

# 2010-11 General and Graduate Catalog



CELEBRATING  
**100** years  
1910-2010  
WAYNE STATE COLLEGE

# Wayne State College



*Dr. Richard Collings  
President  
Wayne State College*

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## **Mission Statement**

### ***Learning Excellence, Student Success, Regional Engagement***

Wayne State College is a comprehensive institution of higher education dedicated to freedom of inquiry, excellence in teaching and learning, and regional service and development. Offering affordable undergraduate and graduate programs, the College prepares students for careers, advanced study, and civic involvement. The College is committed to faculty-staff-student interaction, public service, and diversity within a friendly and collegial campus community.

# ***How to Enroll at Wayne State College***

Write, phone, or visit the College. We suggest you contact the Admissions Office.

Admissions Office  
Hahn 107  
Wayne State College  
1111 Main Street  
Wayne, Nebraska 68787  
Phone: 1-866-228-9972 or 402-375-7234  
*admissions@wsc.edu*

The Admissions Office can supply the information you will need, or direct you to your area of interest where faculty will assist you.

## ***Academic Schools and Departments***

### **School of Arts & Humanities**

Art & Design  
Communication Arts  
Language & Literature  
Music

### **School of Business & Technology**

Business & Economics  
Computer Technology &  
Information Systems  
Technology & Applied Sciences

### **School of Education & Counseling**

Counseling & Special Education  
Educational Foundations & Leadership

### **School of Natural & Social Sciences**

Health, Human Performance & Sport  
History, Politics & Geography  
Life Sciences  
Physical Sciences & Math  
Sociology, Psychology &  
Criminal Justice

***Call 1-800-228-9972 or 402-375-7000 and ask for a school or department.***

You may also want to visit the Financial Aid Office, located in Hahn 102.  
The phone number is 1-800-228-9972 or 402-375-7230.

Visit the Wayne State Web site at *www.wsc.edu*

*Wayne State College is a member of the Nebraska State College System.*

# **2010-2011 GENERAL & GRADUATE CATALOG**

VOLUME XCIX      AUGUST 2010

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Wayne State College is an open institution committed to providing access and opportunity for all students to fulfill essential educational needs regardless of race, creed, disability, marital status, national origin, gender, sexual orientation, culture, and/or socioeconomic conditions. The programs and instruction have a commitment to multi-cultural education from which students can gain respect and appreciation for the total culture of ethnic and minority groups in American society.

Wayne State College makes every effort to provide facilities and academic programs that are accessible to individuals with disabilities. Wayne State College ensures that no employment or educational policy is discriminatory on the basis of individual characteristics other than qualifications for employment, quality of performance of duties, and conduct in regard to their employment in accord with Board policies and rules and applicable law.

Every effort is made to ensure the accuracy of information in this catalog, but Wayne State College reserves the right to make changes without prior notice. Wayne State College also reserves the right to cancel programs or courses due to low enrollment or budget constraints. Wayne State College provides the information herein solely for the convenience of the reader and, to the extent permissible by law, expressly disclaims any liability, which may otherwise be incurred. The words "he" or "she" refers to any member of the College community.

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# 2010-2011 ACADEMIC CALENDAR

## First Semester, August-December 2010

Classes Begin - Monday, August 23, 8:00 a.m.  
 Late Registration/Drop-Add -  
 Mon.-Fri., August 23-29  
 Labor Day Recess - Monday, September 6  
 Mid-Term Break - Mon.-Tue., October 18-19  
 Fall Break - Wed.-Fri., November 24-26  
 Study Week - Tue.-Mon., December 7-13  
 Last Class/Final Exam Week -  
 Tue.-Fri., Dec. 14-17  
 Commencement - Friday, December 17, 2:00 p.m.

## Second Semester, January-May 2011

Classes Begin - Monday, January 10, 8:00 a.m.  
 Late Registration/Drop-Add -  
 Mon.-Fri., January 10-14  
 Mid-Term Break - Monday-Friday, March 7-11  
 Spring Break - Monday, April 25  
 Study Week - Tue.-Mon., April 26-May 2  
 Last Classes/Final Exam Week -  
 Tue.-Fri., May 3-6  
 Commencement - Saturday, May 7, 9:30 a.m. &  
 2:00 p.m.

## May Three-Week Session 2011

Monday, May 9 - Friday, May 27, 2011

## May Eight-Week Session 2011

Monday, May 9 - Thursday, July 7, 2011

## June Five-Week Session 2011

Monday, June 6 - Thursday, July 7, 2011

## June Ten-Week Session 2011

Monday, June 6 - Wednesday, August 10, 2011

## July Five-Week Session 2011

Monday, July 11 - Wednesday, August 10, 2011

2010																							
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## GENERAL INFORMATION

### ***Effective Dates of This Catalog***

Revisions in degree requirements and academic regulations take effect on the first day of the fall semester of the year designated in the catalog. Students at WSC will normally follow the degree requirements and academic regulations of the catalog in force at the time of their admission. However, a student who changes majors or fails to earn at least 12 semester credit hours in every two academic years will be governed by the current catalog. The student may exercise the option of changing to a later catalog, but in such a case the student must fulfill all of the degree requirements and academic regulations.

Nebraska State Department of Education regulations may change and affect teacher education requirements immediately, without first appearing in a WSC general & graduate catalog.

### ***Student's Responsibility***

Students are expected to read the regulations of the College and to conform to them. The student, not the College or a member of the faculty, is primarily responsible for meeting requirements for a degree.

Registration and payment of fees imply an agreement by the student to conform to regulations of the College. Students failing to meet current obligations to the College, financial or otherwise, may be denied a degree or transcript.

The Student Handbook contains conduct regulations and disciplinary procedures. The Handbook also gives useful information about campus living, policies, services, and activities. Handbooks are available in the Student Center for off campus students.

### ***Family Educational Rights and Privacy Act of 1974***

It is the policy of Wayne State College to provide students the right to inspect and review official records as provided in the Family Education Rights and Privacy Act of 1974 as amended by Public Law 93-568, also known as the Buckley Amendment.

The Family Education Rights and Privacy Act allows the College to release designated information without prior consent of a student unless the student has notified the Office of Records and Registration that he/she desires this information be restricted from release without consent. Any student wishing to have directory information withheld from reporting must provide a notarized request (available in the Office of Records and Registration) to the Office of Records and Registration.

Directory information at WSC includes: student name, local address and telephone listing, permanent address and telephone listing, e-mail addresses, date and place of birth, enrollment status (full/part time), major field of study, dates of attendance, year in college, degrees and awards received and dates, most recent previous educational agency or institution attended, participation in officially recognized activities and sports, and weight and height of athletic team members.

## The College

### ***History of Wayne State College***

Wayne State College is located in Wayne, Nebraska, a city of about 5,500 in northeastern Nebraska. Omaha, Lincoln and Sioux City, Iowa, are within easy driving distance of Wayne. These three cities and Norfolk, Nebraska, 30 miles from Wayne, are served by scheduled airlines.

The College was established as the Nebraska Normal College at Wayne in 1891, and was founded and operated by Professor James M. Pile until his death in 1909. In that year, the Nebraska State Legislature authorized the purchase of the property, buildings and equipment of the Nebraska Normal College and renamed it the State Normal College. It opened under that name in September 1910, with Dr. U.S. Conn as president.

In 1921, by act of the State Legislature, the school became a State Normal School and Teachers College with legal authority to grant baccalaureate degrees in education. In 1949, the Legislature changed the name of the institution to Nebraska State Teachers College at Wayne and granted authority to confer the baccalaureate degree for study in liberal arts. The graduate program leading to a master's degree was authorized in 1955, and in 1963 the Legislature changed the name of the college to Wayne State College.

WSC has an average enrollment of about 3,500 students during the regular session. Summer enrollment totals about 2,200 in the May, June, and July sessions.

### ***Overview of the Current Role and Mission***

WSC is a regional public college and is a part of a three-school state college system geographically positioned to serve rural Nebraska.

The College's basic mission is twofold: it strives to develop students of a wide range of academic abilities through quality teaching and support, and it strives to assist with the development of its service region through the delivery of public service programs and activities.

The College is primarily an undergraduate institution offering a comprehensive curriculum with equal emphasis on the arts and sciences, business and teacher education. Graduate programs are offered at the master's level in Business Administration, Education and Organizational Management and at the Education Specialist level in Education. Additional master's level programs will be developed in other fields as regional demand requires and as authorization is provided.

The College has built upon its rich tradition as a teachers college by emphasizing strong teaching and helpful out-of-class

support in a personalized setting. A comprehensive co-curricular program of student activities offered in a manageable residential setting provides students with opportunities to enhance personal characteristics and leadership abilities. In addition, the College has extended its tradition of helping by becoming a regional service center enhancing the quality of life and fostering development in its rural service region. The public service programs and activities provided are in large part a product of the applied research and community service activities of the College's faculty and staff.

As a regional public college functioning as one of many public agencies of the State of Nebraska, WSC's mission is driven by the social and economic utility of its work. The themes, which guide the College's work, are:

### **Student Development**

**By reaching and educating more of the traditional and non-traditional students in our service region, we will have a major impact on the essence of rural development—educated citizens.**

- Students are human capital, our most precious resource for the future.
- In order to reach, educate and graduate more of the potential students in our service region we must remain affordable and accessible.
- Our emphasis on teaching and support services in a personalized setting increases our students' likelihood for success.

### **Regional Development**

**We are a center, a focal point, and a catalyst in northeast Nebraska, not only for education but also for the arts, cultural activity and community and economic development assistance.**

- Our challenge is to increase the availability of a well-educated labor pool while helping our rural communities enhance the quality of life they offer.
- Rural revitalization can be enhanced significantly by aggressively delivering the college's public service programs to communities in our service region.
- We are a public agency carrying out a regional agenda for the benefit of statewide development.

In all WSC does, it strives to remember that it is not the end product; its students and its region are the end products. The College is an investment vehicle, a public agency, carrying out a regional agenda on behalf of statewide development.

### ***Degrees Authorized***

WSC is authorized to grant the following degrees: bachelor of arts (1949), bachelor of science (1949), master of business administration (1984), master of science in organizational management (2006), master of science in education (1955), and education specialist in school administration (1981).

Students planning to teach will find the minimum requirements for a beginning teacher listed in the descriptions of teaching endorsements (in the section on Undergraduate Programs). Each candidate for a teaching certificate must be recommended by the College.

The College offers a variety of pre-professional programs, in addition to the degree programs. These programs are for students preparing to enter professional schools or for students who wish a two-year program. By proper selection of courses, the student may qualify for admission to professional schools. See the Pre-Professional Programs section.

### ***Accreditation and Affiliations***

Wayne State College is accredited by The Higher Learning Commission of the North Central Association of Colleges and Schools (30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504; 1-800-621-7440). The baccalaureate degrees have been approved since 1933, the master's degrees since 1962, and the education specialist degree since 1983. The National Council for Accreditation of Teacher Education has accredited all of the College's undergraduate education programs since 1954 and all graduate programs since 1962. Bachelor of Science in Business Administration and Master of Science in Business Administration have been accredited by the International Assembly of Collegiate Business Education (IACBE), a professional business accrediting institution. The College is approved at both undergraduate and graduate levels by the Nebraska Board of Education.

WSC is a member of the American Association of Collegiate Registrars and Admissions Officers, the Association of State Colleges and Universities, the National Association for College Admission Counseling, the American Association of Colleges for Teacher Education, The College Board, the Council of Graduate Schools in the United States, the National Association of Student Financial Aid Administrators, the National Commission on Accrediting, the Nebraska Association for Teacher Education, the Nebraska Council for Teacher Education, the National Collegiate Athletic Association, and the North American Society of Sport Management. Women graduates are eligible for membership in the American Association of University Women.

### ***Use of Human Subjects in Research***

Federal laws require that research projects involving human subjects be designed as much as possible to protect the rights of these subjects. This pertains to projects for classes, thesis research, or problems in lieu of the thesis. Each proposal involving human subjects and the provision for their protection must be reviewed and approved by the advisor/instructor, appropriate department chair, and the Institutional Review Board (IRB).

### ***Use of Animals in Research***

Federal laws require that research projects involving vertebrate animals be designed as much as possible to assure humane

treatment. The research protocol also needs to follow established procedures for the proper care and use of animals. This pertains to research projects for classes, independent study, or any other research activities conducted at Wayne State College. Each proposal involving animals in research must be reviewed and approved by the advisor/instructor, department chair, and the Institutional Animal Care and Use Committee (IACUC).

### ***Schools of the College***

For administrative purposes, as of the Fall of 2001 the fields of study at the College are divided into four schools as follows: Arts & Humanities, Business & Technology, Education & Counseling, and Natural & Social Sciences.

### ***Objectives of the College***

In fulfilling the assignment made by the State Legislature in establishing state colleges, WSC endeavors to educate successful teachers and citizens by means of the following objectives:

**General Objectives:** To prepare students to accept the privileges, duties, and responsibilities of citizens in a democracy; to develop moral and ethical values; to encourage a well-integrated personality and behavior practices which are consistent, tolerant, cooperative, and stable; to encourage creative ability; to develop aesthetic judgments; to promote the competence in and understanding of fields of knowledge which are required of educated people, especially of teachers.

**Objectives of General Education:** General Education provides students opportunities to develop a will and capacity for lifelong learning and encourages the development of creative thinking and intellectual curiosity.

The General Education courses at WSC have the following goals. Students will:

- **Develop expression** - Foster communication skills that facilitate effective expression of ideas; (e.g. writing, speaking, reading, listening, and visualizing).
- **Participate in methods of inquiry** - Advance ideas and concepts through applied critical, logical, scientific, and creative thinking skills and processes.
- **Expand knowledge** - Enhance awareness, understanding and appreciation of complex issues and diverse perspectives across a broad range of academic disciplines.
- **Encourage civic involvement** - Develop a sense of civic responsibility and involvement in a diverse society.

**Objectives for Professional Education:** To provide the experiences and courses that will serve teachers in improving education; to develop within the student an increasing understanding of children and adolescents as growing and developing personalities; to make available to the student the varied interpretations of the place of the school in society and its present organization and administration; to develop within the student a thorough understanding of the nature of the learning process as revealed by educational psychology; to develop within the student an appreciation of the importance of method and technique in guiding learning activities to acquaint students with tenable principles of teaching as established by research and to acquaint students with the materials now available for instructional purposes; to encourage students to develop a philosophy that will be useful in teaching and living in our society; to develop within the student a wholesome attitude toward the ethics of the teaching profession.

**Objectives for Pre-Professional Programs:** To provide competent and appropriate preparatory education for those students who intend to pursue a degree program in a specialized professional area not offered for completion at WSC; to make available for students who do not desire to complete a WSC degree program, a competent educational basis for limited vocational pursuits; and to incorporate within the pre-professional preparation, areas of study which tend to extend the professional person's general knowledge and appreciation.

## **The Campus**

WSC's campus dwells on 128 acres at the north edge of Wayne. Its 22 buildings are notable for a continuity of architecture. Half of them were built in the past 30 years, and the older buildings have been extensively modernized. The campus is designated as a Nebraska State Arboretum, recognizing the variety and number of trees and shrubs. A distinctive feature of the campus is its Willow Bowl, a picturesque amphitheater that is the traditional site of spring commencement and many programs. Open land to the north and east of clustered buildings gives ample space for athletic fields and a popular new jogging trail that winds through hundreds of recently planted trees and shrubs. The 18-hole Wayne Country Club golf course is adjacent to campus and is available for student use.

### **Major buildings on the campus:**

**Benthack Hall of Applied Science** contains classrooms and laboratories for industrial technology, family and consumer sciences, and vocational education. The building was named for Dr. Walter Benthack, a member of the college governing board (1939-45) and a Wayne physician for more than half a century.

**Brandenburg Education Building** is home for the School of Education & Counseling and the Dorothy and Henry Ley Theatre. The building was completely renovated in 1981 and named for former President W.A. Brandenburg (1956-73).

**Carhart Science Building** houses life sciences, physical sciences, and mathematics. A popular attraction is the Fred G. Dale Planetarium, which presents interesting, informative programs weekly for the public during first and second semesters. Also found in Carhart Science is the A. Jewell Schock Museum of Natural History which features a preservation of animal and plant specimens and archeological artifacts that serve as educational resources. The building is named for Ralph M. Carhart, member of the state college governing board (1945-57) and a Wayne businessperson.

**Carlson Natatorium** houses a competitive-size swimming pool, rooms for dance and aerobics, locker rooms, and saunas. The building, attached to Rice auditorium, was named for Esther Dewitz Carlson, physical education instructor at the college from 1925 to 1962.

**Conn Library** provides informational and instructional resources for the College and for northeast Nebraska. The collection includes 221,000 volumes, 36,000 government documents, access to over 10,000 journals full text on-line, 650,000 microforms, 6,500 audiovisual items, and about 700 periodicals in print. The library has seats for 550 people at tables, study carrels, lounge areas, and group study rooms. The library uses the Innovative Interfaces' integrated library automation system, sharing an electronic holding catalog with libraries of the other Nebraska State Colleges. Information and instructional resources are provided to support undergraduate programs and to improve the intellectual environment of the College. Conn Library contains: print and nonprint media; state and federal documents; audio visual materials and equipment; computer labs; microforms; photocopying equipment; music scores and recordings (cassette, CD's and DVD's); study, conference, and classroom spaces; a special children's and young adult resource library; a popular reading collection of new and current fiction and non-fiction; and media production facilities (overhead transparencies, posters, Ellison letters and art, laminating equipment, conversions from cassette to CD's, color printing, color photocopying, etc.) The library bears the name of the college's first president, U.S. Conn (1910-1935), and was built in 1956.

**Connell Hall**, renovated in 1999, houses the Department of History, Politics, and Geography (HPOG) and the Department of Sociology, Psychology, and Criminal Justice (SPCJ). Connell contains offices, classrooms, distance-learning rooms, technology labs, a GIS lab, and the Social Sciences Research Center.

**Gardner Hall**, opened in 1994, contains the offices and classrooms of business and incorporates the latest in computer technology. It is WSC's newest academic building and is named in honor of Daniel W. and Jeanne M. Gardner for their years of service and support.

**Hahn Administration Building** houses most of the general administrative offices, the college post office, administrative computing center, and the network and technology services. It was named for Dean Henry H. Hahn, head of the college's education department and founder of the campus training school (1910-46).

**Humanities Building** houses classrooms and faculty offices for English, modern languages, communication arts, broadcasting, and journalism. This facility also houses all of the College's student media (the Wayne Stater newspaper, the KWSC-FM radio station, and the KWSC-TV cable television station). The College media operations are supported with a computer laboratory, editing suite, production rooms with digital audition workstations, state-of-the-art lighting, non-linear editing systems, and an integrated wireless newsroom system for teleprompting and closed captioning.

**Memorial Stadium/Cunningham Field/Bebee Plaza** seats about 3,500 for football and track and field events. The newly-renovated stadium includes a press box, concession stand, and a new 400 meter all weather track with eight lanes. Honoring their years of service and support, Cunningham Field is named for Bob Cunningham, and Bebee Plaza is named for Tim and Leslie Bebee.

**Peterson Fine Arts Center** houses performance venues, the College's exhibition space, classrooms and faculty studios for the Department of Music and for the Department of Art and Design, a music technology laboratory, practice rooms, and rehearsal rooms for bands, choirs, strings, and percussion. The primary musical and theatrical performance venue for the College, The Lied Performance Arts Center, is housed in this facility and includes the recently-renovated Ramsey Theatre, seating 680, a "black-box theatre," scene shop, green room, design studio, and costume shop. Also housed in this facility is the College's primary art exhibition space, the Nordstrand Visual Arts Gallery. This gallery presents exhibits from a series of guest artists throughout each year, serves the primary exhibition space for student and faculty shows, and serves as a major cultural resource for northeast Nebraska. The building's name honors Val Peterson, governor of Nebraska, U.S. ambassador to Denmark and Finland, founder of the Wayne State Foundation, journalist, teacher, and alumnus of the college.

**Recreation Center** houses an indoor track and court areas for basketball, volleyball, and tennis; handball and racquetball courts; a weight room; and offices.

**Rice Physical Activity Center** houses the Department of Health, Human Performance, and Sport (HHPS), a combination gymnasium-auditorium, classrooms, weight room, and other health, human performance and sport areas. The gymnasium-auditorium seats about 1,500 for sport activities and 2,000 for auditorium functions. The building was named for John D. Rice, College President from 1951 to 1956.

**Student Center** expanded and remodeled in 1995, contains a cafeteria and a food court. In addition, there are rooms for meetings and banquets, recreation rooms, the college bookstore, Student Activities Office, and Student Senate Office. Other offices in this building include the Dean of Students, Director of Housing, Learning Center, Counseling Center, Testing Services, Student Health, and Career Services and Cooperative Education.

**Studio Arts Building** contains the offices and classrooms of the Art department. This structure was completely renovated in 1998-99 to provide new classroom, studio, and office space.

## HOUSING/MEALS

### *Residence Halls*

Freshman students under 20 years of age are required to live in a campus residence hall unless they (1) are married or (2) are

living with their parents or legal guardian, or (3) have already lived in a campus residence hall for one full academic year.

The College operates seven residence halls, each under the supervision of an Assistant Director of Residence Life assisted by student resident assistants. The halls offer a variety of attractive living accommodations for students and contribute to the academic and social life of the campus. More than 1,550 students can be housed in the seven halls.

Rooms in the residence halls accommodate from one to four students, and are furnished with single beds, mattresses, chairs, dressers, study tables, closets, and storage space. Students are expected to furnish their own blankets, sheets, pillow, towels, curtains, study lights, rugs, and personal articles.

Loft beds and small refrigerators are available on a lease basis through the College for students who live in the residence halls.

All residence hall rooms have local telephone, cable television, and campus internet service provided at no additional cost.

### ***Residence Hall Deposit***

A deposit of \$100 must be submitted with the residence hall application in order to reserve a room in a residence hall. The deposit will be refunded, less any deductions for unnecessary wear or damage to the hall or furnishings, under the following conditions:

1. The student vacates the residence hall at the end of the contract period and does not submit a contract for the next year.
2. The student cancels the housing contract by written notice to the Residence Life Office by July 31 for fall semester cancellations or November 30 for spring semester cancellations.
3. The student officially withdraws from WSC or is suspended.
4. The student vacates the residence hall room after the last day of fee payment but after following proper checkout procedures.
5. The contract is terminated at the request of or with approval of the Director of Residence Life or the Dean of Students.

### ***Food Service***

All students living in the residence halls must participate in the food service program of the College. Students who believe that individual circumstances warrant an exemption to this requirement should contact the Residence Life Office, Student Center 201.

Food service is available in the student cafeteria (Student Center second floor), Cat's Corner food court (Student Center lower level) and Jitter's Coffee Shoppe (Conn Library). The student cafeteria serves three meals a day Monday through Friday and two on both Saturday and Sunday. Cat's Corner and Jitters Coffee Shoppe are open extended hours as posted. On campus students may select from a variety of meal plans including 10 meals, 15 meals, or 19 meals per week. Students selecting the 10-meal plan may eat any 10 meals, students selecting the 15-meal plan may eat any 15 meals, and the 19 meal plan any 19 meals Sunday through Saturday. Each meal plan includes a specified amount of Cat Cash. Cat Cash is a declining balance dollar amount that can be used at any campus food service area. Students living off campus may purchase a 3- or 5-meal plan (not available for on campus students) or a 10-, 15-, or 19 meal plan.

Meal plan contracts are made for a period of one academic year. Students may indicate their choice of meal plan on their application for campus housing or at the time of registration. Changes in the type of meal plan may be made through the last day for enrollment each semester. Meal plan changes may not be made thereafter during the semester.

Additional money (Cat Cash) may be added to a student's meal plan through a declining balance (DCB) program available at the Food Service Office (located in the student cafeteria, upper level.)

## **STUDENT SERVICES**

### ***Learning Center***

The Learning Center provides a variety of academic services for WSC students. Credit courses are offered and listed under General Studies (GST) in the college catalog and class schedule/registration booklets. A student is allowed to take up to five hours of GST credits to be applied as general electives to a degree program. Other services include individualized assistance from learning skills specialists as well as peer tutors, and study skills assistance covering such areas as time management, note-taking and test-taking, test anxiety and improvement of memory and concentration. The Learning Center also offers Myers-Briggs (personality) indicator workshops.

**Writing Help Desk:** The Writing Help Desk is available for every WSC student to facilitate the WSC goal of improving every student's writing skills. Professional staff and peer tutors are available to work one-on-one with a student on writing assignments, make suggestions regarding usage, word choice, and sentence structure, brainstorm with a student regarding possible topics for an assignment, determine if a student has a thesis and support for that thesis, and instruct the student on proper citing of sources.

**Early Alert Program:** The Early Alert Program is implemented when a student is having academic difficulty and is referred by faculty and in turn contacted by the Learning Center for an academic counseling session. An additional goal of the program is to enhance communication among faculty/staff, students, and their advisors.

**Tutor Program:** Students enrolled in General Education courses and in many lower level courses may receive free academic

assistance through the Learning Center's peer tutor program. Nationally certified tutors, available to all departments, provide free academic assistance in specific subject areas from accounting to zoology. Tutors can help to clarify homework assignments, improve study methods, and provide test-taking tips. They are trained to work closely with students in individual tutoring, and may provide group review sessions before major tests and quizzes. Tutors are juniors and seniors with a 3.0 or higher GPA. They are compensated for their services with a double occupancy room in a residence hall or a ten-meal plan.

**Athletic Academic Program:** This program (AAP), co-sponsored by the Learning Center and the Athletic Department, is dedicated to helping the student athlete succeed both in the classroom and on the playing field. Mentors work with at-risk student athletes several times per week.

### ***STRIDE Student Support Services Program***

STRIDE is an acronym for Students Taking Responsibility in Development and Education and is an established, federally-funded TRIO program promoting equal access to higher education.

STRIDE offers individualized and intensive academic and personal support services designed to enhance learning, increase satisfaction with the college experience, and promote completion of requirements for graduation.

Students are encouraged to take advantage of program offerings such as: one-on-one peer tutoring; peer mentoring; small study groups; study skills assistance in time management and note taking; assistance with building core skills in writing, critical thinking, and math; and private consultations with a STRIDE advisor regarding personal academic progress. STRIDE staff members also assist students with academic advising, career planning, disability accommodations (if needed), and personal and financial counseling.

STRIDE services are effective. Students who are participants in STRIDE earn higher grades and graduate at a higher rate than the campus average.

To be eligible for STRIDE, a student must meet the following criteria:

- 1) be a U.S. citizen or national or meet federal financial aid requirements;
- 2) have a demonstrated need for academic assistance;
- 3) be at least one of the following:
  - a) a first generation college student or
  - b) low income (according to federal guidelines) or
  - c) have a documented disability.

There is an application process to be accepted into STRIDE. For more information, visit the STRIDE office located on the lower level of the Student Center or phone the Director of STRIDE at 375-7500.

### ***Counseling Center***

The Counseling Center provides services to students to assist in their personal growth and adjustment to college. Students may drop by in person or call to make an appointment. Emergency assistance is also available.

**Personal Counseling:** Confidential counseling services are available, free of charge, to all WSC Students. Personal counseling may emphasize such areas as self-growth, values clarification, stress management, human sexuality, and interpersonal relations. Other topics that may concern students include alcohol and drug abuse, eating disorders, and a variety of possible crisis situations, such as rape, relationship breakups, or threat of suicide. Referral assistance is also provided to other resources such as Student Health, hometown mental health centers, Campus Ministry, Vocational Rehabilitation, and Alcoholics Anonymous.

**Disability Services Program:** The Disability Services Program provides services for students with disabilities at Wayne State College. Disability Services are offered through the Counseling Center and include: determining eligibility for services, referral to appropriate resources and responding to requests for accommodations. Accommodations can include: exam accommodations, recorded books and campus reader service, computer-aided learning, learning strategies, support/discussion groups and screening and referral for evaluation.

**Nutrition Information:** Nutritional counseling is available in the Counseling Center to assist students with concerns about healthy eating, weight management, eating disorders, and other nutritional concerns.

**Testing Services:** WSC participates in the national education testing programs listed below. Information on registration and testing dates for the following exams may be obtained from the Counseling Center.

**American College Testing Program (ACT):** Completion of the ACT assessment is required for all entering freshman students who have graduated from high school within the past three years. The ACT profile (test results) helps students in making decisions about college and career planning, and is used in academic advising and course placement, as appropriate. Entering students should take the ACT assessment during their junior or senior year of high school.

**College Level Examination Program (CLEP):** This program is designed to allow students to receive college credit through the examination process without actually taking certain college courses. CLEP examinations are administered at WSC several times during the academic year. Detailed descriptions of the CLEP program, the Advanced Placement Program and Credit by Institutional Examination are given elsewhere in this catalog.

**Graduate Record Examination (GRE):** Students seeking admission to some graduate programs at WSC (and many other colleges and universities) must complete the Graduate Record Examination (GRE) General Test. The GRE General Test registration is available through the Counseling Center. It is offered as an online exam. The GRE Subject Tests are also available

at WSC and are offered in a paper/pencil format. Contact the Counseling Center (402-375-7321) or the Graduate Office (402-375-7232) for a GRE bulletin. Test schedule information is also available at [www.wsc.edu/counseling\\_center/testing/](http://www.wsc.edu/counseling_center/testing/).

**Graduate Management Admission Test (GMAT):** Students seeking admissions to the MBA at WSC (and many other colleges and universities) must complete the Graduate Management Admission Test (GMAT). The GMAT is available at computerized testing centers. Students can register by calling 1-800-462-8669 or contacting a test center directly. GMAT Information is available online at <http://www.mba.com/mba/TheGMAT/GMATInformationBulletin/>.

**Teacher Education:** A competency exam is available to meet teacher education competency requirements. The Praxix I Pre-Professional Skills Test (PPST) meets the initial competency requirement to enter the teaching field. Those tests are administered through the Counseling Center. Any student pursuing a degree that includes elementary level training should also take Praxix II EECIA to become designated as No Child Left Behind (NCLB) qualified by the Nebraska Department of Education.

