counsel or adviser may advise the student or organization, but may not directly participate in the hearing.

g. That the student or organization accused of misconduct is under no obligation to admit the truth of the alleged misconduct or to make any other statement at the hearing relevant to the alleged misconduct, and that refusal to testify or make a statement will not be considered an indication of guilt.

h. That the student or organization accused of misconduct has the right to inspect before the hearing in the office of the Director of Student Affairs any affidavits, exhibits or other documentary or physical evidence which the Director intends to offer at the hearing, and that the student or organization will be advised in writing prior to the hearing of any subsequently discovered evidence which the Director intends to offer at the hearing and will be provided with a description of the evidence and allowed to examine the same if it is documentary or physical evidence.

5.2 Failure to Appear. The student accused of misconduct or a student officer of the organization accused of misconduct will be expected to appear at the hearing before the Judicial Board. If the student or a student officer of the organization fails to appear at the time and place designated for the hearing, the Judicial Board shall proceed with the hearing if a majority of the Judicial Board members present are satisfied that the student or organization has received written notice as required by Section 5.1. The Judicial Board will then proceed in the absence of the student or student officer to hear and weigh the evidence in support of the alleged misconduct and render a decision.

5.3 Quorum. Every student or organization accused of misconduct in disciplinary proceedings before the Judicial Board shall be entitled to a hearing by a quorum of the Board. A quorum will consist of at least two faculty members and three student members of the Board. If a quorum is not present, the student or student officer of the organization, as the case may be, and the Judicial Officer may deliberate and agree in writing that the Judicial Board hearing may be conducted and the case may be decided by those Judicial Board members present even though a quorum has not been established.

5.4 Status Pending Judicial Board Proceedings. The status of a student accused of misconduct shall not be altered and the right of a student to be present on campus and to attend classes shall not be suspended during the time of any disciplinary proceeding against the student unless the Chancellor or the Vice Chancellor for Student Affairs determines that suspension of the student is required for compelling reasons in order to protect the student's physical or emotional health or safety or for compelling reasons in order to protect the health, safety or welfare of other students or the University community. The status of an organization accused of misconduct shall not be altered during the time of any disciplinary proceeding against the organization, unless the Chancellor or the Vice Chancellor for Student Affairs determines that suspension of the organization from the University is required for compelling reasons in order to protect the health, safety or welfare of the University community.

5.5 Disqualification of a Board Member. a. If any member of the Judicial Board feels that his or her relationship with either a disciplinary proceeding or any individual or organization involved in the proceeding would affect his or her ability to render a fair and impartial decision, such Judicial Board member shall disqualify himself or herself from participating in the proceeding. Additionally, a member may elect not to serve on the Judicial Board for a particular proceeding if the member in the exercise of reasonable discretion believes there may be an appearance of impropriety by his or her serving as a member of the Judicial Board for that proceeding.

b. The student accused of misconduct or a student officer of the organization accused of misconduct may question any Judicial Board member with regard to his or her attitude or knowledge about the disciplinary proceeding to be heard. If a member of the Board is challenged for cause by the student or organization, the other members of the Board present shall, without the presence of the challenged member, vote upon the challenge. If a majority of the members present vote to sustain the challenge, the challenged member shall be excused from further participation in the proceeding. The remaining member or members shall not relieve the Judicial Board from the requirement of maintaining a quorum for the hearing as required by Section 5.3 above.

5.6 Judicial Board Hearings Closed. All hearings of the Judicial Board shall be closed to the public in order to comply with the requirements of the Federal Family Educational Rights and Privacy Act.

5.7 Right to Separate Hearing. In proceedings involving alleged misconduct against more than one student or organization, any student or organization accused of misconduct may request and shall be granted a separate disciplinary proceeding before the Judicial Board.

5.8 Hearings During Dead Week, Finals Week and Summer Sessions. Judicial Board hearings may not be available during the last two weeks of each semester (Dead Week and Finals Week) and during summer school sessions. During these time periods the Vice Chancellor for Student Affairs may designate one or more hearing officers who shall be authorized to conduct hearings and render decisions in disciplinary proceedings in accordance with the procedures governing the Judicial Board.

5.9 Decisions. The Judicial Board shall render a written decision in each proceeding in accordance with the requirements of Sections 7.1 and 7.2 of these Disciplinary Procedures.

6. Rules for Conduct of Judicial Board Hearings

6.1 General. Judicial Board hearings shall be conducted in a manner which will provide substantial justice for the student or organization accused of misconduct and for the University community.

6.2 Order of Evidence and Closing Arguments. Evidence shall be submitted in the following order: (i) evidence by the University in support of the alleged misconduct, (ii) evidence by the student or organization accused of misconduct, and (iii) evidence by the University or other evidence concerning the alleged misconduct. After the presentation of evidence, the Judicial Officer shall give the opportunity to present a closing argument followed by a closing argument by the student or organization.

6.3 Examination of Witnesses. The student or organization accused of misconduct, the Judicial Officer and each member of the Judicial Board shall be allowed to hear and question all witnesses appearing at the hearing.

6.4 Attorney or Adviser Not Allowed to Participate in Hearing. An attorney or other adviser for a student or organization accused of misconduct may be present at the hearing to counsel the student or organization, but may not directly participate in the hearing. Without limiting the generality of the foregoing sentence, an attorney or other adviser shall not be permitted to make oral presentations or arguments, examine or cross-examine a witness, or object to testimony of a witness or to introduce other evidence.

6.5 Evidentiary Rules. The Board shall not be bound by the formal rules of evidence applicable to a court of law. It may admit and give probative effect to evidence, including hearsay evidence, which possesses probative value commonly accepted by reasonably prudent
persons in the conduct of their affairs. Incompetent, irrelevant, immaterial and unduly repetitious evidence may be excluded. The Judicial Board shall designate one of its members to make rulings on admission of evidence.

6.6 Verbatim Record. The Judicial Board shall make a confidential verbatim record of each hearing. Such verbatim record shall be made by tape recording or verbatim transcription by a court reporter and shall be the property of the University. Copies of such record may be obtained by an accused student or organization upon payment of the cost of duplication and used only for the purpose of an appeal under these Disciplinary Procedures or proceedings in a court of law. In no event shall the record of a Judicial Board hearing be used in a manner which violates the privacy rights of any student, University employee or other person.

6.7 Burden of Proof. In all cases the University shall have the burden of proving the misconduct alleged against the student or organization by a preponderance of the evidence received at the hearing. Preponderance of the evidence is not determined by the number of witnesses who testify concerning a disputed fact, but rather is that amount of evidence which, on the whole, and when fairly and impartially considered, produces the stronger impression on the Judicial Board and is more convincing of the existence of the fact when weighed against the evidence in opposition thereto. If the evidence concerning a disputed fact is evenly balanced or if it preponderates in favor of the accused student or organization, then the University will have failed to meet the required burden of proof. The Judicial Board is not limited to consideration of evidence introduced by the University in determining whether the University has met its burden, but should consider any evidence tending to establish the University's contention of a disputed fact, even though such evidence is introduced by another.

7. Judicial Board Decisions

7.1 Form of Decision. After hearing a disciplinary proceeding, the Judicial Board by a majority vote based upon the evidence received shall render a decision as follows:

- a. Not in Violation. Misconduct has not been proved; or
- b. In Violation. Misconduct has been proved. In this case the Judicial Board may decide to impose a disciplinary sanction, if mitigating circumstances warrant that no sanction be imposed, or it may decide to impose disciplinary sanctions as follows:
  1. Warning
  2. Restitution
  3. Confiscation of Dangerous Weapons
  4. Conduct Probation
  5. Behavioral Requirement
  6. Suspension
  7. Expulsion

Sanctions listed in 1 through 7 above may be combined. See Sections 5.1 through 5.7 of the Code of Conduct for a description of disciplinary sanctions. Sanctions imposed by the Judicial Board shall be commensurate with the gravity of the misconduct.

7.2 Written Decisions; Delivery. The Judicial Board shall render its decisions in writing within ten (10) school days after the conclusion of a hearing. The decision shall contain findings of fact as well as the Board's disposition of the proceeding and shall be delivered to the Office of the Vice Chancellor for Student Affairs together with the verbatim record of the Judicial Board hearing. A copy of the decision shall be mailed within five school days to the student or organization accused of misconduct at the address of record as verified at the hearing.