**TOEFL** Test of English as a Foreign Language: The TOEFL test is offered as an online exam to prospective students seeking an English Language test score. Interested student can call 375-7321 for more information or contact the Educational Testing Service.

**Academic Advising** is a process through which advisors assist students in developing life plans and career goals and in clarifying institutional requirements, policies, procedures, resources and educational options. Students with declared majors are assigned to academic advisors in their academic program. Undeclared students are assigned to academic advisors in the Counseling Center and other Student Service areas. New students will be offered academic support, career planning, and assistance adjusting to college.

**International Student Advising:** International student advising is available to students with F-1 or other visas that allow participation in college degree programs. The International Student Advisor is available in the Counseling Center to assist students with questions about Immigration and Customs Enforcement (ICE) regulations, adjustment to college, assistance with initial class selection or other concerns related to working in the United States.

**Career Planning:** Assistance is available to help students explore career avenues and develop career goals through individual and group sessions. This is accomplished through an assessment process that includes evaluation of a student's interest, abilities, values and personality characteristics. Upon selecting major and career options, students have the opportunity to research job opportunities through computerized career exploration programs, printed career materials and video presentations. A one credit career planning course is also available.

### **Health Services**

Each new student, freshman or transfer, is required to submit a self-reporting Student Health and Immunization Record upon entering the College. A health form for this purpose is provided in the Admissions packet. All students born after January 1957 must submit verification of two (2) measles (rubeola) or MMR immunizations after the age of 12 months. Immunizations histories should be date specific (day, month, year). In addition to the measles requirement, international students and anyone assessed to be at risk are required to have a recent Mantoux T.B. test.

International students attending WSC must be continually enrolled in a WSC approved health insurance policy that includes medical evaluation and treatment as well as repatriation benefits. If the student does not have such coverage the institution will help him/her obtain the proper insurance.

The services of a part-time physician's assistant and a full-time college nurse are available to students. Included in the college health services are provisions for consultation and such treatment by the college P.A. as may be administered in the college student health center located in the Providence Medical Center. The College **does not pay hospitalization costs or physician's fees** other than the foregoing.

While the college exerts every effort to protect the physical and mental health of students, it cannot assume responsibility for expenses of students incurred by sickness or accidents.

### **Career Services**

The Career Services Office offers a variety of services and programs to assist with the career development, job search and employment needs of WSC students, graduating seniors and alumni. Career search assistance is offered in developing career search techniques and strategies and in assisting with resumes, cover letters and interviewing techniques. Employment information and opportunities are available for part-time and summer jobs, Cooperative Education experiences/internships, and full-time opportunities.

The Cooperative Education/Internship program is designed to assist students in locating paid work experiences related to a student's major. The Co-op/Internship experience can be completed for credit hours or for transcript notation. Any student who is enrolled at least half-time during the fall and spring semesters and has completed 24 credit hours with a GPA of 2.0 or better may be eligible to participate, subject to approval by the academic department governing his/her major. (Eligibility requirements may vary by department.)

Career Services also assists students make connections with employers offering employment opportunities. They host and participate in several Career Fairs on and off campus throughout the year. These events provide all students opportunities to learn about a significant number of career opportunities and, in many instance, opportunities to interview directly for summer jobs, Cooperative Education experiences, internships, or full-time employment.

## CO-CURRICULAR ACTIVITIES

Extracurricular activities are promoted at WSC because they can make a significant contribution to the education and satisfaction of students. Some activities are co-curricular, related to classes, but open to any student interested in participating. Among them:

**Athletics** The intercollegiate athletic program at WSC includes football, basketball, baseball, track, golf and cross-country for men and volleyball, basketball, softball, track, golf, soccer and cross-country for women. All sports are governed by the National Collegiate Athletic Association (NCAA) at the Division II level. WSC is a member of the Northern Sun Intercollegiate Conference (NSIC).

**Broadcast** Stereo FM radio station on the air daily through first and second semesters, television station airing several nights a week on a city cable channel.

**Concerts, speakers, drama** The College's Black & Gold Series brings renowned speakers, musicians, and other interesting performers to campus. In addition, the Student Senate and Student Activities Board arrange many entertainment programs, financed by the student activity fee, which students have voted to levy on themselves.

**Dramatics** Five to seven plays and musicals a year, including several one-acts that are student-directed.

**Forensics** Intercollegiate competition in forensic events.

**Intramural sports** These attract a large percentage of WSC students, both men and women. Team sports include flag football, basketball, volleyball, co-ed volleyball, softball, co-ed softball, and bowling. In addition, there are about two dozen other sports for individuals.

**Music** Marching and concert band, chorus, orchestra, madrigal singers, jazz band, small ensembles.

**Social activities** Students may find opportunities for pleasure at formal and informal dances, parties, and programs sponsored by campus organizations.

**Student publications** Weekly newspaper rated All-American, annual literary magazine.

### *Student Organizations*

Opportunities abound for students to participate in organizations to develop their talents and their social and personal qualities. The college encourages all students to join and be active in organizations fitting their interests. The Coordinator of Student Activities (located in the Student Center) maintains a roster of organizations and officers whom students may contact for information.

Three organizations are concerned with student government. The **Student Senate** has a president and vice president elected by the whole student body and senators elected to represent the residence halls and off-campus students. The **Student Activities Board**, with volunteer members, plans many special events. **Residence Hall Councils** govern each residence hall, with a council elected by residents and operating under the hall's constitution. All three bodies have major responsibilities to represent their student constituents in relations with each other, with organizations, and with the college administration and faculty.

Other organizations include:

- honoraries in academic disciplines—dramatics, English, forensics, broadcast, business, business education, teaching, band men and band women, mathematics, physical sciences, industrial education, and social sciences.
- national service honoraries, for men and women, and a scholastic honorary for high-ranking freshmen.
- a national professional fraternity in business.
- religious clubs.
- about two dozen special interest clubs.
- social sororities and fraternities.

A list of these organizations appears in the Student Activities Handbook.

## CONTINUING EDUCATION

Through a cooperative effort between the academic schools and the Office of Continuing Education, WSC is able to offer classes at off-campus locations and through alternative delivery methods.

Courses offered through the Continuing Education office range from traditional face-to-face delivery to flexible internet-based courses and interactive courses delivered through local distance learning consortiums. WSC is an educational partner with many northeast Nebraska community school districts in supporting a regional, interactive, distance learning network. Continuing education courses are scheduled and organized to be responsive to the needs of non-traditional students and may meet weekends, evenings, once a week, or in other flexible formats.

WSC's continuing education programs serve mainly the graduate student population. Each year a large number of courses are offered for graduate students in master's level programs and workshops throughout the region. Students interested in the Master of Science in Education (MSE) degree are served in our off-campus programs through classes held in such communities as Fremont, Grand Island, Columbus, Norfolk, and South Sioux City. In addition, the Education Specialist degree is offered online. Programs such as the Master of Business Administration (MBA) degree are scheduled with the busy working student in mind. Students may complete an MBA degree in Norfolk by attending flexible evening and/or technology-delivered courses, or completely online. A Master of Science in Organizational Management (MSOM) degree with a choice of four concentrations has recently been added and will soon be available entirely online. Graduate level students interested in courses for personal and professional enrichment

will also find many opportunities for continuing their education and lifelong learning through WSC continuing education course offerings.

Students interested in learning more about WSC off-campus/distance learning programs should contact the Office of Continuing Education by e-mail at [extcampus@wsc.edu](mailto:extcampus@wsc.edu) or by phone (1-800-228-9972, ext. 7217). The information is also available on our website: [www.wsc.edu](http://www.wsc.edu).

## FOUNDATION / ALUMNI

### ***Wayne State Foundation***

The Wayne State Foundation is a non-profit corporation organized by alumni and friends of the College “to operate as a charitable and educational foundation exclusively for the promotion and support of Wayne State College.” With funds derived from grants, gifts, bequests, and a reserve endowment fund, the Foundation supports programs of student loans, scholarships, awards, and other educational activities for which tax funds are either not available or may not be used for a specified purpose. The Wayne State Foundation has also secured contributions for construction and renovation projects and campus beautification.

### ***Wayne State Alumni Association***

The Alumni Office establishes, maintains and enhances relations between the College, students, alumni and friends that foster a spirit of loyalty, involvement and life-long commitment to the College and one another. The Alumni Office hosts events which enable its alumni and friends to meet each other, maintain friendships, and keep up to date on the mission and needs of the College.

## ADMISSION PROCEDURES

### ***Applying For Admission***

WSC is an open enrollment institution committed to providing access and opportunity for all students to fulfill essential educational needs regardless of race, culture, disability, and/or socioeconomic conditions. The programs and instruction have a commitment to multicultural education from which students can gain respect and appreciation for the total culture of ethnic and minority groups in American society.

Students seeking admission to the college can obtain an official application from several sources:

1. clicking on the “Apply Now” icon on the WSC website: [www.wsc.edu](http://www.wsc.edu)
2. download the PDF application from the WSC website: [www.wsc.edu](http://www.wsc.edu)
3. high school guidance counselor;
4. contacting the Office of Admissions.

The completed application should be submitted to the Office of Admissions. The application and any transcripts of credit become the property of WSC and will not be returned or forwarded.

Based on Nebraska State College Board of Trustees Policy, WSC reserves the right to deny or restrict the admission of anyone who has ever been convicted of, or is currently under indictment for, a criminal offense involving physical injury to persons or property. This also applies to anyone institutionalized for conduct causing physical injury to persons or property.

### ***Admission Fee***

The admission application processing fee is required at the time the student first submits the application for admission. The admission fee is \$30.00 for domestic and international students. This fee does not apply toward tuition or any other fees and is valid for up to one year after the time of initial application. The application processing fee is refundable only if the student is denied admission.

## ADMISSION REQUIREMENTS

### ***Freshmen -- High School Graduates***

WSC will admit, as first-time freshmen, those students who have graduated from an accredited high school. High school seniors may submit their applications for admission, the application fee, and transcript any time after completion of the sixth semester of high school. Seniors must submit at least a six-semester transcript sent directly from their high school. A final high school transcript documenting official graduation date from that high school must be submitted to WSC prior to the start of the semester for which admission is being sought.

Upon review by the Director of Admissions, conditional admission acceptance may be granted to high school students prior to completion of the sixth semester of high school.

All freshman applicants under the age of 21 are expected to submit test scores from either the American College Testing Program (ACT) or the Scholastic Aptitude Test (SAT). The ACT is preferred. Students should take one of these tests prior to April of their senior year in high school. The scores are not generally used in an admission evaluation, but rather to help to determine which college courses students should take in their first year. If the student does not submit an ACT or SAT score, they must complete a COMPASS Math test to determine math placement prior to course enrollment. The ACT/SAT scores are also used to determine academic scholarship eligibility and/or academic eligibility for intercollegiate athletics to meet NCAA requirements.

Students with low scores may be required to enroll in transitional courses to prepare the student for academic success at WSC.

Each new student, freshman or transfer, is required to submit a self-reporting Student Health and Immunization Record upon entering the College. A health form for this purpose is provided by the Office of Admissions.

While students meeting the minimum state requirement for graduation from high school will be admitted, such students will be better prepared to succeed at WSC if they take a college preparatory curriculum in high school. For this reason we strongly recommend the following high school curriculum.

#### **RECOMMENDED HIGH SCHOOL CURRICULUM**

ENGLISH	4 UNITS (years)
MATHEMATICS (including Algebra)	3 UNITS (years)
SOCIAL STUDIES	3 UNITS (years)
SCIENCES	2 UNITS (years)

We also recommend additional courses in:

FOREIGN LANGUAGE  
FINE AND PERFORMING ARTS  
COMPUTER LITERACY

#### ***Early Entry Students***

This program provides an opportunity for high school students, prior to graduation, to take WSC freshmen-level courses in a field of interest not offered by the high school. These courses may be applied toward a WSC degree program or they may be used for transfer to another college. Regular college credit would be earned upon the successful completion of courses. Early entry students should attempt no more than six credit hours per semester.

The standard application for admission must be submitted, along with the application processing fee and a written authorization from the high school counselor or principal before enrollment. Enrollment will not be permitted prior to receipt of these documents.

#### ***GED Diploma Students***

Persons desiring admission who do not hold a high school diploma are advised to complete graduation requirements, through equivalency examination or other means, in the district of their residence. The High School Equivalency Certificate also known as the General Education Development diploma (GED) will be accepted in lieu of a high school diploma for the purpose of admission. To be considered for admission, the student must submit the following items to the WSC Office of Admissions:

1. the completed application for admission and the application processing fee;
2. an official copy of the GED scores, sent directly from the testing center, and a copy of the diploma certificate;
3. high school transcripts from all high schools (grades 9-12) attended;
4. an official ACT/SAT assessment score report if applicable.

GED completion students admitted to WSC may be required to enroll in transitional courses to prepare the student for academic success at WSC.

#### ***Home Schooled Students***

A freshman applicant who obtains his or her high school education through home schooling is eligible for admission to WSC. To be considered for admission, the student must submit the following items to the WSC Office of Admissions:

1. the completed application for admission and the application processing fee;
2. high school transcripts from all high schools (grades 9-12) attended, including home school.

#### ***International Students***

Wayne State College offers international student admission through the F-1 student Program. International students wishing to be admitted to WSC must submit the following: the completed international application for admission form, the application processing fee of \$30.00 (U.S. currency), one passport-size photograph, academic records with official English translation, official evidence of required English language skills (i.e., TOEFL, IELTS, or comparable test score reports), an official score report for any required standardized test for graduate study (GRE or GMAT), letter of recommendation, 300-500 word handwritten statement of educational intent, statement of educational interests, and evidence of financial support. Completed application for admission deadlines for international students applying for admission to WSC are as follows:

Fall term	June 1
Spring term	October 1
Any summer term:	March 1

All required application materials must be received by the WSC Office of Admissions by the appropriate deadline, as noted above, in order to allow mailed materials to reach the proper destination for timely visa applications.

International students attending WSC must be continually enrolled in a WSC approved health insurance policy that includes

medical evaluation and treatment as well as repatriation benefits. If the student does not have such coverage the institution will help him/her obtain the proper insurance.

International students accepted by WSC may enter the United States with a student F-1 Visa. In accordance with U.S. Immigration Law I-20 for F-1 visas can be issued only to persons who are pursuing a full-time course of study at an American college or university or are participating in an exchange program. Visa inquiries should be addressed to: International Student Advisor, Wayne State College, 1111 Main Street, Wayne, NE 68787.

International students entering WSC as first-time freshmen may be required to enroll in transitional courses to prepare the student for academic success at WSC. Although a student may have a bachelor's degree from a foreign country, the student may not be considered a graduate student, based on the recommendations/reports of professional and certified evaluation services (i.e., Educational Credential Evaluators (ECE), World Education Services (WES), etc.).

### ***Transfer Students***

Transfer students not on current academic suspension from their previous institution(s) are eligible for admission to WSC, provided they have maintained a minimum grade point average of 2.0 or higher (on a 4.0 point scale). Such students are advised to submit the completed application for admission and the application processing fee to the Office of Admissions at WSC. Students must request an official academic transcript from each institution attended. The transcripts must be sent directly to WSC. Transcripts submitted by the student are not official and will not be used for final admission or for evaluation of transfer credit. Appropriate arrangements must be made with the Office of Admissions if this requirement is not met at the time of expected enrollment.

Students currently enrolled in another institution should have an official transcript sent to WSC. This transcript should show work attempted and completed for all terms attended up to that point. The student must also request that the institution send a final official transcript after the current term is completed.

### ***Transfer Students Admitted on Probation***

When deemed appropriate, the Director of Admissions may admit a transfer student with less than a 2.0 transfer GPA. In addition to the official application for admission, such students must also submit a letter describing their plan of action for success upon admission to WSC. The Director of Admissions can request a personal interview to review the plan of action. Full time transfer students admitted on probation must enroll in either GST 110 Succeeding in College or 196 Choosing Academic Success and may take no more than 14 semester hours in the first term of attendance (any exceptions to this policy require advisor approval). The Director of Admissions does not have the authority to waive these conditions. Transfer student applicants with less than a 2.0 transfer GPA who do not agree to these conditions will be denied admission.

Transfer students admitted on probation must complete at least six hours and earn a semester GPA of 2.0 or better in their first term of attendance or they will be academically suspended for one semester.

WSC honors all rules and regulations pertaining to academic suspension at a previously attended institution. Decisions regarding attendance for suspended transfer students who request exceptions will rest with the Student Admission and Retention Committee.

### ***Undergraduate Transient Students***

Transient students are those students not working on a degree program at WSC but taking courses for transfer to another institution. The completed application for admission and the processing fee are required. A verification of good academic standing form needs to be completed by the institution the student is currently attending. High school and college transcripts are not required.

### ***Nebraska Joint Admissions Program***

The Nebraska Community Colleges and the Nebraska State College System united to form the Nebraska State Joint Admission Program to promote access and success for students by means of cooperating programs and services. This program includes: all six Nebraska Community Colleges: Central, Metropolitan, Mid-Plains, Northeast, Southeast, and Western Nebraska Community Colleges and the member institutions of the Nebraska State College System: Chadron, Peru, and Wayne State Colleges.

#### **Acceptance to a College**

The agreement includes the following understandings:

1. Once a student is accepted at a Nebraska Community College, he or she is also accepted at any or all of the four-year member institutions of the Nebraska State College System: Chadron, Peru, and Wayne State Colleges. **AND**
2. Once a student is accepted at a member institution of the Nebraska State College System: Chadron, Peru, or Wayne State Colleges, he or she is also accepted at any or all of the Nebraska Community Colleges. **AND**
3. Once a student is accepted at a member institution of the Nebraska State College System: Chadron, Peru, or Wayne State College, he or she is also accepted at any or all of the institutions in the Nebraska State College System.

## FINANCIAL INFORMATION

### Student Costs

To calculate your total costs you should make sure to include tuition, fees, residence hall room, meal plan and books and supplies. The actual costs for each individual student will vary dependent on a variety of factors including number of credit hours taken, where the student lives while attending college (in a residence hall or off campus), choice of meal plan, and books and supplies. Each student will be notified electronically via their willy e-mail account that they have a new Statement of Account available on Wildcats Online which will list their actual costs before the beginning of each semester. Financial Aid is subtracted from your total costs, to determine any remaining amount you might owe to WSC or the amount of Financial Aid refund you will receive. Wayne State College provides several payment options for students and/or parents; this information is listed following this Student Costs section.

The costs listed below are those in effect for the 2009-2010 academic year and will change beginning in the 2010 Fall Semester. Please visit our website at [www.wsc.edu](http://www.wsc.edu) or call us toll free at 1-800-228-9972 for updated cost information. Please note that all costs can be subject to change by the Board of Trustees of Nebraska State Colleges at any time.

### 2009-2010 Tuition (per credit hour)

Undergraduate Resident Rate	\$122.50
Undergraduate Special Rate	\$183.75
Undergraduate Non-Resident/Full Rate	\$245.00

Graduate Resident Rate	\$155.50
Graduate Special Rate	\$233.25
Graduate Non-Resident/Full Rate	\$311.00

Wayne State College has three tuition rates:

**Resident Rate:** If you are a resident of Nebraska; or qualify for the Non-Resident Scholars Program; or if you live in another state but your parents work in Nebraska.

**Special Rate:** If you live in Iowa, Kansas, Michigan, Minnesota, Missouri, North Dakota or Wisconsin.

**Non-Resident/Full Rate:** If you live in any other state or are an international student.

Please contact the Office of Admissions at 1-800-228-9972 if you have questions on which tuition rate is applicable to you.

**Undergraduate Students:** Undergraduate students take an average of fifteen credit hours per semester or thirty credit hours per academic year. Undergraduate tuition rates are charged for courses numbered 100-499.

**Graduate Students:** Graduate students take an average of nine credit hours per semester; or eighteen credit hours per academic year. Graduate tuition rates are charged for courses numbered 500-799.

### Sample of Undergraduate Student Annual Expenses

The summary below gives a general idea of typical expenses for the 2009-10 academic year under the following assumptions the student is enrolled for 15 credit hours in each of two semesters and lives in a WSC residence hall in a double room with a 15-meals-per-week meal plan. Please note that students living in WSC residence halls are required to purchase a college meal plan.

Expenses	Resident	Special	Non-Resident/Full
Tuition (30 credit hours/year)	\$ 3,675.00	\$ 5,512.50	\$ 7,350.00
Fees	\$ 1,129.50	\$ 1,129.50	\$ 1,129.50
Room & Meal Plan (15 meals/week)	\$ 5,280.00	\$ 5,280.00	\$ 5,280.00
<b>Direct Estimated Costs</b>	<b>\$ 10,084.50</b>	<b>\$11,992.00</b>	<b>\$13,759.50</b>
Living Expenses & Books	\$ 3,265.00	\$ 4,090.00	\$ 4,090.00
(estimated cost - varies each semester)			
<b>Total Cost For One Year</b>	<b>\$13,345.50</b>	<b>\$16,012.00</b>	<b>\$17,849.50</b>

In addition, there are costs that occur once, occasionally, or optionally, such as the admission application processing fee, graduation fee, deposits, fines (parking, library, etc.) and late payment fees.

### Textbooks

New and used textbooks may be purchased from the college bookstore, located in the Student Center. The cost of new textbooks will average about \$500 per semester. The bookstore buys back used textbooks which are in good condition and which are to be used in courses the next semester. Purchasing used books can significantly reduce the total cost of textbooks. Book vouchers are available from the Financial Aid Office to students with excess financial aid. The books are then charged to the student's account with the amount deducted from financial aid.

### Payment Options

Students become obligated and agree to pay all academic charges when they register for each term. Students are personally responsible to pay for all charges not covered by awarded financial aid or third party organizations by the designated due date

or non-payment fees may apply. Charges include tuition, fees, room, meal plans, and all other fees that may be assessed. These charges are subject to refund only to the extent allowed under Wayne State College's Tuition Refund Policy (this policy is located below and at [www.wsc.edu](http://www.wsc.edu)). Each student should complete and sign a Billing Authorization/Payment Agreement available from Business Services or on the Wayne State College website. Wayne State College can only release a student's account information to those persons specifically listed on the Billing Authorization/Payment Agreement.

Specific payment due dates are published for each semester by the Business Services Office. Typically, all amounts due for a semester are to be paid in full on or before the sixth day of classes (2nd day of the summer term). Any charges to the student's account after the sixth day of classes (2nd day of the summer term) are due immediately. This includes charges due to dropping or adding a course, fines or other fees or charges. Wayne State College does accept enrollment in the WSC Payment Plan as payment in full; see more information on this payment option below. If you cannot make payment in full on or before the sixth day of classes (2nd day of the summer term) due to pending financial aid or other issues please contact the Business Services Office directly at 402-375-7224 to make acceptable payment arrangements.

If payment of tuition and fees is not made as required, Wayne State College reserves the right to assess non-payment or other fees, cancel student's registration/enrollment (administrative withdrawal), residence hall and meal plan, and/or place a hold on all student records. If a student is administratively withdrawn, a \$100 reinstatement fee will be added to the student's account and the student must obtain their instructors' approval to be reinstated into classes. An appeal for administrative withdrawal reinstatement must be granted before the end of the next regular semester. Wayne State College accepts the following forms of payment: Cash or check; e-check; Credit Card (MasterCard, Visa, Discover); WSC Payment Plan (see more information below); Financial Aid (federal or state); Third Party Billing (see more information below). Contact Business Services at 402-375-7224 to discuss any other payment arrangements.

### **Statements of Account**

Wayne State College Business Services will send notification monthly to students (via their willy e-mail account) as long as there is an account balance due. Statements of Account are also available via internet through Wayne State College's Wildcats Online system. The Statements of Account itemizes the student's financial obligation to Wayne State College including tuition, fees, and other charges that may occur from time to time. The Statement of Account also lists any credits due the student for the current semester, such as for financial aid or payments received. Except as otherwise agreed under applicable payment plans, payment is due on the specified due date. Non-payment and late fees will apply to all accounts not paid in full by the due date.

### **Wayne State College Payment Plan**

Students may pay in installments by signing up for the various options under the Nelnet payment plan. This plan provides easy online enrollment and flexible monthly payment plan options with no interest. There is a fee to enroll in this plan. Nelnet accepts automatic bank payments and payment by credit card/debit card. For more information or additional help you can call Wayne State College Business Services at 402-375-7224 or Nelnet at 800-609-8056.

### **Third Party Billing**

Wayne State College also accepts payments from outside sources that have formally agreed to pay tuition and fees for an eligible student. These organizations include, but are not limited to the Veterans Administration, Vocational Rehabilitation, National Guard, and Americorp. Contact Business Services for more information.

## ***Refund Schedule***

Refunds are made according to the following schedule for **complete withdrawal from college** (not for each individual course). **Fees are non-refundable after the 100% refund period.**

<b>Tuition Refund Amount</b>	<b>Fall &amp; Spring Semesters</b>	<b>May Session (3 wks)</b>	<b>June &amp; July Sessions (5 wks)</b>
100% Refund	During Weeks 1 & 2	During Days 1 & 2	During Days 1 & 2
50% Refund	During Weeks 3 & 4	During Day 3	During Days 3 & 4
25% Refund	During Weeks 5 - 8	During Days 4 - 7	During Days 5 - 9
No Refund	After 8th Week	After the 7th Day	After the 9th Day

**When a student withdraws completely from Wayne State College, federal financial aid such as Pell Grant or Stafford Loans may have to be returned to the government and result in the student owing a bill to Wayne State College.**

During the official period when classes may be added or changed, all tuition and fees for hours dropped will be refunded. The final date of this period is published in the class schedule each semester and summer session and is strictly followed. After this period, the refund schedule applies only in the event of complete withdrawal from college. After fee payment, room and meal plan charges will not be refunded to a student who relinquishes a residence hall room before the end of a contract period. If a student withdraws completely from Wayne State College, room and meal plan charges will be prorated through the last day of the week in which the student officially moves out of the residence hall.

## RESIDENCY CLASSIFICATION

**WSC Students must meet one of the following criteria to qualify for Residency for tuition purposes. An official application and supportive documentation is required. Contact the Office of Records and Registration for details. Applications and all supportive documentation is due one week before classes begin.**

- A. Legal age (19+ years old). Or an emancipated minor, and have resided in Nebraska for a period of at least (180 days - 6 months) prior to applying.
- B. Emancipated minor (less than 19 years old). Copy of parents'/guardian's most recent federal tax return.
- C. Not of legal age—Dependent of parents/guardian living in Nebraska.
- D. Legal age—Dependent of parents/guardian living in Nebraska.
- E. Marriage to a Nebraska resident.
- F. Non-U.S. citizen. Complete Section III and check Immigration Service
- G. Undocumented alien. Provide proof of applying to or having petition pending with U.S. Immigration and Naturalization Service if process has begun. Provide evidence of having graduated from an accredited Nebraska high school or equivalent.
- H. Permanent full-time employee (or dependent/spouse) of a Nebraska postsecondary institution.
- I. Active duty military or dependent/spouse.
- J. Former resident of Nebraska. The 180-day period of residence is waived.
- K. Resident of contiguous state working full time in Nebraska and has paid Nebraska income tax for most recent year or legal dependents of such resident.
- L. Nonresidents working who pay Nebraska Income Tax, as well as their spouse and legal dependents.

## STUDENT FINANCIAL AID

To be considered for financial aid at WSC, students are required to file the Free Application for Federal Student Aid (FAFSA) each academic year. Students are encouraged to complete the FAFSA online at [www.FAFSA.ed.gov](http://www.FAFSA.ed.gov). Priority deadline is April 1.

WSC participates in these federal aid programs: Federal Pell Grant, Federal Work-Study, Federal Perkins Loan, Federal Supplemental Educational Opportunity Grant, Academic Competitiveness Grant, National SMART Grant, TEACH, Federal Stafford Loan and Federal Parent Loan for Undergraduate Students. WSC also participates in the Nebraska State Grant Program through the State of Nebraska. Because Federal regulations are constantly changing, official financial aid information is available through the WSC Financial Aid Office or on our website: [www.wsc.edu/financial\\_services/](http://www.wsc.edu/financial_services/).

The WSC Financial Aid Satisfactory Academic Progress Policy is published annually in the WSC Student Handbook and is available on the WSC website at [www.wsc.edu/financial\\_services/](http://www.wsc.edu/financial_services/). Students should become familiar with the policy and review it annually as revisions do occur.

The satisfactory academic progress policy, which allows a student to remain in school, differs from the policy that allows a student to remain on financial aid. See the academic probation/suspension policy in the undergraduate studies section of the catalog.

### ***Summer Aid***

Financial assistance is primarily designed to help the student attend college during the regular academic year from August to May. There is limited money available for summer study. To be considered for summer aid you must be eligible for aid based on the preceding year's FAFSA and submit a WSC Financial Aid Information Sheet for summer to the Financial Aid Office by April 15<sup>th</sup> of the current year. The information sheet will be available in the Financial Aid Office and online at [www.wsc.edu/financial\\_aid/](http://www.wsc.edu/financial_aid/) when registration opens.

### ***Scholarships***

Scholarships administered by WSC are available in limited number to those students judged by the schools and/or the Scholarship Committee to be best qualified. The awards are based on past achievement and promise of future academic success. The entire listing of scholarships and the application can be accessed from our website at [www.wsc.edu/financial\\_services/](http://www.wsc.edu/financial_services/).

### ***Graduate Financial Assistance***

Federal Stafford Loans are available to graduate students at WSC. Students are required to file the Free Application for Federal Student Aid (FAFSA) and must be enrolled at least half-time (5 credit hours per semester for a master's degree program; 6 credit hours per semester for a second undergraduate degree or endorsement program). Hours must be approved coursework that applies to the student's program of study. The FAFSA can be completed online at [www.FAFSA.ed.gov](http://www.FAFSA.ed.gov).