In disciplinary proceedings involving crimes of violence, the judicial officers of the University of Nebraska-Lincoln will, if requested by the victims, disclose to the victims whether charges against students violating the Student Code of Conduct were upheld. The disciplinary sanctions imposed on the offenders may be disclosed to the victims at the discretion of the judicial officers. Violations of the Student Code of Conduct and Disciplinary Procedures which may be considered crimes of violence include: physical abuse, sexual assault, dangerous conduct, and haunting.

8. Supplemental Rules

The Judicial Board may adopt supplemental rules and regulations, not in conflict with the provisions of these Disciplinary Procedures, which the Board shall determine to be necessary for the fair and impartial conduct of its proceedings.

9. Rehearing

A student or organization found guilty of misconduct by the Judicial Board may petition the Judicial Board to rehear the proceedings upon the discovery of new evidence within 90 days from the date of the decision of the Judicial Board, except that in cases of suspension a petition for rehearing may be filed anytime during the term of suspension, and in cases of expulsion there shall be no time limit on the filing of a petition for rehearing. The Judicial Board will judge the sufficiency of the new evidence, and no appeal may be taken from its decision to either grant or deny the request to rehear the disciplinary proceedings. If a rehearing is granted the verbatim record of the original hearing shall be fully admissible as evidence. In the rehearing of a case the student or organization must bear the burden of proving that the original decision should be modified or rescinded because of the new evidence.

10. Judicial Board Membership and Term of Office

10.1 Membership. The University Judicial Board shall have five student members and four faculty members. The University Senate shall provide the Chancellor with fifteen recommendations from which he or she will select five regular student members and five alternate student members to serve on the Judicial Board. The Academic Senate shall provide the Chancellor with ten recommendations from which he or she will select five regular faculty members and four alternate faculty members to serve on the Judicial Board. Members shall attend a Judicial Board training session prior to serving on the Board.

10.2 Vacancies. Vacancies on the Judicial Board, including temporary vacancies, may be filled by the Vice Chancellor for Student Affairs or his or her designee from the list of alternate members appointed by the Chancellor. Should the need arise, the Academic Senate and the ASUN Senate shall at the request of the Chancellor submit additional lists of alternate members to the Chancellor. Should the Academic Senate or the ASUN Senate refuse or for any reason fail to submit any of the above-mentioned lists of alternate members to the Chancellor when requested, the Chancellor shall directly make any appointment required to fill a vacancy on the Judicial Board.

10.3 Term of Office. Members of the University Judicial Board shall be appointed for a term of one academic year from the first day of classes extending through the last day of classes. Members may be reappointed provided their names are included on the lists submitted to the Chancellor pursuant to Section 10.1. Members may not serve more than two consecutive terms.

10.4 Chairperson. The Judicial Board shall select a student chairperson and a faculty chairperson, either of whom may preside at Judicial Board hearings.

10.5 Removal from the Judicial Board. If any of the following situations occur, a member may be removed from the Judicial Board by the Vice Chancellor for Student Affairs:

- a. A member fails to respond to meeting notices more than twice in a single semester.
- b. A student member is found to be in violation of the Student Code of Conduct.
- c. A member is found to be in violation of the privacy rights of any member of the University community who is involved in a disciplinary proceeding.

11. Appeals and University Disciplinary Appeals Board Procedure

11.1 Right of Appeal. A student or organization found guilty of misconduct by the University Judicial Board or any subordinate judicial board shall have the right to appeal to the University Disciplinary Appeals Board which has exclusive appellate jurisdiction in all disciplinary proceedings.

11.2 Timeliness. Any appeal must be submitted in writing to the University Appeals Board and received in the Office of the Vice Chancellor for Student Affairs within fourteen (14) calendar days after the date of mailing the Judicial Board decision to the student or organization accused of misconduct.

11.3 Issues to be Considered on Appeal. The Appeals Board shall only consider one or more of the following four issues on appeal:

- a. That the evidence received by the judicial board was not sufficient to establish the misconduct.
- b. That the judicial board did not conduct its proceedings in a manner which permitted the student or organization accused of misconduct an adequate opportunity to present a defense.
- c. That sanctions imposed by the judicial board are not in keeping with the gravity of the misconduct.
d. That the judicial board failed to follow the applicable disciplinary procedures and that as a result of such failure the student or organization did not receive a fair and impartial hearing.

An appeal which does not clearly raise in writing one or more of the four issues listed above shall be dismissed without further consideration. The Appeals Board may limit its review to the issue or issues raised in the written appeal and shall not address any issue not raised. The Appeals Board shall complete its review of the written appeal within 20 school days after its receipt, and shall promptly issue written notice of its decision to the student or student organization.

11.4 Oral Arguments. In considering an appeal, the Appeals Board may ask both the student or organization making the appeal and the Judicial Officer to make an oral presentation. In this case the student or organization making the appeal shall first make an oral presentation followed by an oral presentation by the Judicial Officer. The Appeals Board may ask questions of both parties.

11.5 Record of Proceedings Before the Judicial Board. Upon request by the Appeals Board, the Judicial Officer shall deliver to the Appeals Board the record of the judicial board proceedings including the tape recording or written transcription of the judicial board hearing.

11.6 Disposition By Appeals Board. After reviewing an appeal complying with the requirements of Section 11.3, the Appeals Board may decide as follows:

a. Affirm the judicial board decision;

b. Order a rehearing before the Appeals Board following the hearing procedures applicable to the University Judicial Board if the Appeals Board finds (i) that the evidence received by the judicial board was not sufficient to establish the misconduct found, or (ii) that the proceedings of the judicial board were not conducted in a manner which allowed the student or organization an adequate opportunity to present a defense, or (iii) that the judicial board failed to follow the applicable disciplinary procedures and that as a result of such failure the student or organization did not receive a fair and impartial hearing;

c. Modify any sanction imposed by a judicial board if the Appeals Board finds that the sanction is not in keeping with the gravity of the misconduct found.

11.7 Status Pending Appeals Board Proceedings. Any sanctions imposed by a judicial board shall be suspended until an appeal is decided by the University Appeals Board. The status of a student shall not be altered and the right of a student to be present on campus and to attend classes shall not be suspended during the time of any appeal proceeding unless the Chancellor or the Vice Chancellor for Student Affairs determines that suspension of the student is required for compelling reasons in order to protect the health, safety or welfare of other members of the University community.

The status of an organization shall not be altered during the time of any appeal proceedings unless the Chancellor or the Vice Chancellor for Student Affairs determines that suspension of the organization from the University is required for compelling reasons in order to protect the health, safety or welfare of the University community.

11.8 Quorum. A quorum will consist of one faculty member and two student members. If a quorum is not present, the student or student officer of the organization, as the case may be, and the Judicial Officer may stipulate and agree in writing that the appeal may be heard by those Appeals Board members present even though a quorum has not been established.

11.9 Disqualification of an Appeals Board Member. If any member of the Appeals Board feels that his or her relationship with either a disciplinary proceeding to be heard or any individual or organization involved in the proceedings would affect his or her ability to render a fair and impartial decision, such Appeals Board member shall disqualify himself or herself from participation in the proceeding. Additionally, a member may elect not to serve on the Appeals Board for a particular appeal proceeding if the member in the exercise of reasonable discretion believes there may be an appearance of impropriety in his or her serving as a member of the Appeals Board for that appeal proceeding. The foregoing shall not relieve the Appeals Board from the requirement of maintaining a quorum as required by Section 11.8 above.

11.10 Attorney or Adviser Not Allowed to Participate. An attorney or other adviser for a student or organization may be present at any proceedings of the Appeals Board to counsel the appellant student or organization, but may not directly participate in the proceedings.

11.11 Verbatim Record. The Appeals Board shall make a confidential verbatim record of its proceedings. Such verbatim record shall be made by tape recording or verbatim transcription by a court reporter and shall be the property of the University.

11.12 Appeals During Dead Week, Finals Week and Summer Sessions. Appeals Board hearings may not be available during the last two weeks of each semester (Dead Week and Finals Week) and during summer school sessions. During these time periods the Vice Chancellor for Student Affairs may designate one or more hearing officers who shall be authorized to hear appeals and render decisions in accordance with the procedures governing the Appeals Board.

11.13 Appeals Board Proceedings Closed. All proceedings of the Appeals Board shall be closed to the public.

11.14 Appeals Board Decision Final. Decisions of the Appeals Board shall be final and may not be further appealed within the University.