The WSC Financial Aid Satisfactory Academic Progress Policy is published annually in the WSC Student Handbook and is available on the WSC website at [www.wsc.edu/financial\\_services/](http://www.wsc.edu/financial_services/). Students should become familiar with the policy and review it annually as revisions do occur.

A very limited number of scholarships are also available. For a listing and an application, visit our website at: [www.wsc.edu/financial\\_services/](http://www.wsc.edu/financial_services/).

### ***Graduate Teaching Assistantships***

WSC is authorized to award Graduate Assistantships in each graduate major field. These assistantships provide a stipend for the academic year, plus tuition, and permit the holder to enroll for no more than nine (9) credit hours of graduate course work while completing a teaching or non-teaching assignment. The load for a student assigned to an academic area will be a) teaching the equivalent to six (6) credit hours at the undergraduate level, or b) providing non-teaching program assistance, approximately 16-20 clock hours, or c) completing an equivalent combination of teaching and non-teaching assignments. The load for a student assigned to a non-academic area will be determined by the appropriate Vice President.

Consideration for Graduate Assistantships is given only to applicants who plan to earn the graduate degree at WSC. Candidates must have an above average scholastic record and appropriate recommendations. Prior teaching experience is preferred.

Applications for the assistantships must be submitted to the Graduate Office at the College by April 1 for the following school year. The assistantships awarded for the following year will be announced during the spring semester.

### ***Financial Aid Satisfactory Academic Progress Policy***

Federal financial aid regulations require financial aid recipients to make satisfactory academic progress toward the completion of a degree. In order to be awarded and retain financial aid, recipients must comply with the following three requirements. We will evaluate the progress toward the degree at the end of every semester.

1. Students must maintain “acceptable academic standing” as defined by the College’s Probation/Suspension Academic Action Policy which can be found in the WSC General and Graduate Catalog. In addition,

- a) If a student is placed on academic suspension, s/he is automatically placed on financial aid suspension.
- b) Students may be suspended from financial aid but not suspended academically, based upon financial aid satisfactory progress credit hour requirements.
- c) Transfer students admitted on academic probation will also be placed on financial aid probation.

2. Students must successfully complete (see below) an established number of attempted credit hours each semester based on the financial aid status for which they are paid in order to maintain future eligibility. All summer sessions jointly are considered one term. The following tables display the relationship between hours attempted, hours completed, and financial aid eligibility for a single term:

#### **Undergraduate Students**

Enrollment Status	Hours Attempted	Hours Completed Good Standing	Hours Completed Probation	Hours Completed Suspension
Full-time	12 or more	12	9-11	0-8
3/4 time	9-11	9-11	6-8	0-5
1/2 time	6-8	6-8	3-5	0-2
<1/2 time	1-5	1-5	75%	less than 75%

#### **Graduate Students**

Enrollment Status	Hours Attempted	Hours Completed Good Standing	Hours Completed Probation	Hours Completed Suspension
Full-time	9 or more	9	7-8	0-6
3/4 time	7-8	7-8	5-6	0-4
1/2 time	5-6	5-6	3-4	0-2

Successfully completed credit hours include letter grades of A, B, C, D or S. Credit hours that will not count as successfully completed include letter grades of NC (No Credit), F (Fail), I (Incomplete), W (Withdrawal), and IP (In Progress). AU (Audit), credit by exam (i.e. CLEP), and repeats of successfully completed credits will not be considered in the hours attempted and may not be used in determining enrollment status for financial aid purposes. When Incomplete and In Progress grades are officially changed by the instructor, the student must inform the Financial Aid Office if s/he wishes to be re-evaluated for Satisfactory Academic Progress.

3. Students may receive financial aid toward their degree up to a maximum timeframe for the particular program as follows:

**1st Undergraduate Bachelor’s degree** - Financial aid recipients may not exceed 187 attempted credit hours toward their first bachelor’s degree. Attempted hours are defined as all attempted credit hours in which students enroll that are reflected

on their academic record. Transfer students will include those hours accepted by the Records and Registration Office from all previously attended institutions.

**Graduate and Specialist degrees** - Financial aid recipients may not exceed 125% attempted credit hours toward either a graduate or specialist degree. Attempted hours are defined as all credit hours attempted toward the sought degree and that are reflected on the student's academic record.

**2nd Undergraduate Bachelor's degree** - Financial aid recipients seeking a second bachelor's degree are required to complete a credit evaluation through the Records and Registration Office in order to receive financial aid. Copies of the credit evaluation must be submitted to the Financial Aid Office for eligibility determination. Students seeking the second bachelor's degree may not exceed 125% credit hours toward the second Bachelor's degree.

**Initial Endorsement/Initial Teaching Certificate/Recertification** - Students seeking an initial endorsement, initial teaching certificate or recertification may not exceed the required credit hours for the endorsement, certificate or recertification.

**Additional endorsements/majors** - Students seeking to add an additional endorsement or major to their current degree are not eligible for financial aid as this academic criteria is not considered certificate or degree seeking.

**PROBATION:** Students placed on financial aid probation remain eligible to receive financial aid under most programs for the next period of enrollment. However, during the probationary status, students are required to successfully complete at least 12 credit hours if paid as full-time, at least 9 credit hours if paid as three-quarter-time, at least 6 credit hours if paid half time, and at least 3 credit hours if paid less than half time. Failure to successfully complete the attempted enrollment status and/or earn the minimum GPA required under the college's Probation/Suspension Academic Action policy while on financial aid probation will result in financial aid suspension.

**SUSPENSION:** Students placed on financial aid suspension are ineligible to receive any financial aid for the next period of enrollment. To regain financial aid eligibility, a student is required to pay with their own resources and successfully complete at least 50% of the enrollment status of the term which resulted in suspension using their own resources.

**NOTIFICATION:** The Financial Aid Office will notify a student via campus e-mail if s/he is not maintaining Satisfactory Academic Progress.

**APPEALS:** Students may appeal their financial aid suspension if they believe extenuating circumstances interfered with their ability to maintain Satisfactory Academic Progress. Appeal forms are available from the Financial Aid Office and must be submitted no later than the deadline date provided in the notification. If aid is not reinstated, the student may then appeal to the Student Admission and Retention Committee.

In order to qualify for state and federal financial aid beyond the 60th earned credit hour at Wayne State College, students must be enrolled in and have officially declared a major program of study. The only exception to this policy is first semester transfer students admitted on probation, due to institutional admission policies affecting these students. Students who do not meet this requirement will need to declare a major or be subject to financial aid suspension.

For additional information please contact the Wayne State College Financial Aid Office at 800-228-9972, ext. 7230, or by e-mail at [finaid1@wsc.edu](mailto:finaid1@wsc.edu).

## UNDERGRADUATE STUDIES

WSC offers programs of study which lead to a Bachelor of Arts or Bachelor of Science degree. With the assistance of an advisor, students select a program of study and complete General Education requirements. Students who wish to teach work with an advisor to select either one field endorsement or two subject endorsements (only one subject endorsement, English, stands alone) and complete General Education requirements.

Students who are unsure of which program of study they are interested in should seek the assistance of advisors in the Advising Center.

On the following pages students will find information on graduation requirements, programs of study, definitions, and rules regarding academic programs of study.

### ***General Education Requirements***

#### **Philosophy**

General Education forms the foundation of learning at Wayne State College. Drawing from disciplines across the campus, the General Education program of study fosters intellectual inquiry, personal and professional development, and responsible citizenship as lifetime endeavors.

The General Education program represents a vital, diverse liberal arts approach to the student's undergraduate experience, creating a common framework for more specialized study within a student's major.

#### **General Education Goals**

General Education at Wayne State College seeks to achieve the following goals:

- **Develop expression** - Foster communication skills that facilitate effective expression of ideas; (e.g. writing, speaking, reading, listening, and visualizing).
- **Participate in methods of inquiry** - Advance ideas and concepts through applied critical, logical, scientific, and creative thinking skills and processes.
- **Expand knowledge** - Enhance awareness, understanding and appreciation of complex issues and diverse perspectives across a broad range of academic disciplines.
- **Encourage civic involvement** - Develop a sense of civic responsibility and involvement in a diverse society.

#### **General Overview of Program**

Students will complete a minimum of 44 credit hours distributed over four blocks of courses.

**BLOCK 1** ..... **6 hours**

Communication: ..... 6 hours

**BLOCK 2** ..... **Minimum of 11 hours**

Mathematics:.....Minimum of 3 hours

Wellness: .....Minimum of 2 hours

Natural Sciences: .....Minimum of 6 hours

**BLOCK 3** ..... **Minimum of 24 hours**

Literary, Performing, and Visual Arts: ..... Minimum of 6 hours

History and Social Sciences: ..... Minimum of 9 hours

World History:..... 3 hours

Social Sciences:..... 6 hours

Philosophy and Modern Languages..... Minimum of 3 hours

Block 3 Electives: ..... Minimum of 6 hours

**BLOCK 4** ..... **3 hours**

Educated Perspective Seminar:.....3 hours

**Total General Education hours**

**Minimum of 44 Hours**

#### **Special Requirements**

All students, including transfer students, graduating from WSC must complete at least one Educated Perspective Seminar (EPS 300).

Students must complete 60 hours, including at least 30 hours of General Education courses, before registering for EPS 300. An EPS 300 course cannot count towards a student's major or endorsement.

Students may petition the Registrar to retake an EPS 300 course of any topic to replace a grade of C– or below. The grade earned in repetition will stand.

Students can apply no more than two General Education courses toward a non-teaching major.

**Several majors and/or endorsements require course work of higher level or designated course number to meet specific General Education requirements.** Refer to specific program descriptions in this catalog for identification of these courses.

**BLOCK 1 .....6 Hours**

**COMMUNICATION: 6 Hours**

Effective communication skills are foundational to success in all academic disciplines and, more broadly, to effective participation in contemporary society. Communication courses provide essential instruction and practice in developing writing, speaking, reading, listening and critical thinking skills.

Learning Objectives	Course Options
<ul style="list-style-type: none"> <li>• Expand knowledge of the elements of oral and written communication</li> <li>• Construct and competently deliver oral and written messages to diverse individuals and audiences</li> <li>• Learn to listen and read critically to understand and evaluate the communication of others</li> </ul>	<p>Students must take the two listed courses:</p> <p>CNA 100 Principles of Human Communication (3)                      ENG 102 Composition Skills (3)</p>

**BLOCK 2 .....Minimum of 11 Hours**

**MATHEMATICS: 3 Hours Minimum**

The mathematical sciences provide opportunities to gain understanding and deeper insight of mathematics and its influences in all aspects of life. Understanding the logic and nature of mathematics, together with its applications, provides a stronger foundation for making well-informed judgments and decisions.

Learning Objectives	Course Options,
<ul style="list-style-type: none"> <li>• Understand mathematics in context, drawing examples from areas such as mathematical modeling, data analysis, quantification of the uncertain and the unknown, and analysis of the infinite</li> <li>• Develop persistence and skill in symbolic manipulation, exploration, conjecture, generalization, and logical reasoning as applied to problem solving</li> <li>• Process, evaluate, and communicate mathematical concepts with understanding and clarity</li> </ul>	<p>Students must take one of the listed courses:</p> <p>MAT 110 Topics and Ideas in Mathematics (3)                      MAT 121 College Algebra (3)                      MAT 130 Pre-Calculus (5)                      MAT140 Calculus I (5)                      MAT 180 Applied Probability and Statistics (3)                      MAT 210 Mathematics for Elementary Teachers I (3)</p>

**WELLNESS: 2 Hours Minimum**

Wellness provides opportunities to assess physical fitness, nutrition, and health information with the aim to develop programs and foster lifestyle changes designed to achieve optimal health and well-being. Because wellness has a significant impact on all aspects of life, it is essential to understand its importance and to develop strategies to maintain wellness throughout the lifespan.

Learning Objectives	Course Options
<ul style="list-style-type: none"> <li>• Understand the relationship between healthy lifestyle choices and prevention of chronic disease</li> <li>• Competently assess, evaluate, and develop personalized programs designed to improve and maintain core areas associated with health and wellness</li> <li>• Access accurate health information and health-promoting practices, products, and services</li> </ul>	<p>Students must take one of the listed courses:</p> <p>PED 103 Lifestyle Assessment (2)                      FCS 207 Nutrition (3)</p>

**NATURAL SCIENCES: 6 Hours Minimum**

The natural sciences provide opportunities to gain a broader understanding of the world and universe from the perspective of factual observation and interpretation of matter and life. Our future will, in part, be dictated by our understanding and utilization of the physical and biological processes that govern our planet and universe.

Learning Objectives	Course Options
<ul style="list-style-type: none"> <li>Understand what science is and how it is conducted</li> <li>Expand breadth and depth of knowledge in the life and physical sciences</li> <li>Examine the impact of science through historical, current and future perspectives</li> </ul>	<p>Students will select one course from each of the following two categories:</p> <p><u>Physical Sciences:</u>            PHS 102 Physical Science Today (3)            EAS 110 Introduction to Meteorology (4)            EAS 120 Introduction to Geology (4)            EAS 250 Discover Astronomy (3)            PHY 201 &amp; 321 General Physics &amp; Lab (4)            PHY 301 &amp; 321 University Physics I &amp; Lab (5)            NAT 281 Physical Sciences for Elementary Education (3)            CHE 106 General Chemistry I (4)</p> <p><u>Life Sciences:</u>            BIO 102 Biology for General Education (3)            BIO 104 Environmental Concerns for General Educatn (3)            BIO 110 Biology Concepts (4)            BIO 280 Biology in Society - Honors (3)            NAT 280 Life Sciences for Elementary Education (3)</p>

**BLOCK 3 ..... Minimum of 24 Hours****LITERARY, PERFORMING & VISUAL ARTS: 6 Hours Minimum required – may take up to 9 Hours**

A study of the Literary, Performing and Visual Arts is integral to understanding and appreciating the aesthetic aspects of the human experience. The arts provide a range of aesthetic experiences and opportunities to foster creative processes of inquiry and analysis of artistic achievements.

Learning Objectives	Course Options
<ul style="list-style-type: none"> <li>Understand the aesthetic experience as it applies to the arts in various cultures</li> <li>Analyze the form, content, and historical significance of various creative works</li> <li>Evaluate artistic and creative practices using a variety of methods, materials and/or processes</li> </ul>	<p>Students will select at least two courses from at least two of the following categories. An additional course may be selected from any category as a Block 3 elective.</p> <p><u>Art:</u>            ART 102 The Visual Arts Experience (3)</p> <p><u>Music:</u>            MUS 110 Topics in Music (3)</p> <p><u>Literature:</u>            ENG 202 Poetry Workshop (3)            ENG 203 Fiction Workshop (3)            ENG 250 Topics in Literature (3)            ENG 260 Studies in Genre (3)            ENG 280 Themes and Movements in Literature (3)</p> <p><u>Theater:</u>            CNA 101 Introduction to Theater (3)</p>

**HISTORY & SOCIAL SCIENCES:** 9 Hours Minimum required – may take up to 15 Hours

History and the Social Sciences are devoted to the study of humans and their societies and cultures. Each of the disciplines provides content, conceptual frameworks, and methods to assess, analyze, and understand the complexities and diversity of our social worlds throughout time. A sense of the social dimensions of the human experience prepares individuals for global citizenship and participation in the social structures in which they operate.

Learning Objectives	Course Options
<ul style="list-style-type: none"> <li>• Enhance knowledge of political, historical, social, economic, cultural, psychological and/or geographic foundations of social structures, institutions, and societies</li> <li>• Examine and assess social interactions, situations and settings using the methods of the various social sciences</li> <li>• Apply historical and/or social science concepts and theories to analyze human behavior in diverse cultural and/or global contexts</li> </ul>	<p>Students will select courses from both History and the Social Sciences as indicated (two additional courses may be taken as Block 3 electives):</p> <p><u>History:</u>  <i>(3 hrs from HIS 120, HIS 170, or HIS 171 required)</i>            HIS 120 World History (3)            HIS 150 History of the U.S. (3)            HIS 170 World Civilization I (3)            HIS 171 World Civilization II (3)            HIS 180 The American Experience I (3)            HIS 181 The American Experience II (3)</p> <p><u>Social Sciences (6 hours required):</u>  <i>Select a minimum of two courses from at least two different prefixes</i>            ECO 202 Principles of Macroeconomics (3)            ECO 203 Principles of Microeconomics (3)            GEO 120 World Regional Geography (3)            POS 100 American National Government (3)            POS 110 Introduction to World Politics (3)            PSY 101 General Psychology (3)            SOC 101 Introduction to Sociology (3)            SOC 110 Introduction to Anthropology (3)</p>

**PHILOSOPHY AND MODERN LANGUAGES:** 3 Hours Minimum required – may take up to 10 Hours

**PHILOSOPHY**

Philosophy seeks answers to fundamental questions about the nature and purpose of existence, the possibility of knowledge, and the values that guide people's actions. The study of philosophy examines how philosophers from the past have answered these questions, and develops abilities to analyze and respond to philosophical arguments and questions.

Learning Objectives	Course Options
<ul style="list-style-type: none"> <li>• Understand philosophical inquiry and argument</li> <li>• Think critically about the ideas of prominent philosophers</li> <li>• Apply philosophical perspectives to contemporary issues</li> </ul>	<p>Students will select one course from either the Philosophy or Modern Languages categories. No more than two courses from either category will count toward General Education credit.</p> <p>PHI 101 Introduction to Philosophy (3)            PHI 300 Ethics and Values (3)</p>

**MODERN LANGUAGES**

Language is a fundamental feature of human culture. Modern language study broadens one's knowledge of other cultures, deepens one's understanding of language, and enhances one's ability to communicate in a multi-lingual society.

Learning Objectives	Course Options
<ul style="list-style-type: none"> <li>Understand basic grammar and vocabulary in a non-English language</li> <li>Develop basic abilities to write and converse in a non-English language</li> <li>Understand the cultural contexts of a non-English language</li> </ul>	<p>Students will select one course from either the Philosophy or Modern Languages categories. No more than two courses from either category will count toward General Education credit.</p> <p>FRE 110 Elementary French I (3)            GER 110 Elementary German I (3)            GER 120 Elementary German II (3)            MLC 110 Elementary Language I (3)            SPA 110 Elementary Spanish I (3)            SPA 119 Spanish for Law Enforcement Personnel (3)            SPA 120 Elementary Spanish II (3)            SPA 210 &amp; 215 Intermediate Spanish I &amp; Lab (4)            SPA 220 &amp; 215 Intermediate Spanish II &amp; Lab (4)</p>

**BLOCK 3 ELECTIVES ..... 6 Hours**

*Students will select a minimum of 6 hours from Block 3 as General Education electives.*

Literary, Performing and Visual Arts ..... up to 3 hours  
 History and Social Sciences ..... up to 6 hours  
 Philosophy ..... up to 3 hours  
 Modern Languages ..... up to 4 hours

**BLOCK 4 ..... 3 Hours****EDUCATED PERSPECTIVE SEMINAR: 3 Hours**

In order for students to conceptualize the integration of disciplines within the liberal arts perspective and to utilize the knowledge and skills emphasized in the General Education program, courses in this category will incorporate knowledge, concepts, and philosophies across various disciplines by examining a topic of interest pertinent to today's citizens. Students from a variety of majors will come together in each course bringing the perspectives advanced in their majors to the discussions and assignments.

Learning Objectives	Course Options
<ul style="list-style-type: none"> <li>Expand communication skills</li> <li>Develop further competence in investigative processes</li> <li>Increase awareness in human understanding by examining topics from a variety of perspectives</li> <li>Enhance awareness of one's role in a civic society</li> </ul>	<p>EPS 300 Educated Perspective Seminar</p> <ul style="list-style-type: none"> <li>All students, including transfer students, graduating from WSC must complete at least one Educated Perspective Seminar.</li> <li>Students must complete 60 hours, including at least 30 hours of General Education courses, before taking EPS 300.</li> <li>An EPS 300 course cannot count towards a student's major or endorsement.</li> <li>See current course schedule for available topics.</li> </ul>

The only General Education requirement for transfer students with an AA or AS degree from an accredited Nebraska community college is one Educated Perspective Seminar course, unless specific requirements are a part of the intended major/degree program. This becomes effective upon receipt of an official transcript indicating the completion of the AA or AS degree. All other transfer students must meet all General Education requirements; General Education transfer courses will be considered on a course by course basis.

++**Effective beginning with the Fall 2007 semester (Fall 2008 for transfer students)**, students are placed in the appropriate mathematics course based on their ACT Math scores – see chart below. If a student does not have an ACT Math score, or wishes to challenge their placement, they may take the COMPASS Exam. There is a \$10.00 fee for the challenge exam and it can only be completed once. Based on their placement, students may need to take additional courses as pre-requisites for the mathematics course their major requires. Please see the Mathematics section of this catalog for more details.

If your ACT Math score is above 23 and you want to earn credit in MAT 121 College Algebra, please discuss the College-Level Examination Program (CLEP) with your academic advisor. The math CLEP test must be completed before you complete a higher-level math course. Questions about the CLEP program can be directed to the Counseling Center at 375-7321.

**ACT and COMPASS Placement Scores**

<u>Course</u>	<u>ACT Math Score Range</u>	<u>COMPASS Score Range</u>
GST 102 Beginning Algebra	17 or below	Pre-Algebra or Algebra: below 34
MAT 105 Intermediate Algebra	18 or above	Algebra: 35 and above
MAT 110 Topics and Ideas in Math	19 or above	Algebra: 35 and above
MAT 121 College Algebra	21 or above	Algebra: 45 and above
MAT 130 Pre-Calculus	23 or above	College Algebra: 50 and above
MAT 140 Calculus I*		
MAT 180 Applied Prob and Stats	21 or above	Algebra: 45 and above
MAT 210 Math for El Ed I	19 or above	Algebra: 35 and above

\* Students interested in taking MAT 140 Calculus I must take the COMPASS exam (at no charge). Placement will then be determined based on advising.

**Programs of Study**

**Non-Teaching Programs**

The majors and minors listed below lead to vocations in business, industry, professions, and public service. Students earning majors and minors will elect one of the two undergraduate degrees offered at WSC: the bachelor of arts (BA) or the bachelor of science (BS). The combination of a major and minor, or two majors, must provide the student with at least 48 hours of unduplicated course work to meet graduation requirements. Numbers in parentheses below indicate the following:

1. available only as a 48-57 hour program
2. offered as both a 30-36 hour program or 48-57 hour program
3. offered only as a 30-40 hour program; must complete another major or minor to graduate

**Majors**

Applied Human and Sport Physiology (1)	Early Childhood (1)	Mass Communication
Art	Engineering, Pre-professional	Broadcast Communication (2)
Art (1)	English	Journalism (2)
Graphic Design (1)	English Literature (BA only) (3)	Mathematics
Business Administration	English Writing (3)	Applied Mathematics (1)
Accounting (1)	English Writing & Literature (1)	Pure Mathematics (1)
Advertising (1)	Exercise Science (1)	Music (BA only)
Advisor Approved (1)	Family and Consumer Sciences	General Music (1)
Agri-Business (1)	Family and Consumer Sci. (1)	Industry (1)
Economics (1)	Fashion Merchandising (1)	Performance (1)
Finance (1)	Foods and Nutrition (1)	Political Science (3)
Human Res. Management (1)	Interior Design (1)	Psychology (3)
International Business (1)	Geography (3)	Social Sciences (1)
Management (1)	History (3)	Sociology (3)
Marketing (1)	Human Service Counseling (1)	Spanish (3)
Office Administration (1)	Industrial Technology	Speech Communication
Public Accounting (1)	Construction Management (1)	Communication Studies (2)
Chemistry	Drafting, Planning & Design (1)	Organizational Leadership and Public Relations (2)
Chemical Sciences (1)	Safety Management (1)	Sport Management (1)
Health Sciences (1)	Interdisciplinary Studies (1)	Technology
Computer Information Systems	Life Sciences	Agricultural Occupations (1)
Applied E-Commerce (1)	Biology (1)	Computer Occupations (1)
Networking (1)	Biology / Food Science (1)	Construction Occupations (1)
Programmer/Analyst (1)	Clinical Laboratory Science (1)	Drafting Occupations (1)
Web Analyst (1)	Health Sciences (1)	Industrial Management Occupations (1)
Computer Science (1)	Mortuary Science (1)	Industrial Trades Occupations (1)
Criminal Justice	Respiratory Therapy (1)	Management Services Occupations (1)
Corrections (1)		
Law Enforcement (1)		

**Minors**

Advertising	Criminal Justice	Geography	Physics
Anthropology	Earth Science	History	Political Science
Art	Economics	Industrial Technology	Pre-Law
Art: Advanced Studio	Editing and Publishing	Interdisciplinary Studies	Psychology
Biology	Emergency Management	Journalism	Public Administration
Broadcast Communication	English	Management Info Systems	Safety
Business Administration	Environmental Studies	Mathematics	Social Sciences
Chemistry	Exercise Science	Music	Sociology
Coaching	Family Life Studies	Online Media	Spanish
Computer Info. Systems	Foods and Nutrition	Philosophy	Speech Communication
Computer Science	French		Sport Management
			Theatre

For a listing of Pre-Professional programs, see that section of the catalog.

**Teaching Programs**

Undergraduate students preparing to teach in accredited schools will earn either one field endorsement or two subject endorsements (except the English subject endorsement which stands alone) while working toward the bachelor of arts (BA) or the bachelor of science (BS) degree. Graduate students preparing for initial certification may select from either subject or field endorsements or a combination thereof, but must declare at least one endorsement. Special endorsements may be added to field or subject endorsements as appropriate (see list below). Field and subject endorsements are for teaching in grades 7 to 12 unless otherwise indicated.

The bachelor's degree with college endorsement to teach is required for the Initial Nebraska Teaching Certificate, which is valid for five years.

The Standard Nebraska Teacher's Certificate is based on the Initial Certificate plus two years of successful teaching in the same school in the endorsed field. This certificate is valid for seven years.

Teachers who have qualified for the Standard Nebraska Certificate may receive the Professional Nebraska Certificate by earning a master's degree (in the same area as their Standard Certificate) or the equivalent except in the areas of counseling and administration. The Professional Certificate is valid for ten years.

**Teacher Education Programs at WSC lead to State of Nebraska Teacher Certification only. In those states having reciprocity with the state of Nebraska, students must apply for teacher certification to that respective state to be issued a teaching certificate. WSC does not assume responsibility for teacher certification by states other than Nebraska, but will provide institutional verification that graduates have completed an approved Teacher Education Program. Further, it is the responsibility of the student to complete all state of Nebraska teacher certification requirements before institutional verification of approved program completion will be provided by the WSC Certification Officer. State of Nebraska teacher certification requirements change by legislative or executive actions and may be different than degree program requirements stated in the catalog. Students should contact the WSC Field Experience and Teacher Certification Office directly with all questions or concerns.**

**FIELD ENDORSEMENTS**

Art K-12	Health & Physical Education K-12	Music—Vocal & Instrumental K-12
Business Education	Industrial Technology Education	Natural Science
Early Childhood Education Unified Birth-Grade 3	Language Arts	Physical Sciences
Elementary Education K-8	Marketing Education	Social Sciences
Family and Consumer Sciences/ Family and Consumer Sciences Education	Mathematics	Special Ed.-Mild/Mod Handicapped K-12
	Middle Grades Education 4-9	Trade & Industrial Education

**SUBJECT ENDORSEMENTS**

Basic Business	Journalism & Mass Communication	Physical Education 7-12
Chemistry	Life Sciences/Biology	Political Science
Early Childhood	Music, Instrumental—K-8	Psychology
#English	Music, Instrumental—7-12	Sociology
French	Music, Vocal—K-8	Spanish
Geography	Music, Vocal—7-12	Speech Communication
History	Physical Education K-6	Theatre

# Students may graduate with a single subject endorsement in English.

**Special endorsements** available in addition to a field endorsement or two subject endorsements:

Coaching — 18 hours

Diversified Occupations (see Career Education section)

English as a Second Language K-12 — 15 hours (undergraduate and graduate)

Family and Consumer Sciences/Related Occupations (only with completion of Family/Consumer Sci Ed.)

High Ability Education K-12 — 18-21 hours (graduate endorsement only)  
Information Technology - 15 hours (undergraduate and graduate)

## **Academic Definitions & Procedures**

### ***Registration and Academic Advising***

Dates for student registration are specified in the official Schedule of Classes for each term.

An advisor is assigned to each student for assistance in explaining academic requirements and planning the course of study. Final responsibility for meeting all requirements, however, rests with the student. Students, therefore, should study this catalog carefully, for it is the official source of all requirements and regulations.

### ***Wildcats Online***

Students register and drop/add via Wildcats Online from any internet-accessible PC using their Username and Password. Students also access their grades (grade reports are no longer mailed), degree audit, Business Services Office account summary (billing statements no longer mailed), financial aid information, 1098T and unofficial transcript. New features include an online admission application and accept/reject financial aid award letters. With this system, faculty enter mid-term and final grades online.

### ***Credit Hours***

The unit of credit is the semester hour. It is defined as one 50-minute class per week (or its equivalent) for one semester. For example, most three-hour classes meet for three 50-minute periods each week, but some meet for two 75-minute periods a week. Some courses require a laboratory session, where a minimum of two to three hours of laboratory activity is the equivalent of one hour of lecture-discussion.

### ***Classification of Students***

The classification of students is as follows:

Freshmen:	Less than 30 semester hours completed.
Sophomores:	30-59 semester hours completed.
Juniors:	60-89 semester hours completed.
Seniors:	90 semester hours and above completed.
Graduates:	Students who have earned a bachelor's or higher degree from an accredited institution.

### ***Undergraduate Returning Students***

Undergraduate students returning to WSC after an absence of 12 calendar months or more will be required to submit a completed Returning Student Data Form prior to being allowed to enroll for classes. If other postsecondary institutions were attended during the period of absence from WSC, official copies of all transcripts must be submitted to the WSC Office of Records and Registration by the beginning of the third week of classes of the term of re-entry.

Returning undergraduate students who left WSC on probation will re-enter on probation. Students who left WSC in good standing may be placed on academic probation upon return if the GPA in college course work attempted from all other institutions is less than a 2.00. Returning undergraduate students must meet the academic standards in effect for current WSC students concerning periods of suspension from their transfer school or from WSC.

## **Acceptance of College Level Credit**

### ***College or University Transfer Credit***

Students entering WSC with college credit earned elsewhere are given advanced standing classification with ranking determined after an evaluation of such credit by the Office of Records & Registration. Transfer grades are not included in the WSC cumulative grade point calculation. Transfer students are expected to meet all academic requirements of WSC.

A transfer student must have an official transcript of credit sent directly to the Office of Admissions from the Registrar's Office at each collegiate institution previously attended. Official transcripts are required for an accurate evaluation of transfer credit. Transcripts presented directly by the student are not official and will not be used for evaluation of transfer credit. Appropriate arrangements must be made with the Office of Admissions if this requirement is not met at the time of expected enrollment.

Lower level (100, 200) transfer courses which meet upper level (300, 400) requirements do not count toward the 40-hour upper level requirement at WSC.

Credit for a course in which the student earned a grade of "D" is not accepted. Credit for non-college level courses, such as continuing education units, experiential learning, etc., will not be accepted. Developmental/transitional courses (non-college level) will not be accepted toward any WSC degree. Credits by institutional exam from other schools are not accepted for transfer

at WSC. No more than two (2) hours of athletic squad participation can be accepted.

The maximum number of credits accepted in transfer toward the major and/or minor varies, depending on the chosen program of study, and the school. The decision as to applicability of courses will be made by the department chair and approved by the Dean. All students, including transfers, are responsible for fulfilling all degree requirements as outlined in the WSC Catalog.

Transcripts from non-accredited institutions, technical-trade schools, proprietary schools, industry-sponsored schools, etc., are reviewed by the department offering courses similar to the courses stated on the transcripts. The department chair recommends to the Office of Records & Registration which courses or combination of courses to accept in transfer, the semester credit hours to award, and the course equivalency. WSC reserves the right to require successful completion of specific courses and/or up to two semesters of course work at WSC before considering/granting transfer credit from such institutions.

WSC currently has articulation agreements with the following schools: Central Community College, Little Priest Tribal College, Metropolitan Community College, Nebraska Christian College, Nebraska Indian Community College, Northeast Community College, South Dakota School of Mines & Technology and Western Iowa Tech Community College.

### ***Community and Junior College Graduates***

Transfer students who have completed the associate degree program (AA, AS, or pre-approved AAS degree) at an accredited institution are generally admitted with junior standing. A maximum of 66 semester hours of academic credit may be accepted from all previously attended accredited community colleges. An examination may be required before credit is accepted for a course defined by WSC as upper level if it has been taken in a community college.

The only General Education requirement for transfer students with an AA or AS degree from an accredited Nebraska community college is one Educated Perspective Seminar course, unless specific requirements are a part of the intended major/degree program. This becomes effective upon receipt of an official transcript indicating the completion of the AA or AS degree. All other transfer students must meet all General Education requirements; General Education transfer courses will be considered on a course by course basis.

Students who have completed an unarticulated associate of applied science degree may (if they so desire) enter under the regulations governing the Technology or Trade and Industrial Education programs. These are described in the Industrial Technology section of this catalog.

### ***Academic Load***

The average load for undergraduate students is 15 or 16 hours each semester. The maximum without special permission is 18. A student who wishes to register for more than 18 hours should make application to the Office of Records & Registration. A full-time undergraduate student is a person who is enrolled in 12 hours of coursework. A graduate student pursuing an undergraduate program must be enrolled in 12 undergraduate credits or a combination of 12 hours of undergraduate and graduate credits to be considered full-time. A full-time graduate student pursuing a graduate level program of study is one who is enrolled in 9 graduate hours. All summer sessions, combined, are considered a single term in determining enrollment status and financial aid eligibility. The only exception relates to student eligibility for Veteran's benefits.

### ***Class Attendance***

It is expected a student enrolled in a course will attend class regularly. Failure to do so may adversely affect financial aid eligibility and the final grade received.

### ***Changes in Majors or Degree Programs***

The student who transfers from one major field to another, from one field of endorsement to another or from one degree to another must have his/her entire degree program reviewed by the Office of Records & Registration. Changing any part of a student's program (majors, minors, endorsements) to a new catalog will cause the student's entire program (majors, minors, endorsements) to be changed to the new catalog. A student's program (majors, minors, endorsements) must all be from the same catalog. The student must meet all degree requirements and academic regulations of the catalog in force at the time of the change. However, a student who adds an additional major(s) and keeps his/her existing major need not change to the current catalog unless the added major is only available in the current catalog.

Students must earn 12 hours in each two-year period to retain the privilege of continuing on their present programs. Students who fail to earn 12 hours in any two-year period will have to meet the graduation requirements and academic regulations current at the time they re-enroll.

Students who graduate from WSC will follow the catalog in force at the time they return to complete another program.

### ***Course Changes***

Once a student has registered online, he/she is free to drop/add online until the end of the registration period. It is recommended that students consult with their academic advisor prior to dropping and adding classes. Adding closed classes requires signatures from the instructor and Department Chair. Normally, courses cannot be changed after the time period designated in each term's calendar.

### ***Withdrawal from Class***

“CW” (on-campus class withdrawal) will be recorded on the student’s record if he/she withdraws from class with official permission of the Office of Records & Registration. Official withdrawal from a class can be made up to two weeks after mid-semester grades are issued. After this time, official withdrawal will be permitted only if special circumstances beyond the student’s control, such as extended illness verified by a physician’s statement, make it necessary for a student to lighten her/his load. Any unofficial withdrawal will result in a grade of “F”. Check the current class schedule for specific dates.

A student is not considered officially withdrawn from a course until a Change of Schedule form, filled out by the student and carrying the appropriate signatures, is filed in the Office of Records & Registration. Date of filing in that office represents the official date of withdrawal.

Change of Schedule forms may be obtained in the Office of Records & Registration.

### ***Withdrawal from College***

All withdrawals from college must be made officially through the Office of Student Services (see Refund Schedule). Grades of “W” (withdraw) will be recorded for all students who officially withdraw from college prior to the beginning of the final examination period. Official withdrawal from college after this time will be permitted only with the approval of the Vice President for Student Life. Grades of “F” will be given to any student who leaves without officially withdrawing, and a refund will be denied. An application form for withdrawal may be obtained from the Office of Student Services.

### ***Directed Study Courses***

A directed study course is designed primarily to meet special scheduling problems. The objectives and requirements, including examinations, are precisely those of the formal course, as listed in this catalog. The established course outline will be followed as closely as possible. A student may enroll in a directed study course under the following conditions:

1. The student must demonstrate that the need for a particular course is genuine. That is, the student must show that he/she has not evaded the course when it was offered and that his/her normal academic progress will be affected if the course is not immediately offered by directed study.
2. A suitable instructor must be available.
3. The Dean, the appropriate department chair, and the instructor concerned must approve of the arrangement.

The appropriate registration approval card may be obtained at the Office of Records & Registration, Hahn 105 and must be returned to that office with the required signatures in order to be enrolled in the course.

### ***Special Project Courses***

A special project course is designed for the purpose of studying a topic in a special area of interest. A maximum of twelve hours may apply toward a major or endorsement as determined by the appropriate department chair and approved by the Dean. The appropriate card is obtained at the Office of Records & Registration and then returned to that office for enrollment with the required signatures.

### ***Correspondence Courses***

Not more than 16 hours of correspondence study will be allowed toward graduation. Questions about correspondence study will be answered by the Office of Records & Registration. The grade for a correspondence course must be “C” or above to be accepted.

### ***Private Study***

No college credit is allowed for academic work taken by private study or under a tutor. This restriction does not apply to private lessons in music under the direction of the College staff.

### ***Degree Audit***

Students will have online access to their degree audit through their Wildcats Online screens. Advisors can also view advisee’s degree audits through their Web for Faculty screens. An official degree audit may still be obtained from the Office of Records and Registration.

### ***Nebraska Semester Abroad***

In cooperation with Nebraska’s state universities and colleges, WSC participates in the Nebraska Semester Abroad program in Europe. Students are able to take 12 semester hours in the Spring semester (March-May). This program is designed to provide an international living experience as well as being affordable. The classes are taught by professors from Nebraska.

### ***Advanced Placement/Credit by Examination***

**Advanced Placement Program of the College Entrance Examination Board**—A student may be awarded advanced placement and college credit on the basis of scores on the College Entrance Examination Board tests. Students who earn grades

of 3, 4, or 5 may receive credit for corresponding college courses, which are most nearly equivalent to the test, as approved by the department chair of the area concerned, the Dean of the School and the Office of Records & Registration. Contact your high school counselor for further information about enrolling in Advanced Placement (AP) courses and sending official AP scores to WSC.

**CLEP** - In accordance with the recommendations of the American Council on Education, WSC accepts the results of the College Level Examination Program (CLEP) for specific exams. If credit is earned after a student has achieved senior class status at WSC, only 6 of the last 30 baccalaureate hours may be completed through the use of such CLEP credit. WSC grants CLEP credit within these limitations:

**General Examinations (College Mathematics, Humanities or Natural Sciences examination only)**

1. The examinee must meet the minimum A.C.E. recommended score equivalent to a grade of "C".
2. Six hours of credit normally will be granted for successful completion of the Humanities general examinations.

**Subject Examinations**

1. The examinee must meet the A.C.E. recommended score equivalent to a grade of "C" on all recognized subject examinations. The subject examination in English will require an essay. To earn credit in biology and chemistry the student must achieve the minimum scores and meet with the appropriate department chair or Dean concerning lab requirements.
2. The credit hours granted shall be the same amount granted for the completion of a similar course at WSC.

The CLEP brochure contains updated scores and policies regulating CLEP credit accepted toward graduation at WSC. Please contact the Counseling Center at 402-375-7321 for the current brochure which lists additional regulations.

**DANTES (Defense Activity for Non-Traditional Education Support)** – Service personnel may receive credit for the same CLEP exams through DANTES as we accept through The College Board and Educational Testing Service. In order to be granted the appropriate CLEP credits, service personnel must meet all regulations as listed above including earning the minimum A.C.E. recommended scores as listed in our CLEP informational brochure. WSC academic departments have not evaluated the various DANTES Subject Standardized Tests (DSST's), so those tests are not currently accepted as credit.

**Departmental Advanced Placement Credit** An academic department of WSC may allow advanced placement credit for a course in that department. The student must pay a \$10 per credit hour fee.

**Credit by Institutional Examination** A currently enrolled WSC student is eligible to challenge a course for which s/he is not enrolled. The student must complete the exam within the semester for which it is requested. The fee for the Credit by Exam is \$10 per credit hour attempted.

A student may not take an examination for credit in any course which (1) is a prerequisite for a course already completed, (2) has a lower level of required proficiency than a course completed, (3) involves content significantly similar to a course completed, or (4) the student has previously earned a grade. Credit earned by examination is applicable toward degree requirements and is entered on the student's record. If a student challenges a course unsuccessfully, he/she may not repeat the challenge for at least 12 months.

The department chair must approve the exam. The appropriate forms and instructions are available from the Office of Records & Registration.

Credits by institutional exam from other schools are not accepted for transfer at WSC.

***WSC/USD Joint ROTC Program Credit***

WSC students are eligible to participate in the University of South Dakota ROTC program, upon approval of appropriate USD personnel. WSC has agreed to accept in transfer from the University of South Dakota, up to 22 credit hours of ROTC instruction for qualified students. This credit may be used as general elective credit in any WSC undergraduate degree program. Specific ROTC course descriptions may be found in the "Special Undergraduate Courses" section of this catalog. For further information contact the Office of Records & Registration at WSC (402-375-7239) or contact the University of South Dakota Department of Military Science (605-677-6059).

***Credit for Prior Military Experience***

Veterans may receive appropriate credit for education preparation and experience acquired while in the armed forces. A veteran with an honorable discharge from active duty can receive such credit in accordance with the recommendations of the American Council on Education. Veterans should contact the Office of Records & Registration for assistance. An AARTS transcript (where available) or DD 214 is required.

***Grading System***

Grade points are allocated for each credit hour earned to provide numerical evaluation of a student's scholastic record.

A	4.0	B-	2.7	D+	1.3
A-	3.7	C+	2.3	D	1.0
B+	3.3	C	2.0	D-	0.7
B	3.0	C-	1.7	F	0.0

- F Failure. Recorded if a student fails a course, or the student does not complete the course and does not officially withdraw.
- S Satisfactory. (non-punitive) Recorded in courses where conventional grades are not given and the work is satisfactory, or the student has elected to take a class under the satisfactory-no credit (S-NC) option, and the grade earned was “A” through “C”. Not applicable to Master’s or Specialist degree programs and not counted in Dean’s List decisions.
- NC No Credit. (non-punitive) Recorded in courses where conventional grades are not given and the work is unsatisfactory, or if work is “C-” through “F” under the satisfactory-no credit option.
- I Incomplete. Computed in the GPA as “F” until removed. Incomplete is given only if the student cannot complete the course work because of clearly unavoidable circumstances. The instructor will submit a statement of the reasons for the Incomplete and the requirements for removing it, to the Dean’s Office and to the Office of Records and Registration. The work of the course must be completed and a grade reported to the Office of Records & Registration before the end of the sixth week of the next regular semester following the semester or session in which the Incomplete was incurred, except for the semester of graduation when the grade must be submitted within two weeks after the graduation date. Unless a grade has been reported within the specified period or an extension of time submitted in writing to the Office of Records & Registration by the faculty member of record or his/her Dean, the “I” grade will be changed to an “F.” That grade may not be changed to a passing grade at a future time.
- IP In Progress. (non-punitive) Normally used for graduate students and Honors courses (395 & 499). The instructor will submit a statement of the reasons for the In Progress and the requirements for removing it to the Dean’s Office and to the Office of Records and Registration. The work in a course graded “IP” must be completed within six months of the end of the term in which the grade was initially awarded except for graduating students who must have all previous “IP’s” removed by the end of the sixth week of the semester of graduation. “IP’s” received in the semester of graduation must be removed within two weeks after the graduation date. Unless a new grade has been reported within the specified period or an extension of the time submitted in writing to the Office of Records & Registration by the faculty member of record or his/her Dean, the “IP” grade will be changed to “NC”. That grade may not be changed to a passing grade at a future time.
- W Withdrew. Recorded if a student officially withdrew from college.
- CW Withdrew. Recorded if a student officially withdrew from an on-campus class.
- AU Audit. No academic credit is earned (so it’s not a repeat). See section on Auditing of Courses.

### ***Grade Appeals***

If a student feels an error was made concerning a semester grade, the student should contact the instructor immediately.

- Initiation of a grade appeal must happen within the first six weeks of the academic semester following award of the grade under appeal, except for graduating students.
- Graduating students must have grade changes processed within two weeks following the graduation ceremony (contact the Records & Registration Office for instructions if the instructor is unavailable). After that time, no grade changes can be made for graduates.

### ***Grade Changes***

Grade changes requested by faculty members six months or more after the term in which the original grade was recorded must be submitted to the Vice President for Academic Affairs for approval before the change is made to the student’s permanent record by the Office of Records & Registration. This does not apply to the removal of In Progress grades and Incomplete grades.

### ***Grade Point Calculation***

To calculate a GPA for courses completed by the student, the total number of grade points accumulated is divided by the total number of quality hours. “Quality hours” are all attempted hours except those graded S, NC, IP, W, CW. When a course is repeated, only the grade earned in repetition will be used in computing the GPA.

The cumulative GPA is calculated only on work taken at WSC, which includes Criminal Justice courses offered at WSC through the cooperative program with Northeast Community College. All grades, including transferred grades, are used in figuring the major/minor/endorsement GPA.

### ***Dean’s List***

At the end of each semester, after grades have been recorded, the Registrar publishes a Dean’s List of all undergraduate students who have earned a minimum GPA of 3.5 during the previous semester, without an “I” or “NC” or “F” and with at least 12 hours of regular letter grades (S/NC hours not included).

### ***Repeating Courses***

Courses repeated to raise any grades at WSC must be taken at WSC. This requirement may be waived with specific written approval of the Vice President for Academic Affairs. A student may repeat a course to raise a grade of “C” or above only with the consent of the instructor and the department chair. The grade earned in repetition will stand.

Some courses may be taken more than once for credit as required in the student’s program. This will be indicated in the course description.

### ***Satisfactory-No Credit Option***

The Satisfactory-No Credit grading option encourages students to attempt courses in areas they might avoid because of lack of background. This grading option, therefore, extends the concept of the General Education curriculum.

Students are permitted to enroll for any course on a Satisfactory-No Credit basis within the normal college regulations and the limitations stated below. If a student passes the course with at least a “C”, the student receives credit and a grade of “S”. If the work is “C-” or below, the student receives no credit and a grade of “NC”. Hours attempted (either pass or fail) are not calculated in the GPA.

A student’s instructor will not be informed that the student is enrolled under Satisfactory-No Credit. Following current procedures, final regular letter grades will be submitted by the instructor. The student’s grade will then be converted to Satisfactory-No Credit.

#### **Rules governing the program:**

1. Any student may elect Satisfactory-No Credit by notifying the Office of Records & Registration in writing within 30 calendar days following the first day of the semester or a comparable time period in the short sessions.
2. No student may accumulate more than 12 semester hours of Satisfactory-No Credit.
3. No more than six semester hours may be accumulated in any one academic year.
4. No student will be permitted to receive Satisfactory-No Credit in the minimum requirements in the student’s major, minor, endorsement or professional education.
5. No student will be permitted to receive Satisfactory-No Credit in more than two required General Education courses.
6. Honors courses cannot be taken on a pass/fail basis.
7. After a course is designated Satisfactory-No Credit, it may not be changed back to regular letter grading.
8. A course receiving an S/NC grade cannot be used in a Master’s or Specialist degree program.
9. S/NC grades are not counted in Dean’s List decisions.

### ***Auditing of Courses***

Students may audit courses only on a space-available basis and only with signed approval of the instructor. No academic credit is earned in an audited course so it is not considered a repeat of a previously passed course. Course requirements do not apply in the case of an auditor.

A change from audit to credit or credit to audit must be made within the first 30 calendar days of the semester or the comparable time period in a short session. A completed drop-add slip with instructor signature is required for such a change.

Students register for audited courses at the Office of Records & Registration and pay the regular tuition and fees.

### ***Probation/Suspension Academic Action***

#### **Academic Probation**

Any undergraduate student not currently on academic probation or suspension, whose cumulative Grade Point Average (GPA) falls below 2.0 will be placed on academic probation. This includes first time freshmen. Probationary status will remain in effect as long as the student’s cumulative GPA remains below 2.0. Probation constitutes a period of formal warning that the student is doing unsatisfactory work. A student is removed from probation when their cumulative GPA is 2.0 or above.

Transfer students admitted on probation must complete at least six hours and earn a semester GPA of 2.0 or better in their first term of attendance or they will be academically suspended for one semester. See Admission section for more information.

Returning undergraduate students who left WSC on probation will re-enter on probation. Students who left WSC in good standing may be placed on academic probation upon return if the GPA in college course work attempted from all other institutions is less than a 2.0. Returning undergraduate students must meet the academic standards in effect for current WSC students concerning periods of suspension from their transfer school or from WSC.

The student is encouraged to use every opportunity during time on probation to seek counsel and guidance from various college support services, which have been established to offer assistance in study and academic planning. For information on such planning the student should consult with his or her academic advisor, the college Counseling Center, or the Vice President for Student Life.

#### **Academic Suspension**

Students who are on probation will be suspended by the College at the end of any fall or spring semester during which their current semester GPA is lower than 2.0 and the cumulative GPA falls below the following standards:

<b>Student Classification</b>	<b>Cumulative GPA</b>
first semester freshmen	no suspension
continuing freshmen & sophomores	1.75
juniors & seniors	2.00

Suspension under these conditions will be automatic, and the student will be notified accordingly. Pre-enrollment for any future terms will be automatically canceled. The first academic suspension will be for one semester (fall or spring). The second

suspension will be permanent. All students returning from a period of academic suspension will be continued on academic probation. For removal of probation refer to the earlier section entitled "Academic Probation."

### **Reinstatement Following First Suspension**

**Fall semester suspensions:** A student who has been placed on his or her first academic suspension at the end of the fall semester may appeal to the Student Admission and Retention Committee (SAR) for permission to enroll on probation for courses the subsequent spring term. Such written appeal must be submitted to the Office of Records and Registration by the stated deadline and shall be based solely upon an error or extenuating circumstance that the student believes affected his or her academic performance and warrants immediate return to WSC. The SAR Committee reserves the right to require a personal interview with the student prior to ruling on the suspension appeal. In cases where the appeal is approved, such approval does not remove the academic suspension from the permanent record.

**Spring semester suspensions:** A student who has been placed on his or her first academic suspension at the end of the spring semester may appeal to the Student Admission and Retention Committee for permission to enroll on probation for courses the subsequent fall term. An appeal shall be based solely upon an error or extenuating circumstances that the student believes affected his or her academic performance and warrants retention at WSC. The SAR Committee reserves the right to require a personal interview with the student prior to ruling on the suspension appeal. In cases where the appeal is approved, such approval does not remove the academic suspension from the permanent record.

Students suspended at the end of the spring semester will be allowed to enroll in any summer school sessions that may assist them in immediate reinstatement for the ensuing fall term. Reinstatement will be based upon the cumulative GPA. Changes in suspension status will not be made for any student until final July session grades have been processed. All summer coursework will be considered in determining fall semester academic standing. In order to ensure due process prior to the fall term, students must appeal the spring suspension by the appropriate early summer deadline.

### **Reinstatement Following Second Suspension**

No student will be allowed to return to WSC after a second suspension (except to attend one or all of the summer sessions immediately following a spring semester exclusion) without approval of the Student Admission and Retention Committee. An appeal to this committee shall be based solely upon an error or extenuating circumstances that the student believes affected his or her academic performance and warrants retention at WSC. If an appeal for reinstatement is granted after a second suspension, but the student officially withdraws from that term of reinstatement, the student must go through the appeal process again to request any future readmission.

**Error** shall mean an error in the posting of a grade(s) or a miscalculation of a student's GPA or academic standing.

**Extenuating circumstance** shall mean conditions which are more than ordinary such as an accident, unusual factors, or the occurrence of an event or set of events beyond the student's control that directly contributed to the student being placed on academic suspension by WSC.

For information concerning the filing of an appeal contact the Office of Records and Registration, Hahn 105.

### ***Graduate Students Satisfactory Progress***

Graduate students working on a graduate degree must maintain an overall GPA of 3.0 to continue in good standing. Graduate students who do not maintain an overall GPA of 3.0 will be placed on probation for the next 6 credit hours. If they fail to raise their GPA to a 3.0, they will be removed from their program. Appeals may be made to the Graduate Council through the Graduate Office. See Student Appeals Process in the Graduate section of this catalog.

### ***International Student Satisfactory Progress Policy***

International students attending WSC must meet the same institutional academic satisfactory progress standards as other WSC students. International students should contact the International Student Advisor for information concerning INS regulations pertaining to study in the United States.

### ***Academic Amnesty***

Currently enrolled undergraduate WSC students may remove one (1) or two (2) complete terms of undergraduate course work from their cumulative GPA and undergraduate degree consideration. Application for academic amnesty must be made in the Office of Records & Registration, with approval also needed from the Financial Aid Officer, the Veteran's Officer, the Athletic Director, the Academic Advisor, and the Dean of Students. Final approval must be granted by the Student Admission and Retention Committee a minimum of one term prior to the student's term of graduation.

To qualify, a student must have completed a minimum of twenty-four (24) semester credit hours at WSC (following the most recent term(s) for which the student desires academic amnesty), within which; (1) all hours attempted are counted, (2) only sequential terms are used, (3) a minimum 2.75 WSC cumulative GPA has been earned within those hours referenced above. Transfer students to WSC may not declare academic amnesty for any term(s) completed at any other institution of higher education.

In declaring academic amnesty, all courses, credit hours, grades, and grade points, taken during the identified academic amnesty term(s), including any courses successfully completed, will be removed from the cumulative GPA and undergraduate degree requirements. The academic amnesty term(s) listing course work and grades received shall remain on the student's

permanent official WSC record with an academic amnesty notation. A revised cumulative GPA will be calculated and listed on the record, excluding the term(s) in which academic amnesty was declared.

Any academic amnesty initiated by the student resulting in action taken by WSC shall be final. Academic amnesty may be applied for and received by a student only one time.

Effective date of the WSC Academic Amnesty policy is May, 1993.

## Graduation Requirements

It is the student's responsibility to understand and fulfill all requirements of his or her academic program.

### *Institutional Requirements*

1. Students need to apply for graduation through the Office of Records & Registration one semester prior to their intended graduation date. Failure to comply may extend their intended graduation date one additional semester.
2. A minimum of "C" in English 102, Composition Skills, is required of all students for graduation. A grade of "C-" is not sufficient.
3. A minimum of 125 semester hours of credit must be earned, of which at least 40 hours must be in upper level courses numbered 300 or above. It may take more than 125 hours to complete some degree programs.
4. A minimum of 30 hours of credit must be earned at WSC.
5. A maximum of 66 semester hours of academic credit may be accepted from all previously attended community colleges.
6. At least 24 of the final 30 hours must be earned through WSC, unless approved by the Vice President for Academic Affairs. Students in the cooperative program with Northeast Community College will be exempt from this requirement, except that 24 of the last 30 hours of upper level credit must be taken at WSC.
7. Achievement of minimum grade-point requirements is required. Students preparing to teach must earn a 2.5 overall GPA, a 2.5 average in field or subject endorsements, and a 2.5 average in the professional education requirements. Students not preparing to teach must earn a 2.0 overall GPA and a 2.0 GPA in their major area unless higher requirements are listed in their major.
8. Graduation is conditional, contingent upon completion of all college requirements. See the WSC Student Handbook for details.

### *Degree Requirements*

#### **Bachelor of Arts**

1. Completion of Institutional Requirements listed above.
2. Completion of the General Education Requirements.
3. Completion of at least five hours of study in one foreign language at (or above) the intermediate (200) college level.
4. Completion of at least one of the following: a major and minor, two majors, a comprehensive major (minimum 48 hours), one field endorsement, or two\* subject endorsements. The combination of a major and a minor, or two majors, or 2 subject endorsements must provide the student with at least 48 hours of unduplicated course work to meet graduation requirements.

*\*Students may graduate with a single subject endorsement in English.*

#### **Bachelor of Science**

1. Completion of the Institutional Requirements listed above.
2. Completion of the General Education Requirements.
3. Completion of at least one of the following: a major and minor, two majors, comprehensive major (minimum 48 hours), one field endorsement, or two\* subject endorsements. The combination of a major and a minor, or two majors, or 2 subject endorsements must provide the student with at least 48 hours of unduplicated course work to meet graduation requirements.

*\*Students may graduate with a single subject endorsement in English.*

Effective with the 1993-94 catalog WSC will no longer offer the BAE, BFAE, or BSE degrees. Students completing a teacher education program will have that indicated on their transcript in the title of the major. Admission to Teacher Education and completion of the Professional Education Requirements are necessary for students in teacher education programs, including graduate students working on initial endorsements/certification.

**NOTE:** WSC program requirements may vary from State of Nebraska Teacher Certification Licensing Requirements. It is the responsibility of the student to insure that all certification requirements are met. Contact the WSC Field Experience and Teacher Certification Office directly.

### **Second Undergraduate Degree**

A student may not earn more than one Bachelor of Science or Bachelor of Arts degree from WSC. Students wishing to pursue an additional undergraduate program may do so as defined below:

#### **Second Degree**

When the first Baccalaureate degree is earned from an institution other than WSC the student must:

- Complete a minimum of 30 additional hours at WSC, at least 15 of which is in the major and 15 of which is upper level.
- Satisfy all current major/endorsement requirements.

When the first baccalaureate degree is earned from WSC the student must:

- Earn the second (different) degree in a different major.
- Complete an additional 30 hours at WSC, at least 15 of which is in the major and 15 of which is upper level.
- Satisfy all current major/endorsement requirements.

**Second Major/Endorsement**

To complete an additional program (excluding special endorsements) under a degree already awarded, the student must:

- Complete a minimum of 15 additional credits at WSC, as approved by the appropriate Dean.
- Complete all required courses within the major/endorsement.
- Satisfy all other requirements for that major/endorsement.

For students who have completed the BA or BS degree from WSC within two years immediately prior to completing the additional endorsement, the additional endorsement may be earned with the completion of student teaching requirements only, provided all other endorsement requirements are satisfied.

When an additional major/endorsement is completed, a notation to that effect will be placed on the official transcript by the Office of Records & Registration. No change will be made in the original diploma and the student will not be eligible to participate in commencement. (Note: no financial aid is available unless a student is seeking a second degree or certificate.)

**Simultaneous Majors/Endorsements**

A student may apply for and receive multiple majors/endorsements within the same degree in the same term, beyond the minimum major/minor/endorsement combination required for graduation. In this instance, the following criteria must be met:

- Complete a minimum of 15 additional credits for each additional major/endorsement (excluding special endorsements), as approved by the appropriate Dean.
- Satisfy all other degree requirements for that major/endorsement.

**Minors**

Minors must be completed in conjunction with a major or endorsement. A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s) if applicable.

All completed degrees, majors, endorsements, and minors will be posted to the official transcript.

**Commencement Ceremonies**

Commencement ceremonies are held each academic year in December and May.

All graduating students are expected to attend commencement, which is ceremonial in nature. Diplomas will not be issued until completion of all degree requirements has been verified. Generally diplomas are mailed within six weeks after the end of the term of degree completion.

Summer graduates with no more than six credit hours of coursework and/or an internship, fieldwork, or Co-op remaining to complete their degree during the summer are eligible to participate in May commencement ceremonies.