12. Appeals Board Membership and Term of Office

12.1 Membership. The University Appeals Board shall have four student members and three faculty members. The ASUN Senate shall provide the Chancellor with eight recommendations from which he or she will select four regular student members to serve on the Appeals Board.

12.2 Term of Office. Members of the University Appeals Board shall be appointed for a term of one academic year. Members may be re-appointed provided their names are included on the lists submitted to the Chancellor pursuant to Section 11.1. Members may not serve more than two consecutive terms.

12.3 Chairperson. The Appeals Board shall select a student chairperson and a faculty chairperson, either of whom may preside at Appeals Board hearings.

12.4 Removal from the Appeals Board. If any of the following situations occur, a member may be removed from the Appeals Board by the Vice Chancellor for Student Affairs:

a. A member fails to respond to meeting notices more than twice in a single semester.

b. A student member is found to be in violation of the Student Code of Conduct.

c. A member is found to be in violation of the privacy rights of any member of the University community who is involved in a disciplinary proceeding.

13. Subordinate Judicial Board Structure

13.1 Subordinate Judicial Boards. The Vice Chancellor for Student Affairs may require that subordinate judicial boards be established by the Director of University Housing in conjunction with the Residence Hall Association, and by the Director of Greek Affairs in conjunction with the Interfraternity Council and the Panhellenic Association. The disciplinary procedures under which a subordinate judicial board will function must be in conformity with these Disciplinary Procedures and shall not become effective until approved by the Vice Chancellor for Student Affairs. All subordinate judicial boards shall be established in accordance with the following requirements:

a. Composition. Members of a subordinate judicial board shall be nominated by members of the cognizant student governing or coordinating body and appointed by the Vice Chancellor for Student Affairs. Faculty and staff members of a subordinate judicial board shall be nominated by the cognizant director (University Housing or Greek Affairs) and appointed by the Vice Chancellor for Student Affairs.

b. Term of Office. Members of the subordinate judicial board shall be appointed for a term of one academic year beginning the first day of classes and extending through the last day of classes. Each member has the obligation to attend an orientation session to be held before the first case may be heard.

c. Quorum. Each subordinate judicial board shall establish its own rules with respect to the quorum required to conduct a hearing.

d. Staff Advisers. Subordinate judicial boards will have staff advisers from the appropriate departments within the Division of Student Affairs.
e. Jurisdiction. Each subordinate judicial board will have limited original jurisdiction as provided in its disciplinary procedures over alleged violations of the Student Code of Conduct, University policies and regulations, regulations of the cognizant student governing or coordinating body and regulations of member organizations of the governing or coordinating body.

f. Decisions. After hearing a case, a subordinate judicial board may decide as follows:
   1. Not Guilty. Misconduct has not been proved; or
   2. Guilty. Misconduct has been proved. In this case a subordinate judicial board may decide not to impose a disciplinary sanction, if mitigating circumstances warrant that no sanction be imposed, or it may decide to impose one or more of the following disciplinary sanctions:
      • Warning
      • Restitution
      • Conduct Probation
      • Behavioral Requirement

g. Appeals. Appeals from decisions of a subordinate judicial board may be made to the University Appeals Board in accordance with Section 11 of these Disciplinary Procedures.

13.2 Jurisdictional Issues. Issues relating to the jurisdiction of any subordinate judicial board shall be decided by the Vice Chancellor for Student Affairs.

14. Disciplinary Records

   Transcripts of University academic records will not include information concerning disciplinary action, except in cases of expulsion. Information from disciplinary and counseling files will not be made available to unauthorized persons without the express written consent of the person involved or as otherwise authorized or required by law. Disciplinary records shall be destroyed seven years after the last sanction was imposed, except in case of expulsion, where disciplinary records shall be permanently maintained. Notwithstanding the foregoing, records of Honor Code violations of the College of Law shall be maintained only as provided by said Honor Code.

15. Readmission After Expulsion

   Any student who has been expelled from the University under these Disciplinary Procedures may at any time after seven (7) years from the date of expulsion request readmission to the University by written petition to the Vice Chancellor for Student Affairs. If the Vice Chancellor for Student Affairs in the exercise of his or her discretion grants readmission, the student's prior disciplinary record of expulsion shall be destroyed.

This Code of Conduct was established in 1973. It was revised June 1980, June 1990, June 1995, and June 1999.
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