**Transcripts**

Official transcripts may be obtained in the Office of Records and Registration. Transcripts must be ordered in person or in writing with the student's signature. Telephone requests will not be accepted. Transcripts will not be issued if any Business Services Office holds are in place. Unofficial transcripts may be accessed through Wildcats Online with the student's Username and Password.

**Rural Health Opportunities Program (RHOP)**

The Rural Health Opportunities Program, or RHOP, is a cooperative program between Wayne State College (WSC) and the University of Nebraska Medical Center (UNMC). The purpose of the program is to recruit and educate traditional students from rural Nebraska who will return to practice in rural communities in the state. Candidates for the RHOP program apply in their senior year of high school and begin their education the following fall semester at WSC. The Rural Health Opportunities Program currently has options in medicine, dentistry, pharmacy, physician assistant, physical therapy, clinical laboratory science, radiography, nursing, and dental hygiene. Medicine, physician assistant, physical therapy and dentistry participants must earn a Bachelor of Science (B.S.) degree at WSC before transferring to the respective UNMC College.

**Admission to the RHOP Program**

1. Participants in this program will be selected by a committee of faculty members from WSC and UNMC.
2. Participants in this program must maintain a specified minimum GPA to be "in good standing" and remain in the program.
3. Medicine participants in "good standing" will be automatically admitted to UNMC's School of Medicine when they earn a Bachelor of Science degree at WSC.
4. Dentistry participants in "good standing" will be automatically admitted to UNMC's School of Dentistry when they earn a Bachelor of Science degree at WSC.
5. Pharmacy participants in "good standing" will be automatically admitted to UNMC's School of Pharmacy when they have completed 95 hours of study at WSC. Pharmacy participants may earn a B.S. in Chemistry-Health Sciences through the 3+1 program.
6. Clinical Laboratory Science participants in "good standing" will be automatically admitted to UNMC's School of Allied Health Professions when they have completed 95 hours of study at WSC. Clinical Laboratory Science participants may earn a B.S. in Life Sciences-Health Sciences through the 3+1 program.
7. Dental Hygiene participants in "good standing" will be automatically admitted to UNMC's School of Dentistry when they have completed 63 hours of study at WSC.

8. Physician assistant participants in “good standing” will be automatically admitted to UNMC’s School of Allied Health Professions when they earn a Bachelor of Science degree at WSC.
9. Physical therapy participants in “good standing” will be automatically admitted to UNMC’s School of Allied Health Professions when they earn a Bachelor of Science degree at WSC.
10. Radiography participants in “good standing” will be automatically admitted to UNMC’s School of Allied Health Professions when they complete the required two year program at WSC.
11. Nursing participants in “good standing” will be automatically admitted to UNMC’s School of Nursing in Norfolk, NE when they complete the required two year program at WSC.

## **Honors Program**

### **Honors Program Philosophy**

The purpose of the Honors Program at WSC is to identify motivated and talented students and to offer a challenging curriculum, including the opportunity for interdisciplinary study. The intent of the curriculum is to provide students a more in-depth learning environment, where discussion, exploration and experimentation are encouraged. In order to train individuals to be contributors and caretakers of our society, an innovative General Education core is offered, one that will offer the student an opportunity to understand the world around them, and the impact their actions have on that world. The program consists of a collection of specialized General Education courses, taught by faculty who are especially interested in working with honors students. Smaller class sizes will contribute to a better learning environment, and a more positive and productive experience for both student and faculty.

### **Honors Program Goals**

The honors program at WSC seeks to achieve the following goals:

1. To attract a motivated, talented student, and provide a stimulating educational program that will help promote student retention.
2. To develop a closer working relationship between the faculty from all departments and the students.
3. To implement a curriculum that reaches across all disciplines, thus providing the students a perspective outside their major area of study.
4. To promote the image of WSC as a student oriented, high quality academic institution.
5. To provide faculty opportunities to challenge their own teaching styles and to improve their instruction in an environment of talented and motivated students.

### **Student Selection Criteria**

Students applying to participate in the honors program in their major must meet the application criteria. Application is open to qualified freshmen, transfer and continuing students. Students interested in the Honors Program can contact Dr. James O’Donnell, Dean of the School of Arts and Humanities and Director of the WSC Honors Program, Humanities 209 (375-7394) for information.

#### **Eligible Students: Freshmen**

Applicants must meet one of the following criteria:

1. A GPA of 3.5/4.0 or rank in the upper  $\frac{1}{4}$  of their graduating class as well as an ACT score of 25 or SAT score of 1100.
2. Rank in the upper  $\frac{1}{4}$  of their graduating class, provide a sample of their written work, and have a strong recommendation from a high school instructor.

#### **Continuing Students**

Continuing students wishing to apply to the honors program may do so if they meet the following criteria:

1. Have a cumulative GPA of 3.3 at WSC.
2. Submit an application for honors, provide a sample of their written work, and provide a letter of recommendation from a faculty member and their academic advisor (a staff member of the counseling center may serve as advisor).

Non-honors students are allowed to take selected honors classes as space allows without formally entering the honors program. Instructor permission is required. Courses that may be taken include only the honors courses that directly substitute for non-honors General Education Courses, and Interdisciplinary courses that can be taken as an elective. These courses will be denoted as honors on the student’s transcript. Honors courses cannot be taken on a pass/fail basis.

#### **Transfer Students**

Transfer students will be allowed to apply for the honors program as a continuing student, and must meet the same eligibility requirements as a continuing WSC student. Students who graduate from a community college under an articulated agreement with WSC will be eligible for graduation with honors at WSC under the following circumstances: completed all of the transfer work at the partner community college; earned a minimum community college cumulative GPA of 3.5; completed no less than 59 credits at WSC; earned a cumulative GPA of no less than 3.5 at WSC.

#### **Continuing in the Honors Program**

In order to continue in the honors program, students must maintain a 3.3 cumulative GPA or greater, and a 3.3 GPA or better in honors courses. If a student falls below these criteria, he/she will be placed on a one semester probation. If the GPA criteria are not met by the following semester, the student will be dropped from the honors program. The student may apply for reinstatement into the honors program at a later date, but must meet the criteria set forth for a non-honors student.

**Neihardt Scholars**

John G. Neihardt Scholars must participate in the Honors Program as a part of their scholarship agreement. Neihardt Scholars are required to take 12 hours of their General Education courses in Honors sections, Independent Study (395) during their junior year and Senior Honors Colloquium (499) during their senior year, and at least 3 hours of IDS 110 Shapers of the Modern Mind.

Junior Year: Neihardt Scholars should take at least 3 hours of 395 Independent Study during their junior year. Either semester or both is fine. They need at least 3 hours of 395 in their major to enter 499 Senior Honors Colloquium during their senior year. Up to 6 hours of 395 can count as elective credit towards their major.

Senior Year: Honor students who have completed at least 3 hours of 395 must enroll in 499 Senior Honors Colloquium. This is usually done the semester of their graduation, but can be done in either semester of their senior year to complete the Honors Program.

**Junior Honors (Junior Honors Project)**

Students are required to participate in at least 3 hours of Independent Study (395) to be eligible for the Senior Honors Colloquium (499). Participation in Independent Study (395) will be limited to one independent study of 1 to 3 hours per semester with 6 credit hours being the maximum allowable over any number of years.

**Senior Honors (Senior Honors Project)**

The Senior Honors Colloquium (499) is open to students who have earned at least 3 credit hours in Independent Study (395), and who have an overall GPA of 3.3 and a minimum of 3.3 GPA in their major field. The Honors Colloquium is required for graduation with honors in the major field.

***Graduation with Honors in the Major***

Students may receive different degrees of Honors recognition in their major, depending on the number of honors courses they have completed. Honors courses cannot be taken on a pass/fail basis:

**High Honors in the Major**

This honors recognition is given to the student who has completed a minimum of 12 hours of general education honors credit as well as 6 hours in a junior/senior honors project (395/499) for a total of 18 hours of honors credit. The student must meet the GPA criteria for a continuing honors student (3.3 cumulative, 3.3 within the major).

**Honors in the Major**

This honors recognition is given to the student who has completed a minimum of 6 hours of general education honors credit as well as 6 hours in a junior/senior honors project (395/499) for a total of 12 hours of honors credit. The student must meet the GPA criteria for a continuing honors student (3.3 cumulative, 3.3 within the major).

**Scholar in the Major**

Scholar recognition will be given to the student who does not complete the required number of general education honors courses to qualify for honors or high honors, but does complete a junior/senior honors project. Scholars should be identified by the advising coordinator or the department chair of the student's major field or endorsement no later than the beginning of the student's junior year (no more than 60 hours) or for transfer students after their first semester in residence. To qualify for the junior/senior honors project (395/499) the student must meet the following criteria:

- A. Cumulative GPA of 3.3 or above and a major field GPA of 3.3 or above; OR
- B. A GPA below 3.3 and major field GPA of 3.5 or above; AND
- C. Strong recommendation from an Instructor and the department chair.

***Graduation with Honors***

Undergraduate students with no less than 63 hours earned at WSC (see the exceptions under Transfer Students), who accumulate a GPA between 3.5 and 4.0, qualify for scholastic honors at commencement, based on their cumulative GPA at the end of the semester prior to the semester of graduation. The exact honor is noted on the diploma and official transcript based on the final cumulative GPA as follows:

- Honorable mention: 3.50 to 3.69
- Cum Laude: 3.70 to 3.79
- Magna cum Laude: 3.80 to 3.89
- Summa cum Laude: 3.90 to 4.0

# UNDERGRADUATE PROGRAMS

## *Descriptions Of Courses*

### **Course Numbering**

Courses numbered 100-199 ordinarily are for freshmen and sophomores; courses numbered 200-499 are for sophomores, juniors and seniors; courses numbered 300-499 are upper level courses; 500-599 are for either senior (will be charged graduate tuition) or post-graduate students; and 600-699 for post-graduate students only; 700-level for education specialists primarily; however, graduate students may be admitted with the permission of the advisor and the Dean of the School of Education & Counseling.

Semester credit hours for courses are indicated in parentheses following course titles.

Prerequisites, if any, for enrolling in a course are indicated at the beginning of the course description.

**NOTE:** A course failing to enroll a sufficient number of students may be withdrawn from the offerings at the discretion of the Vice President for Academic Affairs.

### **Endorsements, Majors, Minors**

Three words describe programs of study listed on following pages. “Endorsement” refers to a block of courses for students preparing to teach a certain discipline. There are two kinds of endorsements—field and subject. “Major” and “minor” refer to non-teaching programs of study. In some disciplines, an endorsement and a major are identical.

On following pages, the headlines for each major and endorsement show (in parenthesis) the degrees that are possible in that discipline, e.g., (BA, BS).

## *Special Undergraduate Courses*

In addition to the courses listed for each department, the courses below apply to each department.

### 113 American Culture for Nonnative English Speakers (3).

This course introduces various aspects of American culture to students whose first language is not English. Course content and activities will vary by instructor and department, but may include readings, films, and field trips. This course does not count for General Education credit.

196-496 Special Courses (.5-12). Prerequisite: Approval of the department chair. Special topical or regional studies to be offered when justified by student demand or the presence of qualified faculty. Special assignments will be required for graduate credit. May be repeated for credit if no duplication exists.

199-399 International Study (1-12). Prerequisite: Approval of the department chair.

294-494 Cooperative Education Program (1-12). Prerequisite: Approval of the department chair. Cooperative Education is a credit bearing program providing undergraduate students with the opportunity to integrate paid, career-related work experience with classroom learning. Employment occurs in positions that are relevant to a student’s major. Cooperative Education requires a minimum of 50 work hours for each 1 hour of credit. Contact the Cooperative Education Office or the appropriate department chair for further details.

297-497 Internship (1-12). Prerequisite: Approval of department chair. An actual work experience related to the student’s field of study. The Internship requires a minimum of 45 work hours for each 1 hour of credit. See the appropriate academic department for additional requirements.

368/468 Workshop (.5-3)

391/491 Special Project (1-3) Prerequisite: Approval of the instructor and department chair. Study of a topic, or a presentation in a special area of interest. Title of the project will be entered on the permanent record. A maximum of 12 hours to apply toward a major or endorsement is determined by the appropriate department chair.

498 Clinical Programs. Academic credit completed at an affiliated professional institution.

### **Special Courses limited to Honors Students and Neihardt Scholars**

195 Independent Study (1-3) The student must be accepted for and participating in the “Neihardt Scholars” program, and must have the consent of advisor, appropriate department chair and the Director of the Honors Program. Advanced reading and research in a special topic will be completed.

395 Independent Study (1-3) Prerequisites: 3.3 cumulative GPA (see Honors Program) and consent of instructor, department chair and Director of the Honors Program. Advanced reading and research in special problems, resulting in written evidence of quality work completed. Limit of 6 hours of 395 credit.

499 Senior Honors Colloquium (3) Prerequisites: 3 hours of 395 and a GPA of 3.3 or better in the major field and at least a 3.3 cumulative average. Seminar presentations. May be applied to the major or minor or endorsement.

## *Special Graduate Courses*

In addition to the courses listed for each department, the following graduate course designations apply to each department:

513 International Study (1-9) Prerequisite: Approval of the department chair and the appropriate Director of graduate degree program. Earning of credits in this course will be subject to the completion of a scholarly product showing educational benefit or growth of the learner in his/her chosen degree program; product to be pre-approved by the advisor.

568 Workshop (.5-3) Only 3 hours of 568 workshop credit may be included in a Master's degree program.

591 Special Project (1-3) Prerequisite: Approval of the instructor and department chair. Study of a topic, or a presentation in a special area of interest. Title of the project will be entered on the permanent record. A maximum of 12 Special Project credits may apply toward a major or endorsement as determined by appropriate department chairs.

596/696 Special Course (.5-12). Prerequisite: Approval of the department chair. Special topical or regional studies to be offered when justified by student demand and the presence of qualified faculty. May be repeated for credit if no duplication exists.

597/697 Internship (1-12) Prerequisite: Approval of department chair. An actual work experience related to the student's field of study. See the appropriate academic department for additional requirements.

695 Independent Study (1-6) Advanced readings and research in selected problem areas to meet the special needs of the graduate student. Approval of instructor, department chair, and school dean is required. Six credits are the maximum number a student may apply to a graduate degree program through Independent Study.

699 Thesis (up to 6) Approval of instructor, department chair, and school dean.

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### **General Studies**

General Studies courses are available through the Learning Center under the direction of the appropriate academic department for credit towards graduation. A total of 5 credits from GST courses may be applied to a degree. These courses are listed under General Studies in the course schedule/ registration booklets each semester. General Studies course descriptions may be found in the alphabetical listing of courses.

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### **USD Military Science Courses**

The following courses are available to WSC students under a special agreement with the University of South Dakota Department of Military Science, Army Reserve Officers' Training Corps (ROTC). Currently classes are held in the late afternoon at the USD Vermillion, SD, campus. Enrollment must be approved, in advance, by the USD ROTC Professor of Military Science who can be contacted at (605) 677-5284

or [www.usd.edu/msc](http://www.usd.edu/msc). The first two years of Military Science Courses (MSL 101, 102, 201, 202), called the Basic Courses, are open to all students and no military service obligation is incurred. The junior and senior years of Military Science Courses (MSL 301, 302, 401, 402), called the Advanced Courses, have as a prerequisite to enrollment one of the following:

- completion of all Basic Courses; **or**
- attendance at a four-week Leader's Training Course at Fort Knox, KY, (for which pay is received as well as 4 credit hours); **or**
- if currently in the Army National Guard or Army Reserve and have completed both Basic Training and Advanced Individual Training; **or**
- prior active duty military service with the completion of both Basic Training and Advanced Individual Training.

Advanced course participants may incur an active, Reserve or National Guard service obligation. There are many options; interested students should discuss obligations and career plans thoroughly with the Professor of Military Science prior to enrollment. There are also many financial aid options available with ROTC for all students. All courses are tuition free.

MSL 101 Foundations of Officership (1) Make your first peer group at college one committed to performing well and enjoying the experience. Increase self-confidence through team study and activities in basic drill, physical fitness, rappelling, leadership reaction course, first aid, making presentations and basic marksmanship. Learn fundamental concepts of leadership in a profession in both classroom and outdoor laboratory environments. One hour and a required leadership lab, MSL 101L, plus optional participation in one-hour session for physical fitness. Participation in a weekend exercise is optional, but highly encouraged.

MSL 102 Basic Leadership (1) Learn and apply principles of effective leadership. Reinforce self-confidence through participation in physically and mentally challenging exercises with upper-division ROTC students. Develop communication skills to improve individual performance and group interaction. Relate organizational ethical values to the effectiveness of a leader. One hour and a required leadership lab, MSL 102L, plus optional participation in a one-hour session for physical fitness. Participation in a weekend exercise is optional, but highly recommended.

MSL 201 Individual Leadership Skills (2) Learn/apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams of people. Develop skills in oral presentations, writing concisely, planning events, coordination of group efforts, advanced first aid, land navigation, and basic military tactics. Learn fundamentals of ROTC's Leadership Assessment Program. Two hours and a required lab, MSL 201L, plus required participation in two one-hour sessions for physical fitness. Participation in a weekend exercise is optional, but highly encouraged.

MSL 202 Leadership and Teamwork (2) Introduction to individual and team aspects of military tactics in small unit operations. Includes use of radio communications, making safety assessments, movement techniques, planning for team safety/security and methods of pre-execution checks. Practical exercises with upper-division ROTC students. Learn techniques for training others as an aspect of continued leadership development. Two hours and a required leadership lab, MSL 202L, plus required participation in two one-hour sessions for physical fitness. Participation in a weekend exercise is optional, but highly encouraged.

MSL 294 Leader’s Training Course (4) Fort Knox, Kentucky, 4 credit hours earned.

MSL 301 Leadership and Problem Solving (3) Series of practical opportunities to lead small groups, receive personal assessments and encouragement, and lead again in situations of increasing complexity. Uses small unit tactics and opportunities to plan and conduct training for lower division students both to develop such skills as vehicles for practicing leadership. Three hours and a required leadership lab, MSL 301L, plus required participation in three one-hour sessions for physical fitness. Participation in one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

MSL 302 Leadership and Ethics (3) Continues methodology of MSL 301. Analyze tasks; prepare written or oral guidance for team members to accomplish tasks. Delegate tasks and supervise. Plan for and adapt to the unexpected in organizations under stress. Examine and apply lessons from leadership case studies. Examine importance of

ethical decision making in setting a positive climate that enhances team performance. Three hours and a required leadership lab, MSL 302L, plus required participation in three one-hour sessions for physical fitness. Participation in one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

MSL 401 Leadership and Management (3) Plan, conduct, and evaluate activities of the ROTC cadet organization. Articulate goals and implement plans to attain them. Assess organizational cohesion and develop strategies to improve it. Develop confidence in skills to lead people and manage resources. Learn/apply various Army policies and programs in this effort. Three hours and a required leadership lab, MSL 401L, plus required participation in three one-hour sessions for physical fitness. Participation in one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

MSL 402 Ethical Decision-Making for Leaders/Officership (3) Continues the methodology from MSL 401. Identify and resolve ethical dilemmas. Refine counseling and motivating techniques. Examine aspects of tradition and law as related to leading as an officer in the Army. Prepare for a future as a successful Army lieutenant. Three hours and a required leadership lab, MSL 402L, plus required participation in three one-hour sessions for physical fitness. Participation in one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

MSL 494 National Advanced Leadership Camp (4) Fort Lewis, Washington, 4 credit hours earned.

**Art (ART)  
Art & Design Department  
School of Arts & Humanities  
Studio Arts Building**

**Objectives:** The Art program has been developed to meet the needs of several types of students. Basic preparation is offered as well as technical and professional education for students who desire to enter the fields of elementary and secondary education and for supervisors of art. Pre-professional education and graphic design programs are provided for students who plan to study for professional work in fields of art other than teaching. A number of courses are designed for students who do not plan to specialize in art, but who want an understanding of art and a fundamental grounding in the techniques of the arts.

Each student’s progress will be assessed through sophomore and senior reviews. Transfer students will submit a portfolio to the art faculty at the end of their first semester in the art program at WSC.

**Reservation of Work.** The College reserves the right to retain two examples of each student’s art in each class of

instruction for exhibit purposes. These become the property of the College for one year. All additional work will be returned to the student after the annual art exhibitions of the art department.

**Field Trip.** A field trip to a nearby museum (i.e., Omaha or Lincoln) may be required of each art student each semester. The cost of transportation and meals is paid by each student.

**Art Major (BA or BS) 55-57 hours**

**Art Core Classes: 15 hours**

ART 101 Design .....	3
110 Drawing Fundamentals.....	3
221 Painting I .....	3
271 Sculpture I .....	3
281 Printmaking I .....	3

Plus one of the following concentrations:

**Field Endorsement in Art Concentration: 42 hours + 15 hour core**

ART 111 Advanced Drawing .....	3
251 Pottery & Ceramics I.....	3
314 K-8 Art Curriculum .....	2
316 Secondary School Art.....	3
321 Painting II .....	3

325 Watercolor .....	3
344 Art History I.....	3
345 Art History II .....	3
346 Art History III.....	3
351 Pottery & Ceramics II.....	3
371 Sculpture II.....	3
381 Printmaking II.....	3
440 Multicultural Arts .....	3
490 Senior Exhibit.....	1

Upper division electives (instructor approval).....3  
 EDU 409 Art Content Area Methods and Materials must be taken as part of the professional requirements.

**Graphic Design Concentration: 41 hours + 15 hour core**

ART 111 Advanced Drawing .....	3
202 Typography .....	2
204 Digital Imaging/Graphic Des .....	2
325 Watercolor.....	3
330 Graphic Design I.....	3
331 Graphic Design II .....	3
344 Art History I.....	3
345 Art History II .....	3
346 Art History III.....	3
402 Production/Media Problems .....	3
410 Interactive Media.....	3
411 Senior Portfolio.....	1
494 Art Coop or 497 Art Internship.....	3

6 hours of electives by advisement from: .....6  
 CNA 426, ITE 363, BUS 370, 374, or any other Art course except ART 102, 314, 315 or 316. Students selecting the Advanced Studio Minor cannot apply those hours as part of this major's requirement.

**Art Concentration: 40 hours + 15 hour core**

ART 111 Advanced Drawing .....	3
251 Pottery and Ceramics I .....	3
321 Painting II.....	3
325 Watercolor.....	3
344 Art History I.....	3
345 Art History II .....	3
346 Art History III.....	3
351 Pottery and Ceramics II.....	3
371 Sculpture II.....	3
381 Printmaking II.....	3
490 Senior Exhibit.....	1

Upper division electives from up to three advanced problems studio (instructor approval) (ART 421, 451, 471 or 481).9

**Minor in Art: 18 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

ART 101 Design .....	3
110 Drawing Fundamentals.....	3
221 Painting I <b>or</b>	
271 Sculpture I <b>or</b>	
281 Printmaking I.....	3
344 Art History I <b>or</b>	
345 Art History II <b>or</b>	
346 Art History III.....	3

Upper division Art electives by advisement .....6

**Minor in Art: Advanced Studio: 18 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s). (Recommended for Graphic Design majors. All ART prerequisites must be met.)

ART 251 Pottery and Ceramics I .....	3
321 Painting II.....	3
371 Sculpture II.....	3
381 Printmaking II.....	3

6 hours Advanced Problems in Studio selected from ART 351, 421, 451, 471, and 481.....6

**Undergraduate Courses**

ART 101 Design (3) Co-requisite: ART 110. Study of two-dimensional and three-dimensional design elements and principles applied to imagery and spatial concepts. Emphasis on visual communication and problem solving through creative thinking, concepts, media, skills, processes and research. Critical discourse, basic color theory and composition will be integral parts of the course. Students will design a digital portfolio. (6 hours studio)

ART 102 The Visual Arts Experience (3) is designed to enhance the student's awareness, knowledge, and appreciation for the visual arts in various societies. Increase understanding of the historical role the visual arts hold in a global world. Particular emphasis will be placed upon the nature of perception, the visual language of art, the media, and creative processes used. (ART 102 does not apply to an endorsement, major, or minor in Art.)

ART 110 Drawing Fundamentals (3) Co-requisite: ART 101. An introduction to foundational concepts and techniques in the study of line, shape and form, light and shadow, linear and atmospheric perspective. Formal concerns regarding composition will be explored and selection of subject matter will be from the figure, still life, landscape and nature. (6 hours studio)

ART 111 Advanced Drawing (3) Prerequisites: ART 110. A continuation of drawing techniques as delineated in ART 110. Students will expand upon their background in various drawing media and be challenged by a more intense study of the human figure. (6 hours studio)

ART 200 Sophomore Review (0) A review of first semester sophomores and transfer students who have completed ART 101 Design and ART 110 Drawing Fundamentals. Assess student progress, ensure that the required portfolio is being maintained and that the student is actively engaged and responsible for his/her progress. All eligible students will be notified in a timely fashion by the Department of Art & Design prior to the reviews. The department will notify students of the results in writing and forward a list of those who have successfully completed the review to the registrar. Entering transfer students meeting all other prerequisites may enroll in upper-division classes prior to the review, but failure to successfully complete the review will negate their ability to enroll in subsequent upper-division classes.

Successful completion of the review is a prerequisite for all studio courses 300 level or above (ART 321, 325, 330, 351, 362, 371, 381). Carries no credit. S/NC

ART 202 Typography (2) Prerequisites: ART 101, 110.  
(Requirements are waived for the declared Minor in Online Media). Study of type as both a verbal and visual form of communication. Emphasis placed on the historical development and contemporary usage of type. Utilizes Adobe Photoshop, Adobe Illustrator, and Adobe InDesign. (4 hours studio)

ART 204 Digital Imaging for Graphic Design (2) Prerequisite: ART 202. This course explores the effective use of digital imagery in graphic design. Aesthetic content in the production, manipulation, and presentation of digital images will be stressed. Students will learn creative and exploratory use of digital cameras, scanners, and appropriate computer programs. Utilizes Adobe Photoshop, Adobe Illustrator, and Adobe InDesign. (4 hours studio)

ART 221 Painting I (3) Prerequisites: ART 101, 110.  
Concentration on foundational skills using the oil painting medium. Color mixing, sketching for compositional placement, surface applications, and use of materials will be covered. Subject matter will address formal concerns as they relate to representation and abstraction. (6 hours studio)

ART 251 Pottery and Ceramics I (3) Study of the cultural, historical, and geological basis of clay. Foundational methods in both hand building construction and throwing on the wheel will be introduced. Surface decoration, glazing techniques, and kiln firing processes will be discussed and performed. (6 hours studio)

ART 271 Sculpture I (3) Prerequisites: ART 101, 110.  
Exploration of basic technical and expressive possibilities in three-dimensional form and space, including wood carving, steel fabrication, and mixed-media assemblage. One project will include the creation of a large-scale sculpture suitable for outdoor display. (6 hours studio)

ART 281 Printmaking I (3) Prerequisites: ART 101, 110.  
An introduction to printmaking concentrating on relief processes. Primarily utilizing wood and plastics as matrices, the student will execute a variety of editioned prints in black and white and color using single block, multiple block, and reductive techniques. Various approaches to registration and color will be presented. (6 hours studio)

ART 314 K-8 Art Curriculum (2) Prerequisites: ART 101, 110, Sophomore/Junior. Preparation to teach art and organize appropriate art experiences for students K-8. The course includes: history and philosophy of art education as it relates to creative experiences for K-8 students, skills in teaching major concepts reflected in art disciplines, service and community learning, interdisciplinary lesson

development, art hazards and safety, and assessment. Current trends and research will be covered. (4 hours studio)

ART 315 Art and Creative Processes in Education (2)  
(Designed for Elementary Ed, and Special Ed. majors.)  
This course will examine how the visual arts play a crucial role in improving students' ability to use higher-order thinking skills as they draw on a range of intelligences and learning styles for non-verbal literacy. Course content includes creative exploration of art concepts, media and skill development and art hazards awareness through lecture/studio experience. Pedagogical methods will include Discipline-Based Art Education components of criticism, aesthetics, production and history and the integration of Art across the curriculum. (3 hours lecture-laboratory)

ART 316 Secondary School Art (3) Prerequisite: ART 314, Junior/Senior. Preparation to teach art and organize appropriate art experiences for the secondary level student, grades 9-12. Includes history and philosophy of art education as it relates to secondary level teaching. Topics to be covered include: teaching art, art hazards, curriculum planning and assessment, studio, lesson plans, current trends, community and service learning, advocacy, developing resource materials, and demonstrated teaching. (6 hours studio)

ART 321 Painting II (3) Prerequisite: ART 200, 221.  
Advanced painting concepts using the acrylic painting medium. Emphasis will be placed on a variety of techniques which include mixed media. Subject matter will explore modern and contemporary themes of abstraction and non-representation. (6 hours studio)

ART 325 Watercolor (3) Prerequisite: ART 200, 221.  
Introduction to materials and techniques of watercolor painting. Exploration of basic and mixed media. (6 hours studio)

ART 330 Graphic Design I (3) Prerequisite: Junior/Senior, ART 200, 204. (ART 204 prerequisite waived for students declaring a minor in Online Media or the CIS major with Applied E-Commerce Paths concentration) Course designed to develop problem solving skills in order to communicate a specific message to a specific audience. Development of aesthetic skills in layout, typography, and design along with basic computer software skills are emphasized. Utilizes Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Microsoft Word, and Microsoft PowerPoint. (6 hours studio)

ART 331 Graphic Design II (3) Prerequisite: ART 330.  
This course is for upper-level graphic design students who will execute advanced and comprehensive projects that will build on the skills learned in Graphic Design I. These projects will include advertising design, package

- and point-of-purchase display design, multi-panel printed pieces, magazine advertisements, and corporate image. Course will include an introduction to web design using Dreamweaver and Flash. Utilizes Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Microsoft Word, and Microsoft PowerPoint. (6 hours studio)
- ART 344 Art History I (3) A survey of painting, sculpture, and architecture from Prehistoric to Gothic. (Lecture)
- ART 345 Art History II (3) A survey of painting, sculpture, and architecture from Early Renaissance through the 19<sup>th</sup> Century. (Lecture)
- ART 346 Art History III (3) History of Modern Art. A study of 20<sup>th</sup> Century Art, beginning with Post Impressionism, surveying the wide range of movements that resulted from the modernist experience. This course will also concern itself with Post-Modernism and begin to explore its manifestations in the 21<sup>st</sup> Century. (Lecture)
- ART 351 Pottery and Ceramics II (3) Prerequisite: ART 200, 251. A continuation of Pottery and Ceramics I with more advanced wheel and hand building concepts introduced. Students will learn a variety of surface decoration techniques, low and high fire kiln processes, and contemporary issues in clay. (6 hours studio)
- ART 371 Sculpture II (3) Prerequisite: ART 200, 271. Advanced application of techniques learned in Sculpture I, with an emphasis on materials. Basic stone carving and metal casting will be explored, in addition to advanced research methods. (6 hours studio)
- ART 381 Printmaking II (3) Prerequisite: ART 200, 281. A further exploration of printmaking concentrating on intaglio processes. Students will primarily explore dry point, hard and soft ground etching, and aquatint and various approaches to monochrome and polychrome printing. Collography and intagliotype printmaking will be introduced. (6 hours studio)
- ART 402 Production and Media Problems (3) Prerequisite: Senior, ART 331. Advanced graphic design course involving assignments in desktop publishing, printing, paper, inks, color reproduction methods, four-color process printing, electronic color imaging, and preparing computer files for printing. Utilizes Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Microsoft Word, and Microsoft PowerPoint. (6 hours studio)
- ART 410 Interactive Media (3) Prerequisite: Senior, ART 402. This course introduces students to various interactive media applications. Emphasis on graphic and information design for the web. Utilizes Adobe Flash and Adobe Dreamweaver. (6 hours studio)
- ART 411 Senior Portfolio (1) Prerequisite: Senior. This course is designed to concentrate on preparing the student to compete in the job market. Topics include: 1) Portfolio development, 2) Practical considerations in interviewing skills, 3) Self promotion and developing contacts. Students will make arrangements, advertise and present their individual portfolios at a Senior Portfolio public presentation.
- ART 421 Advanced Problems in Painting (3) Prerequisite: ART 321. Emphasis will be on self-direction regarding the selection of subject matter and media. Experimentation, critical and independent thinking, technical proficiency and alliance with contemporary art issues are emphasized. (6 hours studio) **May be repeated for a total of six (6) credits. Additional hours may be taken as ART 491 Special Project in Painting.**
- ART 440 Multicultural Arts (3) Prerequisite: Junior/Senior. The student will become more aware of the arts in global cultures from ancient to modern times for purposes of identity, understanding, and expression of our inheritance as world citizens. The cultural and ethnic differences will be stressed enough through readings, discussions, and studio experiences emphasizing the arts as the expressions of these eras. (6 hours studio)
- ART 451 Advanced Problems in Pottery and Ceramics (3) Prerequisite: ART 351. Emphasis will be on self-direction in the selection of utilitarian or sculptural areas to pursue in clay. Experimentation, critical thinking, technical proficiency and alliance with contemporary art issues are emphasized. (6 hours studio) **May be repeated for a total of six (6) credits. Additional hours may be taken as ART 491 Special Project in Pottery and Ceramics.**
- ART 471 Advanced Problems in Sculpture (3) Prerequisite: ART 371. Significant problems in the realization of sculpture based on individual concepts and advanced applications of sculptural processes. Expanded media and safe studio operations will be explored through research. (6 hours studio) **May be repeated for a total of six (6) credits. Additional hours may be taken as ART 491 Special Project in Sculpture.**
- ART 481 Advanced Problems in Printmaking (3) Prerequisite: ART 381. A further exploration of approaches to printmaking based on the student's special interest and skills. Photo processes will be more fully presented and experimentation with additional processes related to the individual's approach to imagery will be pursued. (6 hours studio) **May be repeated for a total of six (6) credits. Additional hours may be taken as ART 491 Special Project in Printmaking.**
- ART 490 Senior Exhibit (1) Students will read appropriate materials, assist in mounting exhibits, design fliers, write press releases and coordinate publicity. The experience will culminate in the student's senior exhibition. Students with a significant number of upper-level studio courses can register

with instructor's permission following art department's approval.

ART 497 Art Internship (1-12) Prerequisite: Approval of department chair. An actual work experience related to the

student's field of study. The Internship requires a minimum of 45 work hours for each 1 hour of credit. Art students may take ART 494 Art Coop to meet this requirement. See the Department Chair.

**Life Sciences / Biology (BIO)  
Life Sciences Department  
School of Natural & Social Sciences  
Carhart Science Building**

**Objectives:** The Biology/Life Sciences major provides students with career choices in biotechnology, organismal biology, environmental biology, or biology education. The Biology/ Life Sciences program also offers courses to students preparing for further study in Clinical Laboratory Science, Mortuary Science, Respiratory Therapy, other health science fields, Agriculture, Forestry, or Wildlife Management. Courses in Biology offer majors and non-majors the background required to think critically about the role of the living world in their lives.

**Life Sciences Major (BA or BS) 42-55 hours**

**Life Sciences Core: 12 hours**

BIO	110 Biology Concepts.....	4
CHE	106 General Chemistry I .....	4
PHY	201 General Physics I.....	3
	321 Physics Laboratory I.....	1

Plus one of the following concentrations:

**Biology Concentration: 43 hours + 12 hour core**

Biology concentration majors must complete MAT 180 Applied Probability and Statistics (3) for the Block 2 Mathematics General Education requirement. Students must take BIO 370 before taking BIO 394 or 465.

BIO	200 Zoology.....	4
	210 Botany.....	4
	301 Biology Seminar .....	1
	320 Molecular Genetics.....	4
	370 Introduction to Research.....	2
	425 Evolution .....	3
	394 Biology Cooperative Education <b>or</b>	
	465 Continuing Research .....	1
	469 Senior Seminar in Biology <b>or</b>	
	470 Research Project .....	1
CHE	107 General Chemistry II .....	4
	208 Intro Organic Chem <b>or</b>	
	314 Organic Chem I .....	4

Select one of the two tracks of study below:

Biology Track:

BIO	325 Ecology.....	4
	BIO electives numbered 300 or above .....	11

**OR**

Biomedical Track:

BIO	330 Histology .....	4
	434 Advanced Cellular Biology .....	3
	BIO electives numbered 300 or above.....	8

*CHE 326 Biochemistry I (4) may be taken in lieu of one Biology elective course in either track.*

**Biology/Food Science Concentration: 38 hours + 12 hour core**

Students graduating with a biology/food science concentration major must complete MAT 180 Applied Probability and Statistics (3) to satisfy the Block 2 Mathematics General Education requirement. Students must take BIO 370 before taking BIO 394 or 465.

BIO	200 Zoology.....	4
	210 Botany .....	4
	320 Molecular Genetics.....	4
	370 Introduction to Research.....	2
	385 Microbiology .....	4
	425 Evolution .....	3
	394 Biology Cooperative Education <b>or</b>	
	465 Continuing Research .....	1
	469 Senior Seminar in Biology <b>or</b>	
	470 Research Project .....	1
CHE	107 General Chemistry II .....	4
	314 Organic Chemistry.....	4
FDST	405 Food Microbiology.....	3**
	406 Food Micro Lab .....	2**
	451 Seminar.....	2**

UNL classes (\*\*)

Students completing this major are strongly encouraged to take CHE 315 Organic Chemistry II (4), CHE 326 Biochemistry I (4) and MAT 140 Calculus I (5) before transferring to UNL.

In addition to the required courses above, students must complete a minimum of 40 credit hours of 300 level or above course work and a minimum of 125 credit hours for a biology degree from WSC. WSC will waive the requirement that 24 of the last 30 hours be completed at WSC, as long as the student completes 95 credit hours\* prior to transferring to the University of Nebraska-Lincoln to complete the Biology/Food Science Major. \*Note: 30 of the 95 credit hours must be taken at WSC.

The courses listed below are required of the Food Science program at the University of Nebraska-Lincoln and will be accepted by WSC toward the appropriate minimum credit hour requirements.

FDST	203 Food Composition .....	2
	207 Food Analysis .....	3
	403 Quality Assurance.....	2
	448 Food Chemistry .....	3
	449 Food Chem Lab .....	1
	464 Heat/Mass Tran.....	2
	465 Unit Operations .....	3
CHE	221 Quantitative Analysis.....	4

In addition to these courses, students must complete 6 credit hours of course work in any of the following 3 credit hour Food Science Commodities courses offered at UNL only (FDST 412 Cereal Science (3), 418 Eggs (3), 429 Dairy

Prod. Technology (3), 420 Post-Harvest Physiology (3), 455 Bioprocessing of Foods (3), ASCI 310 Fresh Meats (3) or 410 Processed Meats (3). And take either NUTR 445 or ASCI 421.

**Subject Endorsement-Life Sciences/Biology Education**

**Concentration: 30 hours + 12 hour core**

MAT 180 Applied Probability and Statistics (3) **or both** MAT 121 College Algebra (3) **and** MAT 122 Applied Trigonometry (1) must be taken as the Block 2 Mathematics General Education requirement.

BIO	200 Zoology.....	4
	210 Botany.....	4
	220 Human Anatomy.....	4
	325 Ecology.....	4
	340 Human Physiology.....	4
	385 Microbiology.....	4
	393 Laboratory Techniques.....	2

EAS 110 Intro to Meteorology.....4

EDU 409 Science Content Area Methods and Materials is required. A second subject endorsement is required for a Nebraska teaching certificate.

The B.S. in Health Sciences will be awarded by completing either of the following options:

**(Life Sciences) Health Sciences 3+1 Concentration: 12 hours core + hours by advisement to total 95 hours + 30 hours of HSC 498**

This 3+1 concentration requires students to complete 95 semester hours of a prescribed pre-professional curriculum including the above courses accepted by WSC and successfully complete the first year of the approved professional program at a professional school awarding Master’s or Doctoral degrees. Students register at WSC for HSC 498 (no tuition requirement) for 30 hours and complete one year of course work in an approved professional program.

**(Life Sciences) Health Sciences 2+2 Concentration: 63 hours by advisement + 62 hours of HSC 498**

This 2+2 concentration requires students to complete a minimum of 63 hours of a prescribed pre-professional curriculum accepted by WSC and successfully complete the first two years of the approved professional program at a professional school awarding Master’s or Doctoral degrees, where a Master’s or Doctorate is the sole professional degree offered. Students register at WSC for 31 hours of HSC 498 (no tuition requirement) in both their junior and senior years and complete two years of course work in an approved professional program.

Students in these programs are exempted from the requirement that the last 30 hours be taken at WSC.

**Clinical Laboratory Science Concentration: 12 hour core + 43 hours + Clinical year**

MAT 180 Applied Probability and Statistics (3) must be taken for the Block 2 Mathematics General Education requirement.

BIO	220 Human Anatomy.....	4
	320 Molecular Genetics.....	4
	340 Human Physiology.....	4
	385 Microbiology.....	4
	486 Immunology.....	2
CHE	107 General Chemistry II.....	4
	208 Intro Organic Chem.....	4

	301 Introduction to Clinical Chemistry.....	1
	326 Biochemistry I.....	4
MAT	121 College Algebra.....	3
	Elective courses numbered 300 or above from any department.....	9
HSC	498 Professional Clinical Year Experience at an Affiliated Hospital.....	30

A minimum of 95 semester hours is required prior to the clinical year. No minor is required.

The Clinical Laboratory Science Program satisfies the requirements and standards established by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

**Sequence of Clinical Laboratory Science Program:**

1. Freshman year: Declare the major and begin taking the required courses with counsel of advisor.
2. Sophomore year: Continue courses in the required sequence.
3. Junior year: Make application to the affiliated hospital (hospitals) of your choice.
4. Senior year: Register at WSC for HSC 498 (no tuition requirements) and complete the course work at one of our affiliates.
5. Make application for graduation to the Records & Registration Office at WSC a semester before the expected date of graduation.

**Mortuary Science Concentration: 12 hour core + 41 hours + Clinical year.**

MAT 121 College Algebra (3) must be taken as the Block 2 Mathematics General Education requirement.

PSY 101 General Psychology (3) and SOC 110 Introduction to Anthropology (3) must be taken as part of the Block 3 Social Sciences General Education requirement.

BIO	220 Human Anatomy.....	4
	340 Human Physiology.....	4
BUS	222 Business Law I.....	3
	240 Accounting I.....	3
	241 Accounting II.....	3
CHE	107 General Chemistry II.....	4
	208 Intro Organic Chem.....	4
PSY	316 Social Psychology.....	3
	Elective courses numbered 300 or above from any department.....	13
HSC	498 Clinical Year at an affiliated Mortuary Science School.....	30

A minimum of 95 semester hours is required prior to the Professional Clinical Year at an affiliated Mortuary Science School.

**Sequence of Mortuary Science Program:**

1. Freshman year: Declare the major and begin taking the required courses with the counsel of advisor.
2. Sophomore year: Continue courses in the required sequence. Make application to an affiliate in the Professional Training Schools Inc.
3. Junior year: Complete all necessary courses both those in General Education and those required by the affiliate. Complete the application to the affiliate and secure approval from the department chair.

4. Senior year: Register at WSC for HSC 498 and complete the courses at one of our affiliates.
5. Make application for graduation to the Records & Registration Office at WSC at least three months before the expected date of graduation.

**Respiratory Therapy Concentration: 12 hour core + 41 hours + Clinical year at an approved Respiratory Therapist program.**

MAT 121 College Algebra (3) must be taken for the Block 2 Mathematics General Education requirement.

BIO	220 Human Anatomy	4
	340 Human Physiology	4
	385 Microbiology	4
	486 Immunology	2
BUS	360 Management Theory and Practice	3
CHE	107 General Chemistry II	4
	208 Intro Organic Chem	4
FCS	207 Nutrition	3
HSC	345 CPR-Healthcare Provider	1
PSY	230 Lifespan Development	3
	Elective courses numbered 300 or above from any department	9
HSC	498 Professional Clinical Year	35

**Minor in Biology: 20 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

BIO	110 Biology Concepts	4
	16 hours of Biology electives	16

At least 12 of the additional 16 hours of Biology electives must be numbered 300 or above.

**Minor in Environmental Studies: 20 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

BIO	145 Environmental Studies Seminar	1
	345 Conservation Biology	3
GEO	430 Geographic Information Systems	3
POS	380 Public Policy	3
SOC	420 Environmental Sociology	3
	Plus 7 hours of electives from the following:	7

BIO	104 Environmental Concerns (3)	
	325 Ecology (4)	
BUS	418 Legal Environment of Business (3)	
CHE	400 Environmental Chemistry (3)	
EAS	110 Introduction to Meteorology (4)	
EAS	120 Introduction to Geology (4)	
ECO	360 Global Economics (3)	
GEO	315 World Economic Geography (3)	
PSY	316 Social Psychology (3)	
SOC	355 Human Populations (3)	

**Undergraduate Courses**

BIO 102 Biology for General Education (3) Selected topics in Biology to be presented by the laboratory oriented approach, and in compliance with the requirements of General Education. Does not apply to any major, minor, or endorsement in any science area (BIO, CHE, EAS, NAT) unless specified. (4 hours lecture-lab combined)

BIO 104 Environmental Concerns for General Education (3) Selected topics of Environmental Concerns to be presented by the laboratory-oriented approach, and in compliance with the requirements of General Education. Does not apply to any major, minor, or endorsement in any science area (BIO, CHE, EAS, NAT) unless specified. (4 hours lecture-lab combined)

BIO 110 Biology Concepts (4) Prerequisite: One year of high school Biology or BIO 102. The first course for biology majors. A grade of C- or better in this course is a prerequisite for all biology courses in the biology concentration. A study of the microscope, basic cell structure and function, DNA replication, mitosis, meiosis, genetics, evolution, population biology, and diversity. (3 hours lecture, 3 hours lab)

BIO 145 Environmental Studies Seminar (1) A discourse on environmental problems and opportunities through research, discussion and guest lectures. May be repeated once for a maximum of two (2) hours.

BIO 200 Zoology (4) Prerequisite: A grade of C- or better in BIO 110. A study of the principles of biology as they apply to the uniformity, diversity and organization of the animal kingdom. (3 hours lecture, 3 hours lab)

BIO 210 Botany (4) Prerequisite: A grade of C- or better in BIO 110. A study of the biological principles applicable to the diversity, form and function, evolution, and ecology of plants and plant-like organisms. (3 hours lecture, 3 hours lab)

BIO 220 Human Anatomy (4) Prerequisite: BIO 110. Study of the anatomic structure of the human organism. The 11 organ systems of the human and representative quadrupeds will be examined in detail with lecture, dissection and other laboratory exercises. Dissection is required of all students taking this course. An understanding of human anatomy is beneficial for students that will ultimately enroll in advanced courses of cell biology, histology, comparative vertebrate embryology and anatomy, and parasitology. Having training in human anatomy is also beneficial for students interested in health-related and biomedical careers. (3 hours lecture and one 3 hour lab)

BIO 280 Biology in Society – Honors (3). An investigation of biological principles, as well as their applications and impacts in society. Discussion and laboratory topics include evolution, biodiversity, and recombinant DNA technology. (4 hours lecture-lab combined)

BIO 300 Invertebrate Zoology (4) Prerequisite: BIO 200. The morphology, anatomy, paleontology, evolution and distribution of representative invertebrate groups. (3 hours lecture, 3 hours lab)

BIO 301 Biology Seminar (1) Prerequisite: A grade of C- or better in BIO 110. Lecture and discussion of topics relevant to the science and practice of biology. Topics vary based on the faculty member leading the course. The course may be repeated for a maximum of four (4) credit hours, by advisement, when no duplication of topic exists but a maximum

- of only two (2) credit hours can count towards any Life Sciences major.
- BIO 305 Vertebrate Zoology (4) Prerequisite: BIO 200. The morphology, anatomy, paleontology, evolution, physiology, and distribution of representative vertebrate groups. (3 hours lecture, 3 hours lab)
- BIO 320 Molecular Genetics (4) Prerequisites: A grade of C- or better in BIO 110, CHE 106. A study of the mechanisms of inheritance, the molecular basis of gene action and the use of molecular techniques and molecular technology in biomedical, agricultural, and industrial research. The lab component of this course focuses on hands-on use of molecular equipment and technologies used in graduate and industrial molecular based research. (3 hours lecture, 3 hours lab)
- BIO 325 Ecology (4) Prerequisite: 8 hours of Biology. An evolution-based study of the interrelationships of organisms and their environment. (3 hours lecture, 3 hours lab)
- BIO 330 Histology (4) Prerequisite: BIO 110. Study of the structure and function of cells, tissues, and organs of organisms. Prepared slides of human and other vertebrate organs and tissues will be studied with light microscopy. Students will also learn techniques associated with slide preparation and slide organization. An understanding of human anatomy would be beneficial to students taking this course. Histology is highly recommended for students interested in health-related, biomedical, and biological careers. (3 hours lecture, 3 hours lab)
- BIO 340 Human Physiology (4) Prerequisites: BIO 220, CHE 106. A study of the fundamental physiological processes of the human body. Functions of the 11 organ systems will be studied. (3 hours lecture and one 3-hour lab)
- BIO 345 Conservation Biology (3) Prerequisite: Junior Standing. A study of habitat assessment, ecosystem management and ecological restoration. Students will integrate knowledge gained from various disciplines to develop conservation management plans.
- BIO 370 Introduction to Research (2) Prerequisite: A grade of C- or better in BIO 110, 8 hours of Biology. This course is designed for Biology majors as an introduction to scientific writing, library research, data collection and data analysis. The student will be expected to use the skills learned in this course to establish a proposal for a research project for BIO 465 and 470.
- BIO 385 Microbiology (4) Prerequisites: A grade of C- or better in BIO 110, CHE 106. Topics of study detail the structure and physiology of microorganisms including mechanisms of pathogenesis. Beneficial aspects of microorganisms are also discussed with regard to both the human body and the environment. Lab techniques include microbial identification, enumeration procedures and student designed research. (3 hours lecture, 3 hours lab)
- BIO 393 Laboratory Techniques (1) Prerequisite: Junior standing. Assisting in the preparation and evaluation of laboratory activities. Course may be repeated for a maximum of two (2) credits. Instructor approval required.
- BIO 400/500 Advanced Zoology (3) Prerequisite: BIO 200. A laboratory and field course oriented on the morphology, taxonomy, and ecology of selected animal groups such as insects, fish, reptiles and amphibians, mammals, or other groups. (3 hours lecture-lab combined)
- BIO 405/505 Advanced Plant Biology (3) Prerequisite: BIO 210. Classification, structure, and/or physiology of plants and plant-like organisms. (3 hours lecture-lab combined)
- BIO 409 Comparative Embryology and Anatomy (4) Prerequisite: BIO 110 and CHE 107. A comparative study of vertebrate embryonic development and anatomy with emphasis on morphogenesis, function, and evolution of organ systems. (3 hours lecture, 3 hours lab)
- BIO 425 Evolution (3) Prerequisites: A grade of C- or better in BIO 110, and BIO 200, BIO 210, and BIO 320. The study of the history of evolutionary thought, beginning with pre-Darwinian ideas and ending with our current understanding of evolutionary mechanisms. The course will explore the evidence for evolution by examining the fossil record, comparative anatomy/physiology, and model field studies. Students will learn the model systems demonstrating the mechanisms that drive evolution: mutation, selection, genetic drift, gene flow, and inbreeding. Evolution is a unifying theme in biology which integrates knowledge from all biological disciplines. (3 hours lecture-lab combined)
- BIO 430/530 Parasitology (3) Prerequisite: BIO 110. Study of animal parasites and the effects they have on their hosts. Studies in this course center on parasites of humans, other vertebrates and invertebrates. Taxonomy, morphology, development, physiology, identification, epidemiology and pathogenesis are emphasized. An understanding of human anatomy and histology would be beneficial to students taking this courses. Parasitology is highly recommended for students interested in health-related, biomedical and biological careers. (3 hours lecture-lab combined)
- BIO 434 Advanced Cellular Biology (3) Prerequisites: BIO 320, CHE 107. An advanced study of the structure and function of the eukaryotic cell. Topics will include the basics of modern cell biology including signal transduction, cell cycle regulation, and gene expression. (3 hours lecture-lab combined)
- BIO 445 Molecular Biology (3) Prerequisite: BIO 320. This course is designed to give students a working knowledge in the field of molecular biology. It will introduce cloning techniques, DNA sequencing, site directed mutagenesis, electrophoresis and the polymerase chain reaction. A discussion of these techniques and current developments in gene therapy, forensic analysis and molecular systematics will be included. (3 hours lecture/lab combined)
- BIO 451/551 Advanced Ecology (3) Prerequisite: BIO 325. The study of interrelationships of organisms to their environment in terrestrial and freshwater habitats. (3 hours lecture-lab combined)

BIO 465 Continuing Research (1) Prerequisites: A grade of C- or better in BIO 110, BIO 370. This course is a continuation of BIO 370. Students taking this course will be actively involved in research under their chosen advisor. This course is to be taken after BIO 370 but prior to BIO 470.

BIO 469 Senior Seminar in Biology (1) Prerequisite: A grade of C- or better in BIO 110, 370, and 394. Students will develop an oral and written presentation of their Biology Cooperative Education experience. Students will incorporate current research literature into their presentations.

BIO 470 Research Project (1) Prerequisites: A grade of C- or better in BIO 110, 370 and 465. This course is a continuation of BIO 370 and 465. Students will take this course as a means of completing their individual research project under the direction of a chosen instructor. A presentation of this research in both oral and written form is required at the conclusion of the course.

BIO 486/586 Immunology (2) The topics for this course will include the biological, physical and chemical properties of antigens and antibodies, host-antigen interaction, humoral and cellular response mechanisms, serologic reactions, mechanisms of antibody formation, hypersensitivity. (2 hours lecture-lab combined) Graduate students will be required to do an additional project and write a paper.

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

BIO 500 Advanced Zoology (3) See BIO 400. Students registering for BIO 500, a graduate level, dual numbered course will be assigned an additional project that focuses on the application of the course materials to the secondary education classroom.

BIO 505 Advanced Plant Biology (3) See BIO 405. Students registering for BIO 505, a graduate level, dual numbered course will be assigned an additional project that focuses on the application of the course materials to the secondary education classroom.

BIO 530 Parasitology (3) See BIO 430. Students registering for BIO 530, a graduate level, dual numbered course will be assigned an additional project that focuses on the application of the course materials to the secondary education classroom.

BIO 551 Advanced Ecology (3) See BIO 451. Use of field collecting methods by group participation to analyze and compare ecological systems. Simulations and published data will be used to study effects of local conditions on ecosystems. Students registering for BIO 551, a graduate level, dual numbered course will be assigned an additional project that focuses on the application of the course materials to the secondary education classroom.

BIO 586 Immunology (2) See BIO 486. Students registering for BIO 586, a graduate level, dual numbered course will be assigned an additional project that focuses on the application of the course materials to the secondary education classroom.

**Business (BUS)**  
**Business & Economics Department**  
**School of Business & Technology**  
**Gardner Hall**

**Objectives:** The programs in business administration are designed: (1) to develop/enhance a foundational knowledge of the common professional component; (2) to develop/enhance breadth and depth of knowledge beyond the common professional component in an area of specialization; (3) to develop a set of desirable cognitive learning skills; (4) to develop professional behavioral characteristics; (5) to develop professional attitudinal characteristics.

**For teaching careers:** Students planning to teach business subjects in secondary schools should work toward the bachelor's degree with either a field endorsement in Business or Marketing Education or a subject endorsement in Basic Business Education. Students wishing to meet the requirements for vocational certification to teach in reimbursable business education programs must enroll in the vocational field endorsement in either Business or Marketing Education. The objective is to provide prospective business teachers with a background, which will enable them to develop the desirable knowledge, skills, and attitudes necessary to teach business subjects.

**For careers in business:** Students planning careers in business should work toward the Bachelor of Science degree in Business Administration. Students may concentrate in one

of the following: Accounting, Public Accounting, Advertising, Agri-Business, Economics, Finance, Human Resource Management, Management, Marketing, Office Administration, International Business, or Advisor Approved. The objective of the degree program is to provide a solid foundation in business practices and policies. This foundation will enable men and women to secure and advance more rapidly in positions of responsibility and leadership in business, industry, and government.

Students planning for other careers in industrial management or fashion merchandising should work toward the Bachelor of Science degree in Industrial Management or Fashion Merchandising (Technology and Applied Science Department)

Students planning a career in computer information systems should work toward the Bachelor of Science degree in Computer Information Systems.

**Computer Literacy Requirements:**  
**Business Administration**

Advertising, Advisor Approved, Agri-Business, Economics, Human Resource Management, International Business Studies, Management, Marketing, Office Administration, and Public Accounting concentrations: CIS 130 Introduction to Computer/Information Technology (3) or demonstrated literacy.

Accounting and Finance concentrations: CIS 130 Introduction to Computer/Information Technology (3) and CIS 232 Spreadsheet Software or demonstrated literacy.

**Business Education**

Field and Subject Endorsements: CIS 130 Introduction to Computer/Information Technology (3).

**Nebraska Certified Public Accountant Requirements:**

Students wishing to sit for the Certified Public Accountants exam in Nebraska need to have a college degree and must have completed 150 semester hours prior to application. See Public Accounting Concentration section for more information.

**Accreditation**

The Business and Economics Department has received specialized accreditation for its business and business-related programs through the International Assembly for Collegiate Business Education (IACBE). The following degree programs are accredited by IACBE: Bachelor of Science and Bachelor of Arts in Business Administration excluding the advisor approved and agri-business concentrations and the Master of Business Administration.

**Field Endorsement-Business Education 7-12 (BA or BS)  
54 hours**

Business Administration .....	36
BUS 122 Personal Finance in Modern Society .....	3
208 Business Communications .....	3
214 Information Management .....	3
222 Business Law I .....	3
240 Accounting I .....	3
241 Accounting II .....	3
360 Management Theory and Practice .....	3
370 Principles of Marketing .....	3
CIS 130 Intro to Comp/Info Technology .....	3
ECO 202 Principles of Macroeconomics .....	3
203 Principles of Microeconomics .....	3
Electives to be selected from the following .....	3
BUS 223 Business Law II (3)	
226 Business Statistics (3)	
325 Principles of Insurance (3)	
327 Principles of Real Estate (3)	
362 International Business (3)	
ECO 360 Global Economics (3)	
Information Technology Systems .....	9
BUS 216 Office Information Processing .....	3
307 Office Systems and Technologies .....	3
Electives to be selected from the following .....	3
CIS 231 Microcomputer Software (1)	
232 Spreadsheet Software (1)	
233 Advanced Spreadsheet Software (1)	
Career and Technical Education .....	9
CED 417 Principles of Career Education .....	3
423 Coordinating Techniques .....	3
463 Intro to Voc Special Needs .....	3

**PLUS Work Experience:**

The endorsement is available to those who have (a) 1,000 verified hours of paid work experience in business, or (b) at least 300 hours of supervised work experience in business under the direction of the college or university recommending the endorsement.

**Field Endorsement – Marketing Education 7-12 (BA or BS)  
54 hours**

Marketing .....	15
BUS 370 Principles of Marketing .....	3
372 Selling and Sales Management .....	3
374 Principles of Advertising .....	3
475 Consumer Purchasing & Motivation .....	3
476 Retail Management .....	3
Business Administration .....	30
BUS 222 Business Law I .....	3
226 Business Statistics .....	3
240 Accounting I .....	3
241 Accounting II .....	3
350 Managing Behavior in Organizations .....	3
360 Management Theory and Practice .....	3
CIS 130 Intro to Comp/Info Tech .....	3
ECO 202 Principles of Macroeconomics .....	3
203 Principles of Microeconomics .....	3
Electives to be selected from the following .....	3
BUS 208 Business Communications (3)	
470 Marketing Management (3)	
479 Advertising Plans/Campaigns (3)	
Career and Technical Education .....	9
CED 417 Principles of Career Education .....	3
423 Coordinating Techniques .....	3
463 Intro to Voc Special Needs .....	3

**PLUS Work Experience:**

The endorsement is available only to those persons who have 1,000 verified hours of paid work experience in any combination of marketing, management, or entrepreneurial activities.

**Basic Business Subject Endorsement 7-12 (BA or BS)  
33 hours**

Business Administration .....	30
BUS 122 Personal Finance in Modern Society .....	3
208 Business Communications .....	3
222 Business Law I .....	3
240 Accounting I .....	3
241 Accounting II .....	3
360 Management Theory and Practice .....	3
370 Principles of Marketing .....	3
CIS 130 Intro to Comp/Info Tech .....	3
ECO 202 Principles of Macroeconomics .....	3
Electives to be selected from the following .....	3
BUS 223 Business Law II (3)	
226 Business Statistics (3)	
325 Principles of Insurance (3)	
327 Principles of Real Estate (3)	
362 International Business (3)	
CIS 231 Microcomputer Software (1)	
232 Spreadsheet Software (1)	
233 Advanced Spreadsheet Software (1)	
ECO 360 Global Economics (3)	
Information Technology .....	3
BUS 216 Office Information Processing	

**Business Administration Foundation**

Admission to Wayne State College does not constitute admission to the Business Administration major. Students who have not been admitted to the Business Administration will not

be allowed to enroll for 300 level or above core/concentration courses without approval of the Department Chair.

Students will be admitted into the Business Administration major upon completion of the following course requirements and at least forty-five semester hours.

The course requirements are:

Pass each of the following courses with a grade of "C" or better:

BUS	208 Business Communications	3
	222 Business Law I	3
	226 Business Statistics	3
	240 Accounting I	3
	241 Accounting II	3
CNA	100 Principles of Human Comm	3
ECO	202 Principles of Macroeconomics	3
	203 Principles of Microeconomics	3
ENG	102 Composition Skills	3

Students not having successfully fulfilled the above requirements may be admitted conditionally to the Business Administration major upon approval of the Department of Business and Economics Admission Committee.

### Major in Business Administration:

**(BA or BS) 48 or 76 hours**

#### Business Administration Core: 27 hours

BUS	322 Managerial Finance	3
	350 Managing Behavior in Orgztns	3
	352 Production & Operations Mgmt	3
	362 International Business	3
	370 Principles of Marketing	3
	408 Business Ethics	3
	418 Legal Environment of Business	3
	420 Strategic Management	3
CIS	430 Management Information Systems	3

Plus one of the following Concentrations:

#### Accounting: 21 hours

BUS	340 Internal Financial Reporting	3
	342 Accounting Information Systems	3
	347 External Financial Reporting	3
	348 External Financial Reporting Standards	3
	440 Assurance Services	3
	445 Federal Tax Accounting I	3
	447 Accounting Analysis, Forecasting & Decision Making	3

#### Advertising: 21 hours

BUS	374 Principles of Advertising	3
	475 Consumer Purchasing & Motivation	3
	479 Advertising Plans / Campaign	3
CNA	301 Advertising Copywriting	3
	374 Public Relations	3
	379 Broadcast Management <b>or</b>	
	453 Integrated Marketing Communication	3
ITE	425 Desktop Publishing	3

#### Advisor Approved: 21 hours

BUS	343 Managerial Accounting	3
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Plus 18 hours approved by the student's advisor(s), ap-

proved by the department chair, the Advisor-Approved Curriculum committee, and sent to the Records & Registration Office where the 21 hours will be formally entered as part of the student's program.

#### Agri-Business: 21 hours

21 hours of agricultural course work completed at an appropriate college or university approved by the student's advisor(s), department chair, and the Agri-Business Curriculum Committee.

#### Economics: 21 hours

ECO	302 Intermediate Macroeconomics	3
	303 Intermediate Microeconomics	3
	310 Money and Banking	3
	430 International Economics	3
	470 Industrial Organization	3
	Electives hours selected from the following:	6
ECO	320 Labor Economics (3)	
	350 Economic Development (3)	
	360 Global Economics (3)	
	444 Topics in Economics (3)	
GEO	315 World Economic Geography (3)	

#### Finance: 21 hours

BUS	324 Intermediate Managerial Finance	3
BUS	344 Financial Accounting and Analysis <b>or</b>	
	348 External Financial Reporting Standards	3
	424 Investments	3
ECO	310 Money and Banking	3
BUS	423 Advanced Finance <b>or</b>	
ECO	430 International Economics	3
	Electives selected from the following:	6
BUS	223 Business Law II (3)	
	325 Principles of Insurance (3)	
	327 Principles of Real Estate (3)	
	427 Bank Management (3)	
ECO	302 Intermediate Macroeconomics (3)	
	303 Intermediate Microeconomics (3)	

#### Human Resource Management: 21 hours

BUS	354 Human Resource Development	3
	355 Workforce Planning & Employment	3
	367 Foundatns of Human Resource Mgmt	3
	454 Total Compensation	3
	455 Employment Law & Labor Relations	3
	456 Strategic Human Resource Management	3
	Electives selected from the following:	3
BUS	356 Conflict Management (3)	
	357 Negotiations (3)	
	480 Business Research (3)	
ECO	320 Labor Economics(3)	

Highly Recommended Coursework:

CJA	425 Substance Abuse Management (3)
CNA	375 Intercultural Communication (3)
ITE	207 Ergonomics (3)
	310 Workplace Accident Investigation (3)
PSY	435 Industrial/organizational Psychology (3)

#### International Business Studies: 21 hours

BUS	457 Topics in Globalization	3
ECO	430 International Economics	3
GEO	120 World Regional Geography	3
	Elective hours from courses with BUS prefixes	3

Elective hours of advisor approved upper level course work from the following areas: ECO, GEO, POS, or credit earned from an approved study abroad program .....9

**Management: 21 hours**

BUS 343 Managerial Accounting .....3  
 366 Management Science .....3  
 367 Foundations of Human Resource Mgmt .....3  
 480 Business Research .....3

CIS 477 Project Management .....3

Electives selected from the following .....6

BUS 354 Human Resource Development(3)  
 372 Selling and Sales Management (3)  
 471 Principles of Supervision (3)  
 476 Retail Management (3)

ITE 108 Manufacturing Processes and Systems (3)  
 315 Manufacturing Technology (3)

PED 450 Program Management in Sport & Wellness (3)  
 464 Facility Management in Sport & Wellness (3)

**Marketing: 21 hours**

BUS 343 Managerial Accounting .....3  
 372 Selling and Sales Management .....3  
 374 Principles of Advertising .....3  
 470 Marketing Management .....3  
 475 Consumer Purchasing and Motivation .....3  
 476 Retail Management .....3  
 480 Business Research .....3

**Office Administration: 21 hours**

BUS 214 Information Management .....3  
 216 Office Information Processing .....3  
 307 Office Systems and Technologies .....3  
 367 Foundations of Human Resource Mgmt .....3  
 454 Total Compensation .....3

CIS 231 Microcomputer Software .....3

CNA 426 World Wide Web Development **or**  
 450 Computer Layout/Presentation .....3

**Public Accounting: 49 hours**

The Nebraska accountancy law requires a candidate for licensure to have completed a college degree and have a minimum of 150 semester hours prior to applying to sit for the CPA exam. This 150 semester hour program must include 30 semester hours in accounting beyond principles, 36 semester hours in general business, 60 semester hours in general education, and 24 hours of electives. Completion of the public accountancy concentration, when taken as a part of the business administration major and with proper advisement will allow the student to meet the statutory requirements of the Nebraska accountancy law.

BUS 223 Business Law II .....3  
 340 Internal Financial Reporting .....3  
 342 Accounting Information Systems .....3  
 347 External Financial Reporting .....3  
 348 External Financial Reporting Standards .....3  
 440 Assurance Services .....3  
 444 Governmental Accounting .....3  
 445 Federal Tax Accounting I .....3  
 446 Federal Tax Accounting II .....3  
 447 Accounting Analysis, Forecasting  
 & Decision Making .....3

449 Risk Analysis-Accounting Controls .....3  
 CIS 232 Spreadsheet Software .....1  
 Electives taken from courses with non-BUS prefixes .....15

**Minor in Advertising: 21 hours**

Not available to Business Administration majors.

A minor must include a minimum of 12 hour unduplicated by the student's major(s) and minor(s). Also listed in the Communication Arts section.

BUS 370 Principles of Marketing .....3  
 374 Principles of Advertising .....3  
 475 Consumer Purchasing and Motivation .....3  
 479 Advertising Plans/Campaign .....3

CNA 301 Advertising Copywriting .....3  
 374 Public Relations .....3

Electives selected from the following .....3

CNA 379 Broadcast Management (3)  
 453 Integrated Marketing Communication (3)

ITE 425 Desktop Publishing (3)

**Minor in Business Administration: 21 hours**

Not available to Business Administration majors. A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

BUS 226 Business Statistics .....3  
 240 Accounting I .....3  
 241 Accounting II .....3  
 322 Managerial Finance .....3  
 360 Management Theory and Practice .....3  
 370 Principles of Marketing .....3  
 418 Legal Environment of Business .....3

**Minor in Management Information Systems: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

BUS 360 Management Theory and Practice .....3  
 CIS 132 Prin of Computing & Info. Systems .....3  
 (may substitute CIS 130 if required in student's major)  
 360 Comp Info Sys: Analysis & Design .....3  
 366 Introduction to Data Base .....3  
 375 Intro to E-Commerce .....3  
 430 Management Information Systems .....3  
 CSC 165 Intro to Web Design .....3

**Endorsement in Information Technology.** See Computer Science section of the catalog.

**Undergraduate Courses**

BUS 122 Personal Finance in Modern Society (3) A study of how the interconnected socioeconomic, business, financial, and informational systems affect our personal lives as well as the culture in which we live. Students will be encouraged to develop and articulate a personal perspective on the financial aspects of their lives.

BUS 124 Introduction to Business (3) Limited to freshman Business majors. An introductory study of the supporting theory, principles, and practices of the various business disciplines. Disciplines include accounting, management, marketing, and finance. In addition, topics of current interest (business ethics, regulation, etc.) will be covered.

- BUS 142 Survey of Accounting (3)** A course for non-business majors to study the role of accounting as an information development and communication function that supports economic decision-making. This restricted overview of accounting emphasizes development of knowledge and skills to perform basic financial analysis, derive financial information for personal or organizational decisions, and utilize information for better understanding of business, governmental, and other organizational entities.
- BUS 208 Business Communications (3)** Prerequisites: ENG 102. Development of critical communication skills used in business and industry. Emphasis on assisting Business students to become more effective and efficient writers. Includes instructions, reports, memos, and letters.
- BUS 214 Information Management (3)** Study of the systematic analysis and technological control of business records through the records life cycle. Management considerations for records program development, records creation and forms control, classification systems, active and inactive records control, retention and disposition scheduling, and cost analysis of records maintenance. Includes computer applications.
- BUS 216 Office Information Processing (3)** Development of proficiency in the use of various software packages as tools in today's automated office. "Hands on" office applications utilize current word processing, database, graphics, desktop publishing, and ten-key calculator software in a networked environment.
- BUS 218 Office Internship (1-3)** Prerequisite: Instructor approval. Satisfactory completion of work typically performed in educational and business office environments through an office internship. Use of office machines, reprographic and word processing equipment in the development of skills in document preparation, duplication, transcription, record keeping, filing, and office etiquette. May be repeated up to three (3) hours.
- BUS 222 Business Law I (3)** Introduction to the study of law, the law of contracts, agency and employment, negotiable instruments, personal property and bailments, and the laws governing the sale of goods.
- BUS 223 Business Law II (3)** The law of partnerships and corporations, real property and leases, insurance and security devices, bankruptcy, trusts and estates, and government regulations.
- BUS 226 Business Statistics (3)** Prerequisite: General Education Math requirement. A study of the following statistical tools as applied to the business and economic milieu: collection and presentation of data, distributional measurements, probability and sampling, statistical inferences, linear regression and correlation, analysis of variance, and selected nonparametric statistics.
- BUS 240 Accounting I (3)** A study of the role of accounting in the business environment. Emphasis is on applying basic terminology, concepts, processes, and outputs of the modern accounting system; development of an understanding of the nature and purpose of the major financial statements; and development of the ability to evaluate financial accounting information in problem solving and decision making.
- BUS 241 Accounting II (3)** Prerequisite: BUS 240. Continuation of BUS 240. Emphasis is on further study of items reported within major financial statements and development of the ability to evaluate managerial accounting information in problem solving and decision making.
- BUS 307 Office Systems and Technologies (3)** Prerequisite: Junior Standing. Business procedures applicable to the secretarial, office management, and/or business education professions. Emphasizes practical application of office skills and knowledge, including responsibilities pertaining to mail, communication, travel, meeting arrangements, parliamentary procedure, office equipment and supplies, etc.
- BUS 322 Managerial Finance (3)** Prerequisites: BUS 226, 241, and Junior Standing. A study of the financial function within a business enterprise. Areas addressed include financial analysis, working capital management, capital budgeting, sources and forms of long-term financing, financial structure, and cost of capital.
- BUS 324 Intermediate Managerial Finance (3)** Prerequisite: BUS 322. Students who have completed introductory studies in accounting, economics, business law, statistics, and managerial finance will apply these concepts to the problems of financing business organizations. The following topics will be covered: theory of capital budgeting, cost of capital, capital structure, working capital, and such special topics as mergers, leasing, and multinational finance.
- BUS 325 Principles of Insurance (3)** Prerequisite: Junior Standing. A study of the field of insurance, insurance practices, insurable risk, and the basic provisions of various types of insurance—casualty, accident, health, and life.
- BUS 327 Principles of Real Estate (3)** Prerequisite: Junior Standing. A study of the character of land, real estate markets, ownership, interests, legal instruments, contracts, closing transfers, financing, brokerage, and management.
- BUS 340 Internal Financial Reporting (3)** Prerequisites: BUS 241, CIS 232 and Junior Standing. Study of cost management systems and how accounting information is used within organizations to solve problems, make decisions, and define organizational strategies. Topics include cost determination for products, services, processes, departments, and activities; budgeting; performance evaluation; situational analysis and decision making; and professional ethics.
- BUS 342 Accounting Information Systems (3)** Prerequisite: BUS 340 or 343. An analysis of the modern accounting

system with emphasis on design, documentation, and implementation of an appropriate accounting system for a firm. The course includes a study of a firm's information needs and internal control requirements, the use of microcomputer software packages, and the use of the case (or project) technique requiring both written and oral presentation of results.

**BUS 343 Managerial Accounting (3)** Prerequisites: BUS 241 and Junior Standing. Emphasizes the analysis of accounting information. Examines the information developed in accounting systems and how this information is utilized in the decision-making process.

**BUS 344 Financial Accounting and Analysis (3)** Prerequisites: BUS 241 and Junior Standing. Further study of accounting measurement and reporting practices underlying financial statements. Topics include measurement and reporting of financial statements' components, usefulness and limitations of financial statements, adjustment of financial statements to enhance their economic content for analysis, procedures for analysis, use of financial disclosures in analysis, and interpretation of analysis results.

**BUS 347 External Financial Reporting (3)** Prerequisites: BUS 241 and Junior Standing. In-depth study of accounting theory and practice with particular emphasis on reporting via the four financial statements. Extensive coverage of the statement of cash flows as well as reporting for cash; receivables; inventories; property, plant, and equipment; and intangibles. Includes an introduction to accounting standards research and an introduction to international accounting standards.

**BUS 348 External Financial Reporting Standards (3)** Prerequisite: BUS 347. In-depth study of accounting theory and practice with particular emphasis on researching and applying accounting standards to various business situations. Coverage of reporting for current liabilities, bonds, equity, leases, deferred income tax, and post-employment benefits. Includes application of international accounting standards.

**BUS 350 Managing Behavior in Organizations (3)** Prerequisite: Junior Standing. This course prepares students to lead and manage organizations in a highly competitive environment. Students will understand and identify methods for improving and maintaining aspects of individual and organizational performance. The course includes an examination of management and the applied behavioral sciences; organizational goals, training and performance; organizational culture; motivation and behavior; building effective relationships; planning and implementing change; leadership strategies; and integrating situational leadership.

**BUS 352 Production and Operations Management (3)** Prerequisites: BUS 226 and Junior Standing. The application of business principles to rational production of goods and delivery of services. Topics include forecasting, logistics,

quality control, process reliability, project management, supply chain management, and resources planning.

**BUS 354 Human Resource Development (3)** Prerequisite: Junior Standing. This course focuses on developing and implementing programs and processes directed toward organizational performance improvement, learning, and change; employee training and development; and addressing the unique needs of a diverse workforce. Students will utilize tools for assessment, analysis and evaluation for the purpose of identifying and establishing priorities, and measuring the results of human resource development activities.

**BUS 355 Workforce Planning and Employment (3)** Prerequisite: Junior Standing. This course focuses on the development and implementation of recruitment, selection, onboarding, succession planning, retention, and organizational exit programs necessary to achieve organizational objectives. Students will apply techniques such as Markov analysis to assess labor (internal and external) supply and demand; and metrics to evaluate recruitment sources and retention strategies, such as return on investment, cost per hire, and time to fill. Further, students will incorporate technology through the application of Human Resource Information Systems (HRIS).

**BUS 356 Conflict Management (3)** Prerequisite: Junior Standing. This course will introduce students to an analysis of conflict. Students will explore questions such as: What is conflict? How do different people respond to conflict? What are the costs of conflict in a person's life and in the workplace? When is conflict constructive and when is it destructive? Further, students will learn the best tools for resolving conflict in community, corporate, organizational, legal, and interpersonal settings.

**BUS 357 Negotiations (3)** Prerequisite: Junior Standing. Students in this course will learn about conflict, conflict resolution and negotiations. Students will learn and exercise tactics to become better negotiators. During the course students will study the concepts, engage in exercises and participate in simulated negotiations.

**BUS 360 Management Theory and Practice (3)** Prerequisite: Junior standing. Develops the management art and science of planning, organizing, actuating, and controlling through people to make ideas materialize within economic constraints of a business enterprise. Develops ability to construct policy, to make scientifically-sound decisions within that policy, and to establish ethical procedures to insure organized productive effort to intended objectives. Develops a management attitude, outlook, and ability.

**BUS 362 International Business (3)** Prerequisites: ECO 202, 203 and Junior Standing. Survey of the problems and opportunities involved in conducting business operations across national boundaries. Analysis of the concepts, tools, institutions, and environmental factors controlling interna-

tional flows of money, personnel, information, goods and services.

**BUS 366 Management Science (3)** Prerequisites: BUS 226 and Junior Standing. Application of quantitative and analytical approaches to management problems within a theoretical framework and behavioral background developed.

**BUS 367 Foundations of Human Resource Management (3)** Prerequisite: Junior Standing. This course identifies the foundations of human resources in an organizational setting. The course introduces students to the history of human resource management and its role, and provides an overview of human resource management including: workforce planning and employment; employee recruitment, selection, orientation, performance appraisals; human resource development; job analysis and design; compensation and benefits; employee relations; and Human Resource Information Systems (HRIS).

**BUS 370 Principles of Marketing (3)** Prerequisite: Junior Standing. A study of the distribution of manufactured goods, the field of marketing, people as markets, classification of goods, markets and services, wholesale, manufacturer's selling policies, marketing research, and trends in marketing.

**BUS 372 Selling and Sales Management (3)** Prerequisite: BUS 370. An examination of sales as a career and the practical application of the principles and practices of professional selling. Topics include an examination of the sales executive's role as a participant in the marketing management team; the sales executive's duties and responsibilities; and the planning and implementation of sales and marketing programs.

**BUS 374 Principles of Advertising (3)** Prerequisite: BUS 370. A study of advertising as a communications strategy and a function of marketing. Focus is on consumer psychology and the various media approaches to advertising and promotion.

**BUS 408 Business Ethics (3)** Prerequisite: Junior Standing. This course will examine theoretical structures that shape or influence Western thought and review specific professional codes of ethics relevant to business majors. Students will learn a decision-making framework for examining and articulating well-reasoned positions on ethical issues in business.

**BUS 418 Legal Environment of Business (3)** Prerequisite: Junior Standing. This course focuses on public, administrative, and regulatory law, and the relationship of business to the legal structure. Topics include employee and consumer protection, environmental regulation, labor law, monopolies, price-fixing, and the regulation of domestic and international trade.

**BUS 420 Strategic Management (3)** Prerequisites: BUS 322,

350, 352, 370, or instructor approval, and completion of 105 semester credit hours. Involves analysis of cases in which knowledge from basic courses in marketing, accounting, finance, management, and economics is integrated and applied. Demonstrated interrelationship between the functions of business, complexities of business problems, and strategic management models are addressed.

**BUS 423 Advanced Managerial Finance (3)** Prerequisite: BUS 324. Advanced development of the finance specialization with major emphasis on the theoretical issues. Topics include risk and return, forecasting techniques, capital budgeting, and financial structure. Theory will be combined with application through the use of case analysis.

**BUS 424 Investments (3)** Prerequisites: BUS 322 and either BUS 344 or 348. Topics include types of securities, security prices and markets, economics of personal selection of securities, outlook for specific industries.

**BUS 427 Bank Management (3)** Prerequisite: BUS 322. This course studies banking from a commercial bank perspective. Topics include bank asset-liability management; policies and practices for reserves, loans, and investments; new problems and innovations; and internal factors.

**BUS 435/535 Student to Business Consulting (3)** Prerequisite: Approval of department chair. Provides intensive management counseling for small businesses utilizing qualified college students in business disciplines under faculty guidance. The students meet frequently over the course of a full semester (or more) with the small business owner to identify and solve management problems. A detailed case report is written and given to the client. May be taken once at the undergraduate level and repeated once at the graduate level.

**BUS 440 Assurance Services (3)** Prerequisite: BUS 348. Introduction to the concepts and practice of accounting professional services including audits, other attestation services, and other assurance services. Topics include professional ethics and responsibilities, legal liability, professional standards, risk assessment, engagement planning, sampling and other evidence accumulation, evidence evaluation, and results reporting.

**BUS 444 Governmental Accounting (3)** Prerequisites: BUS 241 and Junior Standing. A study of the accounting techniques and methodology utilized for government and other non-profit organizations. Coverage includes state and local governments, colleges and universities, hospitals, voluntary health and welfare agents, and other non-profit organizations.

**BUS 445 Federal Tax Accounting I (3)** Prerequisite: Junior Standing. General knowledge of the principles of income tax laws and sufficient knowledge of the technical aspects thereof to acquire competency in the preparation of individual income tax returns.

BUS 446 Federal Tax Accounting II (3) Prerequisite: BUS 445. General overview of income tax laws as they relate to partnerships, corporations, fiduciaries, estates and trusts, gifts, and tax research and planning.

BUS 447 Accounting Analysis, Forecasting, and Decision Making (3) Prerequisites: BUS 340, 348. Focus is on further developing accounting and business skills that will add value to organizations. These include financial analysis skills, financial forecasting skills, research (or professional standards) skills, decision modeling skills, decision-making skills, communication skills, teamwork skills, and strategic thinking skills. Involves analysis of case situations in which knowledge from courses in law, financial accounting, and cost accounting are integrated and applied.

BUS 449 Risk Analysis and Accounting Controls (3) Prerequisites: BUS 340, 342, 348. Study of business risk identification, accounting internal controls evaluation, and response to control deficiencies development. Involves analysis of cases in which knowledge from courses in financial accounting, cost accounting, and accounting information systems is integrated and applied.

BUS 454 Total Compensation (3) Prerequisite: Junior Standing. This course focuses on the design and management of total compensation programs. The course will examine the internal consistency and external competitiveness of wage structures and how organizations assign pay rates to various jobs. Students will apply procedures to conduct job evaluation, and tie pay plans to employee performance and skill development. Further, they will assess and recommend benefits plans, such as healthcare insurance, pensions, and legally-mandated benefits; and other incentives, such as tuition reimbursement, flexible schedules.

BUS 455 Employment Law and Labor Relations (3) Prerequisite: Junior Standing. This course focuses on the workplace relationship between employer and employee. Students will explore activities that maintain relationships and working conditions that balance employer and employee needs and rights. Further, students will identify plans and policies which provide a safe and secure working environment and protect the organization from liability.

BUS 456 Strategic Human Resource Management (3) Prerequisites: BUS 354, 355, 454, 455. This course examines the role of human resource management practitioners and leaders as a strategic partner to business unit leaders. Students will be able to demonstrate how strategic human resource management influences, contributes to and supports the organization's mission, values, and strategic objectives. Further, students will apply tools, such as a human resource management scorecard, and processes to formulate policies, conduct cost/benefit analysis for human resource management interventions, and measure human resource management's contributions to organizational effectiveness.

BUS 457 Topics in Globalization (3) Prerequisite: Junior Standing. Current or special issues in a changing global economy will be examined in a multi-disciplinary approach. The course offers students the opportunity to research and discuss current issues facing society and the impact on functional areas of international business, such as marketing, finance, banking, economics, management, and human resources. Course may not be repeated.

BUS 470 Marketing Management (3) Prerequisites: BUS 374 and completion of 105 semester credit hours. The capstone marketing course designed to help the student with the transition to the marketing world. Included in the course will be current literature and research, in-depth study of marketing plans and strategies, and/or marketing cases/marketing simulations.

BUS 471 Principles of Supervision (3) Prerequisite: Junior Standing. This course concentrates on the skills needed by first-line supervisors. Issues covered include the following: supervisor's job description, organizing an effective department, acquiring employees, motivation, effective leadership, communication skills, supervising groups and work teams, labor relations and supervisory challenges in the 21st century.

BUS 475 Consumer Purchasing and Motivation (3) Prerequisite: BUS 370. The consumer's role in the marketing structure. Patterns of consumer expenditure and the psychological and controlling activities involved in the administration of a marketing program.

BUS 476 Retail Management (3) Prerequisites: BUS 350, 370. Retail store organization and operation. Topics include location and layout, retail buying techniques, human relations, and employee supervision. Pricing and merchandising are explored.

BUS 479 Advertising Plans/Campaign (3) Prerequisite: BUS 374. The student will develop an advertising plan for a product, service, or business complete with objectives, positioning statement, media plan, budget, and creative work.

BUS 480 Business Research (3) Prerequisite: BUS 226 and Junior Standing. Survey of research procedures and techniques including information sources, designs, instrumentation, analysis, interpretation and presentation of research findings.

**Eligible seniors may enroll in 500 level graduate courses. Students who intend to apply 500 level courses toward a graduate program need to make that request to the Dean of the School of Business and Technology.**

#### Graduate Courses

BUS 507 Foundations of Accounting and Finance (3) Prerequisite: Approval of MBA Director. This course is

designed to provide the student with a working knowledge of the fundamentals of accounting and finance from a decision maker's perspective. (MBA foundation course)

**BUS 509 Foundations of Management and Marketing (3)**  
Prerequisite: Approval of MBA Director. This course is designed to provide the student with a working knowledge of the fundamentals of management and marketing from a decision maker's perspective. (MBA foundation course)

**BUS 535 Student to Business Consulting (3)** See BUS 435.

**BUS 565 Foundations of Quantitative Techniques (3)** Prerequisite: Approval of MBA director. This course is designed as a review of quantitative techniques for MBA students. Topics include statistical tools, quantitative methods, and mathematical modeling.

**BUS 602 Issues in Business Education (3)** Analysis of current issues in secondary and post-secondary business education. Emphasis is on topics such as the business curriculum, curriculum evaluation, analysis of current literature, program funding, facilities development, and other business education theories and practices.

**BUS 608 Financial Administration (3)** Prerequisites: CBK accounting, CBK business finance or BUS 507. A study of financial decision making in the firm; development of a decision-making framework for determining the most efficient allocation of resources within the firm; emphasis placed on the analysis of capital investment projects, long-term sources of funds and short-term financing problems.

**BUS 610 Managing in Turbulent Times (3)** This course integrates concepts from General Systems Theory, systems dynamics, and management to present a comprehensive picture of adapting an organization to a turbulent environment. Included will be concepts from demographics, diversity, political and social arenas.

**BUS 620 Managerial Communications (3)** Application of principles of communication to the managerial setting. The course investigates the influence of organizational climate, manager's style and use of motivation on the communication process. Communication strategies appropriate to business reports, speeches, interviews, and conferences are explored along with emphasis on managerial problems with employee communication and conflict management. The course includes a focus on methods of analyzing and resolving communication problems.

**BUS 621 Seminar in Business Education Instruction (3)** A study of the methods used in teaching courses in the basic business and office occupations/technology areas. Course activities include evaluation and development of teaching materials, study of various teaching methodologies, student/teacher presentations, and discussions of instructional issues in the field of Business Education.

**BUS 625 Decision Science (3)** Prerequisites: CBK statistics or ECO 501. Underlying structure of quantitative business decisions and their solution. The course emphasizes problem recognition, formulation, and analysis, using software to perform necessary calculations. Topics may include linear programming, goal programming, simulation, queuing and other MS/OR techniques.

**BUS 627 Ethics in Leadership (3)** This course will examine classic cases of business and industry. As part of thorough analysis, the course considers firm actions within an ethical framework. The class will also discuss what we can learn about the traits of ethical leadership. The development and implementation of an ethical code and the need for continual ethical training is explored. As a backdrop to this discussion, the student will complete an assessment of his/her ethical character traits.

**BUS 630 Workshop in Business Education (1-3)** Presentations dealing with current subjects, trends or problems in business education. The course emphasizes free discussion, exchange of ideas, demonstration of methods and practical application of skills and principles. May be repeated up to six (6) hours.

**BUS 632 Information Systems Technology and Management (3)** Prerequisite: CBK management or BUS 509. A course that addresses the operational, tactical, and strategic considerations associated with information systems within organization subunits, within an organization, and between organizations. Emphasis is placed on the relationship between organizations and their information systems. Cross-listed as CIS 632.

**BUS 640 Research in Business and Information Technology Education (3)** Application of educational research techniques developed in EDU 650. Emphasis will be placed on development of research methods and procedures, literature review, and data gathering, analysis and interpretation. Non-thesis option students will complete their file paper requirement in this course.

**BUS 651 International Business (3)** The course addresses the following topics: international business trends; the cultural, political, legal, financial, and economic environment of international business; managing business functions in an international setting; the impacts governments can have on international business.

**BUS 652 Management Accounting (3)** Prerequisite: CBK accounting or BUS 507. An examination of management uses of accounting data with particular reference to decision-oriented cost classification, methods of cost estimation, data appropriate for decision models, standards and controls, and special problems.

**BUS 656 Marketing Administration (3)** Prerequisite: CBK marketing or BUS 509. A study of concepts useful in understanding marketing systems and buyer behavior and developing skills in making marketing decisions.

Topics include marketing strategy, decision models, market segmentation, promotional strategy and product management.

BUS 665 Leadership Seminar (3) This course provides students with context and background for the consideration of leadership from multiple perspectives. The course explores leadership theory and practice. Special emphasis is placed on the translation of theory into practice. The evolution of leadership thought, situational leadership, and the future of leadership are also explored.

BUS 690 Seminar in Organizational Behavior (3) Prerequisite: CBK management or BUS 509. Examination and analysis of the organization as a social system and the impact of

its various components on work attitudes and behavior; topics include the development of organizational structures, organizational effectiveness, decision making and policy formulation, leadership and change.

BUS 692 Administrative Policy (3) Prerequisites: All CBK courses and/or foundation courses and satisfactory completion of 24 credit hours in the MBA program or approval of MBA Director. Analysis of policy formulation and implementation from a company-wide standpoint; emphasis on integration of knowledge and approaches across functional areas; both endogenous and exogenous factors that affect company policies; and the role of the firm in society.

**Career Education (CED)  
Technology & Applied Science Department  
School of Business & Technology  
Benthack Building**

The offerings in Career Education are provided for the student preparing to teach in career education programs at the secondary or post-secondary level.

**Field Endorsements in Business Education, Family and Consumer Sciences, Family and Consumer Sciences-Related Occupations, Marketing Education, or Trades and Industrial Education**

The specific career education course requirements for the Business Education, Family and Consumer Sciences Education, Family and Consumer Sciences-Related Occupations, Marketing Education or Trades and Industrial Education endorsements are outlined in the appropriate sections of this catalog.

**Supplemental Endorsement in Cooperative Education-Diversified Occupations: 9 hours + work experience**

Persons with this endorsement may coordinate, teach, and supervise programs of instruction that develop job-related skills applicable to a variety of careers. This endorsement is a supplementary endorsement that would accompany a field endorsement or 2 subject endorsements.

CED	417/517 Principles of Career Education.....	3
	423/523 Coordinating Techniques.....	3
	463/563 Intro to Voc Special Needs .....	3

In addition, this supplemental endorsement is available only to those who have either (A) 1,000 verified hours of paid, volunteer or internship work experience, or (B) at least 300 hours of supervised work experience under the direction of the college or university recommending the endorsement.

**Undergraduate Courses**

CED 417/517 Principles of Career Education (3) This course will provide students with the understanding of the five relationships critical for planning and implementing a career education program; politics and government, academics and total school offerings, student achievement and life

application, business and industry and the individual's role as a professional educator. Career Education reflects the historical, evolutionary, and technological changes in career education, the impact of legislation, work and demand for new knowledge and skills in a global economy.

CED 423/523 Coordinating Techniques (3) The study of cooperative programs in career and technical education with emphasis in the areas of business, family and consumer sciences, and trade and industrial education. Comparative philosophies of career and technical (vocational) and general education and their relation in the comprehensive school program. Stresses the organization of the cooperative program, supervision techniques, functions of the coordinator, selection and placement of students, and the evaluation of training situations and vocational competencies.

CED 463/563 Introduction to Vocational Special Needs (3) Prerequisite: SPD 151. A course designed to assist teachers and future teachers in identifying students with vocational special needs. Consideration will be given to those characteristics of disadvantaged, handicapped and gifted students as set forth in federal legislation. Emphasis will be placed on changing teachers' attitudes toward these students. Information concerning funding and teacher certificates will be an integral part of this course.

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

CED 517 Principles of Career Education (3) See CED 417.

CED 523 Coordinating Techniques (3) See CED 423.

CED 563 Introduction to Vocational Special Needs (3) See CED 463.

CED 650 Curriculum Development in Career/Technical Education (CTE) (3) Professional development for educators in the disciplines of Vocational Agriculture, Business and Marketing Education, Cooperative Education, Family & Consumer Science, Guidance & Counseling, Health Occupations, and Industrial Technology Education. A "hybrid"

course requiring mandatory registration/attendance at the Nebraska Career Education (NCE) Conference in Kearney, NE. The follow-up online component focuses on current issues, trends and curriculum development in Career and Technical Education, with required participation in online chats and discussion boards. May be repeated one time for an additional three hours of credit.

CED 697 Career and Technical Education Internship (9-12) A work experience program with not less than nine 40-hour weeks, or 360 clock hours, to qualify students for teaching

in career and technical education programs. The internship includes a wage-earning experience in an approved manufacturing, construction, processing, or service industry. Ten hours of seminar are required to relate the work experience with vocational certification policies, labor relations, vocational guidance, and comparisons of school and industrial methods. The coordinator and industrial personnel supervise the internship. Application must be made one semester in advance and approved by the coordinator for vocational education/career and technical education.

### Chemistry (CHE)

#### Physical Sciences & Mathematics Department School of Natural & Social Sciences Carhart Science Building

**Objectives:** The offerings in Chemistry are for those students desiring a combination of scientific and professional knowledge that will assist them in rendering a service to the world in which science is of fundamental importance. The courses are basic to pre-professional areas and to careers in science.

#### Major in Chemistry (BA or BS) 39-56 hours

##### Chemistry Core: 16-17 hours

BIO 110 must be taken as the Block 2 Life Science General Education requirement.

Computer literacy requirements in the discipline will be addressed in CHE 305.

CHE	106 General Chemistry I	4
	107 General Chemistry II	4
	305 Analytical Chemistry	4
PHY	201 General Physics I (3) <b>or</b>	
	301 University Physics I (4)	3-4
	321 Physics Laboratory I	1

Plus one of the following concentrations:

##### Subject Endorsement-Chemistry Education Concentration: 23 hours + core

MAT 130 Pre-Calculus Math (5) **or both** MAT 121 College Algebra (3) **and** MAT 122 Applied Trigonometry (1) must be taken as the Block 2 Mathematics General Education requirement.

CHE	208 Intro Organic Chem <b>or</b>	
	314 Organic Chem I	4
	326 Biochemistry I	4
	393 Laboratory Techniques	1
	456 Physical Chemistry I	3
	493 Laboratory Management	1
EAS	110 Introduction to Meteorology <b>or</b>	
	120 Intro to Geology	4

BIO, CHE, NAT, PHY elective courses numbered 300 or above.....6

EDU 409 Science Content Area Methods and Materials is required. A second subject endorsement is required for Nebraska state certification.

**Chemical Sciences Concentration: 37-38 hours + core**  
MAT 140 Calculus I (5) must be taken as the Block 2

Mathematics General Education requirement.

CHE	314 Organic Chemistry I	4
	315 Organic Chemistry II	4
	370 Introduction to Research	1
	380 Instrumental Analysis	4
	390 Inorganic Chemistry	3
	393 Laboratory Techniques	1
	456 Physical Chemistry I	3
	457 Physical Chemistry II	3
	458 Physical Chemistry Lab	1
	470 Research Project	1
	493 Laboratory Management	1

PHY	202 General Physics II <b>or</b> (3)	
	302 University Physics II (4)	3-4
	322 Physics Laboratory II	1

Chemistry electives numbered 300 or above.....7

Up to 4 hours of CHE 490 may be counted toward CHE electives.

##### Chemistry Health Sciences Concentration: 37-38 hours + core

MAT 140 Calculus I (5) must be taken as the Block 2 Mathematics General Education requirement.

BIO	220 Human Anatomy	4
	320 Molecular Genetics	4
	340 Human Physiology	4
CHE	314 Organic Chemistry I	4
	315 Organic Chemistry II	4
	326 Biochemistry I	4
MAT	180 Applied Probability & Stat	3
PHY	202 General Physics II (3) <b>or</b>	
	302 University Physics II (4)	3-4
	322 Physics Laboratory II	1

Electives (choose from list below) .....6

CHE	380 Instrumental Analysis (4)	
	390 Inorganic Chemistry (3)	
	426 Biochemistry II (3)	
	456 Physical Chemistry I (3)	

##### The B.S. in Health Sciences will also be awarded when a student:

- Completes 95 semester hours of a prescribed pre-professional curriculum accepted by WSC and successfully completes the first year of the approved professional program at a professional school awarding Master's or Doctoral degrees. (3+1 degree) Students register at WSC for HSC 498 (no tuition

requirement) for 30 hours and complete one year of course work in an approved professional program.

OR

- b. Completes a minimum of 63 hours of a prescribed pre-professional curriculum accepted by WSC and successfully completes the first two years of the approved professional program at a professional school awarding Master's or Doctoral degrees (2+2 degree), where MS or Doctorate is the sole professional degree offered. Students register at WSC for 31 hours of HSC 498 (no tuition requirement) in both their junior and senior years and complete two year of course work in an approved professional program.

### Minor in Chemistry: 21 hours

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

CHE 106 General Chemistry I .....	4
107 General Chemistry II .....	4
305 Analytical Chemistry .....	4

Electives.....9

9 hours of Chemistry electives selected by advisement.

In addition to General Education requirements, students must meet the computer literacy requirements of the Math and Sciences departments. NAT 112 Introduction to Personal Computers or any course with a CSC prefix meets this requirement.

### Undergraduate Courses

CHE 102 Chemistry for General Education (3) Selected topics of chemistry to be presented by laboratory-oriented approach and in compliance with requirements of General Education. Does not apply to any major, minor, or endorsement in any science area (BIO, CHE, EAS, NAT, PHS, PHY) unless specified. (4 hours of laboratory-lecture combined)

CHE 106 General Chemistry I (4) Prerequisite: High school chemistry or CHE 102. Emphasis on nomenclature, atomic structure, bonding, gaseous and liquid states, equilibrium, and stoichiometry. (3 hours of lecture and 3 hours of laboratory)

CHE 107 General Chemistry II (4) Prerequisite: C- or better in CHE 106 or by consent of instructor. A continuation of CHE 106 with emphasis on kinetics, redox reactions, molecular geometry, hydrolysis, electrochemistry, and solubility products. Qualitative analysis included. (3 hours of lecture and 3 hours of laboratory)

CHE 208 Introductory Organic Chemistry (4) Prerequisite: C- or better in CHE 107. Emphasis on nomenclature, functional groups, and organic structures as related to living matter. (3 hours of lecture and 3 hours of laboratory)

CHE 301 Introduction to Clinical Chemistry (1) Prerequisite: Three semesters of college chemistry. Introduction to Medical Laboratory, including visitations and observation in a hospital laboratory. Does not apply to subject endorsement.

CHE 305 Analytical Chemistry (4) Prerequisite: CHE 107. Emphasis on theories and application of quantitative analysis including gravimetric and volumetric procedures. (3 hours of lecture and 3 hours of laboratory)

CHE 314 Organic Chemistry I (4) Prerequisite: C- or better in CHE 107. The chemistry of carbon compounds, type reactions, mechanisms and applications. (3 hours of lecture and 3 hours of laboratory)

CHE 315 Organic Chemistry II (4) Prerequisite: C- or better in CHE 314. A continuation of CHE 314. (3 hours of lecture and 3 hours of laboratory)

CHE 326 Biochemistry I (4) Prerequisite: C- or better in CHE 208 or 315. Study of proteins, lipids, nucleic acids, and carbohydrates with emphasis on their structure, function, and metabolism. (3 hours of lecture and 3 hours of laboratory)

CHE 370 Introduction to Research (1) Prerequisite: 8 hours of Chemistry. This course is designed for Chemistry majors as an introduction to scientific writing, library research, data collection and data analysis. The student will be expected to use the skills learned in this course to establish a proposal for a research project for CHE 470.

CHE 380 Instrumental Analysis (4) Prerequisite: C- or better in CHE 305. Instrumental analysis in qualitative and quantitative procedures employing IR, UV, visible and atomic absorption spectrometers as well as other modern instruments such as gas chromatographs and electroanalytical system. (3 hours of lecture and 3 hours of laboratory)

CHE 390 Inorganic Chemistry (3) Prerequisites: C- or better in CHE 107. Principles and theories of inorganic chemistry.

CHE 393 Laboratory Techniques (1) Prerequisite: C- or better in CHE 107. Introduction to the direction of students in freshman or sophomore laboratories. Preparation of solutions, supervision of laboratory activities, evaluation of laboratory reports and instruction in the principles of laboratory safety. (3 to 6 hours a week) Cannot be repeated.

CHE 400 Environmental Chemistry (3) Prerequisite: C- or better in CHE 107. A combined lecture-laboratory course with emphasis on man's intrusion into the natural chemical processes of the biosphere. Topics in industrial effluence, energy sources, plastics, detergents, fertilizers, biocides, trace metals, human waste, etc., which lead to pollution of the air and water.

CHE 426 Biochemistry II (3) Prerequisite: C- or better in CHE 326. Bioenergetics, membrane transport, enzymes, mechanisms, and special topics in intermediary metabolism.

CHE 456 Physical Chemistry I (3) Prerequisite: CHE107. Investigations into the properties of ideal and real gases, the first and second laws of thermodynamics, the thermodynamics of pure substances, simple mixtures, chemical equilibrium, and equilibrium electrochemistry.

CHE 457 Physical Chemistry II (3) Prerequisite: C- or better in CHE 456 or by permission of instructor. Investigations into special relativity, quantum theory, atomic structure, atomic spectra, molecular structure, molecular spectroscopy: including rotational, vibrational, electronic, and magnetic resonance spectroscopy. Cross-listed as PHY 457 Modern Physics.

CHE 458 Physical Chemistry Lab (1) Prerequisite or co-requisite: CHE 456. Laboratory investigations of physical chemistry concepts including: the properties of gases, thermochemistry, chemical equilibrium, quantum chemistry, and spectroscopy. (3 hours lab)

CHE 470 Research Project (1) Prerequisite: CHE 370. This course is a continuation of CHE 370. Students will take this course as a means of completing their individual research project under the direction of a chosen instructor. A presentation of this research in both oral and written form is required at the conclusion of the course. This course may be repeated up to three hours.

CHE 490 Chemistry Seminar (1-2) Prerequisite: 16 hours of Chemistry courses. An advanced course of study for chemistry majors. Research and advanced reading in an area chosen by the student and the instructor in charge. Course may be repeated with different topics.

CHE 493 Laboratory Management (1-2 maximum of 2 hours) Prerequisite: C- or better in CHE 393. Management of advanced laboratories. Preparation of reagents, maintenance of equipment, laboratory supervision, evaluation

of student performance, grading of laboratory notebooks, instructions in experimental design. (6-12 hours a week)

**Eligible seniors may enroll in 500 level graduate courses.**

**Graduate Courses**

CHE 500 Environmental Chemistry (3) A study of natural chemical processes in the biosphere. Special emphasis on topics in industrial effluents, air and water pollution, and the safe disposal, treatment and storage of waste.

CHE 610 Modern Inorganic Chemistry (3) Selected inorganic topics of special interest to secondary science teachers. Emphasis will be placed on the development of new laboratory and demonstration material.

CHE 616 Organic and Biological Chemistry for Teachers (3) A review of Organic Chemistry and functional groups important in biological molecules. Selected topics dealing with the role and suitability of biomolecules as they relate to living processes. Emphasis will be placed on current developments in both Biochemistry and Biotechnology.

CHE 650 Computer Applications in Chemistry and Science Education (3) The use of computers for classroom instruction activities including data collection, analysis and presentation. Interfacing computers with simple laboratory apparatus including spectrophotometers, pH meters, balances and other common laboratory equipment. The use of computer networks for transferring data between students, teachers and scientists at remote locations as well as using the Internet for locating scientific information will be presented.

**Communication Arts (CNA)  
Communication Arts Department  
School of Arts & Humanities  
Humanities Building**

The Department of Communication Arts consists of the Speech Communication, Mass Communication, and Theatre programs. The department is an interdisciplinary unit that offers students the opportunity to develop practical communication skills through application in oratory and rhetoric, the performing arts, technology and media, as well as understanding of the theories and ethical tenets that are the cornerstone of the study of communication. Students are encouraged to complete internships, co-ops, honors projects, travel abroad, and service learning opportunities as part of their undergraduate experience. The Bachelor of Arts degree is preferred for all Communication Arts Majors. See B.A. degree requirements.

In accordance with the college's policy on assessment of student work, each student is required to compile a portfolio of work examples from courses taken in the major. The portfolio is intended to act as additional evidence of student accomplishment and skills. Items can include, but are not limited to: student performances and speeches, resumes, video and audio productions, research reports, design projects, articles published, etc. A student's portfolio will be developed with the student's advisor to reflect each area of student competence.

Students seeking the 48-hour major must complete a 36-hour major in Mass Communication or Speech Communication and select additional advisor approved course work to a total of 48 hours.

CNA 220/320/420 and the 300 level Special Courses for the Honors Program/Neihardt Scholars may be applied to any Communication Arts major.

**Major in Mass Communication (BA or BS) 36 hours**

The Mass Communication program instills knowledge of professional standards and social responsibilities for careers in the areas of print, broadcast, and online communications.

The Mass Communication program area has two concentrations: Broadcasting and Journalism. All students in the Mass Communication program must complete the fifteen hour core and a twenty-one hour concentration area. If the student selects the 48 hour major option for either concentration, the student with his/her advisor will choose twelve hours from the list of electives that does not duplicate courses in the concentration area.

**Mass Communication Core Courses: 15 hours**

CNA	262 Writing for the Mass Media.....	3
	263 Introduction to Mass Communication.....	3
	372 Journalism Ethics.....	3
	400 Portfolio Seminar.....	0
	471 Mass Media and Society.....	3

475 Communication Law .....3

Plus one of the following concentrations:  
**Broadcasting Communication Concentration: 21 hours + 15 hour core**

CNA 162 Radio Production I.....3  
 R,V220/320/420 Comm Arts Workshop.....6  
 373 Video Production I.....3  
 379 Broadcast Management .....3  
 390 Broadcast Journalism.....3  
 473 Video Production II .....3

Choose 12 hours of electives for the Broadcast Communication Concentration 48 hour major: ..... 12

BUS 370 Principles of Marketing (3)  
 374 Principles of Advertising (3)

CNA 223 Acting (3)  
 240/440 Intercollegiate Forensics (1-3)  
 252 Public Address (3)  
 297/397/497 Internship in Broadcasting (3)  
 301 Advertising Copywriting (3)  
 374 Public Relations (3)  
 375 Intercultural Communication (3)  
 378 Television Performance (3)  
 387 Lighting (3)  
 389 Photojournalism (3)  
 391/491 Special Project in Comm. (3)  
 426 Worldwide Web Development (3)  
 450 Computer Layout & Presentation (3)  
 453 Integrated Marketing Communication (3)  
 454 Advanced Web Development (3)  
 457 Special Topics in Mass Comm. (3)

ENG 200 Expository Writing (3)  
 GEO 305 Political Geography (3)  
 ITE 363 Digital Photography (3)  
 POS 300 State and Local Politics (3)  
 350 The American Presidency (3)  
 380 Public Policy (3)

Broadcast concentration students may take up to four additional hours of workshop classes as electives in the 48 hour major.

**Journalism Concentration: 21 hours + 15 hour core**

CNA J220/320/420 Comm. Arts Workshop.....6  
 280 News Writing.....3  
 290 Editing and Copy Editing **or**  
 450 Comp Layout & Presentation .....3  
 389 Photojournalism.....3  
 458 Adv News Writing and Reporting .....3  
 497 Journalism Internship .....3

Choose 12 hours of electives for the Journalism Concentration 48 hour major:..... 12

BUS 370 Principles of Marketing (3)  
 374 Principles of Advertising (3)

CNA 301 Advertising Copywriting (3)  
 374 Public Relations (3)  
 375 Intercultural Communication (3)  
 391/491 Special Project in Comm. (3)  
 426 Worldwide Web Development (3)  
 453 Integrated Marketing Communication (3)  
 454 Advanced Web Development (3)  
 457 Special Topics in Mass Comm. (3)

463 Advanced Media Writing (3)

ENG 200 Expository Writing (3)  
 321 Literary Editing (3)  
 325 Structure of English (3)  
 326 Linguistic Theory & Apps (3)

GEO 305 Political Geography (3)  
 ITE 363 Digital Photography (3)  
 425 Desktop Publishing (3)

POS 300 State and Local Politics (3)  
 350 The American Presidency (3)  
 380 Public Policy (3)

Journalism concentration students may take up to three additional hours of Workshop classes as electives in the 48 hour major.

**Minor in Broadcast Communication: 21 hours**  
 A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

CNA 162 Radio Production I.....3  
 R,V220/320/420 Comm. Arts Wksps .....3  
 262 Writing for the Mass Media.....3  
 263 Introduction to Mass Comm.....3  
 373 Video Production I.....3  
 390 Broadcast Journalism.....3  
 471 Mass Media and Society.....3

**Minor in Editing and Publishing: 21 hours**  
 A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s). Complete at least 50% of the hours in the minor at the 300-400 level. Also listed in the English section.

BUS 370 Principles of Marketing .....3  
 CNA 450 Computer Layout & Presentation **or**  
 ITE 425 Desktop Publishing.....3  
 ENG 321 Literary Editing .....3

Writing courses (at least 3 hrs upper level) selected from:12

CNA 262 Writing for the Mass Media (3) **or**  
 280 News Writing (3)  
 290 Editing and Copy Editing (3)  
 430 Playwriting (3)  
 458 Adv News Writing and Reporting (3)

ENG 200 Expository Writing (3)  
 202 Poetry Workshop (3)  
 203 Fiction Workshop (3)  
 402 Adv Poetry Workshop (3)  
 403 Adv Fiction Workshop (3)

**Minor in Journalism: 21 hours**  
 A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

CNA J220/320/420 Journalism Wksp.....3  
 262 Writing for the Mass Media.....3  
 263 Introduction to Mass Comm.....3  
 280 News Writing.....3  
 290 Editing and Copy Editing **or**  
 450 Comp Layout & Presentation .....3  
 458 Adv News Writing and Reporting .....3  
 471 Mass Media and Society.....3

**Minor in Online Media: 21 hours**  
 A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

- CNA 426 Worldwide Web Development.....3
- Plus 18 hours from the following: ..... 18
- ART 202 Typography (2)
- 330 Graphic Design I (3)
- BUS 370 Principles of Marketing (3)
- CIS 130 Intro to Computer/Info Tech (3)
- 140 Intro to Microcmpr Oper Sys (3)
- CNA 263 Intro to Mass Communication (3)
- 301 Advertising Copywriting (3)
- 450 Computer Layout & Presentation (3)
- 454 Advanced Web Development (3)
- 462 Communication Research (3)
- 471 Mass Media and Society (3)
- 475 Communication Law (3)
- CSC 150 Programming Fundamentals I (3)
- 160 Programming Fundamentals II (3)

**Major in Speech Communication (BA or BS) 36 hours**

The Speech Communication program prepares students for careers in corporate, community, and public relations, organizational leadership, organizational consulting, law, ministry, politics, and public service.

The Speech Communication program area has two concentrations: Communication Studies and Organizational Leadership and Public Relations. All students in the Speech Communication program must complete the eighteen hour core and an eighteen hour concentration area. If the student selects the 48 hour major option for either concentration, the student with his/her advisor will choose twelve hours from the list of electives that does not duplicate courses in the concentration area.

**Speech Communication Core Classes: 18 hours**

- CNA 201 Small Group Communication or
- 210 Interpersonal Communication .....3
- 252 Public Address .....3
- 317 Argumentation .....3
- 346 Organizational Comm I\* .....3
- 442 Comm and Rhetorical Theory .....3
- 455 Senior Seminar in Communication Arts.....3

*\*BUS 350 may be substituted for CNA 346 for students in the Organizational Leadership and Public Relations concentration.*

Plus one of the following concentrations

**Communications Studies Concentration: 18 hours + 18 hour core**

Choose 18 hours from the following: ..... 18

- CNA 240/440 Intercollegiate Forensics (1-3)
- 302 Language and Human Behavior (3)
- 342 Persuasion (3)
- 352 Organizational Presentations (3)
- 375 Intercultural Communication (3)
- 448 Organizational Communication II (3)
- 459 Organizational Leadership (3)
- 462 Communications Research Methods (3)
- 470 Family Communication (3)
- 471 Mass Media & Society (3)

**Organizational Leadership and Public Relations Concentration: 18 hours + 18 hour core**

Choose 18 hours from the following: ..... 18

- CNA 262 Writing for the Mass Media (3)
- 352 Organizational Presentations (3)
- 374 Public Relations (3)
- 375 Intercultural Communication (3)
- 377 Public Relations Writing (3)
- 448 Organizational Communication II (3)
- 450 Computer Layout & Presentation (3)
- 452 Public Relations Case Studies (3)
- 453 Integrated Marketing Communication (3)
- 458 Advanced News Writing and Reporting (3)
- 459 Organizational Leadership (3)
- 460 Leadership Theory (3)
- 461 Case Studies in Organizational Leadership (3)
- 478 Communication Ethics (3)

Other courses by advisement for the 48-hour Communication Studies & the Organizational Leadership and Public Relations concentration areas. Choose 12 hours unduplicated in the concentration: ..... 12

- BUS 208 Business Communications (3)
- 360 Management Theory and Practice (3)
- 367 Foundations of Human Resource Management (3)
- 370 Principles of Marketing (3)
- 374 Principles of Advertising (3)
- CNA 240/440 Intercollegiate Forensics (1-3)
- 263 Introduction to Mass Communication (3)
- 280 News Writing (3)
- 318 Play Directing (3)
- 374 Public Relations (3)
- 418 Health Communication (3)
- 426 Worldwide Web Development (3)
- 450 Computer Layout & Presentation (3)
- 452 Public Relations Case Studies (3)
- 453 Integrated Marketing Communication (3)
- 457 Special Topics in Communication (3)
- 470 Family Communication (3)
- 471 Mass Media and Society (3)
- 475 Communication Law (3)
- PSY 435 Industrial/Organizational Psychology (3)
- SSC 300 Social Science Research Methods (3)
- 319 Statistics for the Social Sciences (3)

**Minor in Speech Communication: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

Select 21 hours from the following:.....21

- CNA 201 Small Group Communication (3)
- 210 Interpersonal Communication (3)
- 252 Public Address (3)
- 302 Language and Human Behavior (3)
- 317 Argumentation (3)
- 346 Organizational Communication I (3)
- 375 Intercultural Communication (3)
- 418 Health Communication (3)
- 442 Comm and Rhetorical Theory (3)
- 470 Family Communication (3)
- 471 Mass Media & Society (3)

**Minor in Theatre: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

- CNA 101 Introduction to Theatre .....3

223 Acting .....3  
 232 Stagecraft.....3  
 318 Play Directing .....3  
 333 American Theatre **or**  
 386 Modern World Drama.....3  
 335 Theatre History ..... 3  
 337 Costumes and Makeup for the Stage **or**  
 387 Lighting .....3

**Journalism and Mass Communication Subject Endorsement (BA or BS) 30 hours**

CNA 262 Writing for the Mass Media.....3  
 263 Introduction to Mass Comm.....3  
 280 News Writing.....3  
 290 Editing and Copy Editing **or**  
 450 Comp Layout & Presentation .....3  
 301 Advertising Copywriting **or**  
 BUS 374 Principles of Advertising .....3  
 CNA 346 Organizational Communication I **or**  
 458 Adv. News Writing and Reporting.....3  
 389 Photojournalism.....3  
 390 Broadcast Journalism.....3  
 J420 Journalism Workshop.....3  
 426 Worldwide Web Development.....3

EDU 409 CNA Content Area Methods and Materials must be taken as part of the professional education requirements.

**Speech Communication Subject Endorsement (BA or BS) 36 hours**

CNA 201 Small Group Communication.....3  
 210 Interpersonal Communication .....3  
 252 Public Address .....3  
 240/440 Intercollegiate Forensics.....3  
 317 Argumentation .....3  
 342 Persuasion.....3  
 346 Organizational Communication I .....3  
 375 Intercultural Communication.....3  
 442 Comm and Rhetorical Theory .....3  
 447 Directing Communication Activities.....3  
 455 Senior Seminar in Communication Arts.....3  
 470 Family Communication .....3

EDU 409 CNA Content Area Methods and Materials must be taken as part of the professional education requirements.

**Subject Endorsement in Theatre (BA or BS) 30 hours**

CNA 101 Introduction to Theatre .....3  
 T220/320/420 Theatre Workshop .....3  
 223 Acting .....3  
 232 Stagecraft.....3  
 318 Play Directing .....3  
 333 American Theatre **or**  
 386 Modern World Drama.....3  
 335 Theatre History .....3  
 337 Costumes and Makeup for the Stage .....3  
 432 Play Production in Secondary Schools.....3  
 455 Senior Sem in Comm Arts (theatre sec) .....3

EDU 409 CNA Content Area Methods and Materials must be taken as part of the professional education requirements.

**Field Endorsement in Lang. Arts (BA or BS) 66 hours**

A person with this endorsement may teach and direct curricular and co-curricular activities in composition, language, literature,

speech, theatre, mass communication, journalism, and reading in grades 7 through 12. This endorsement requires 66 semester credit hours in journalism, language, literature, mass communication, reading, speech, theatre, and writing. Also listed under the English section.

Reading

ENG 443 Young Adult Lit .....2  
 444 Dev Rdg-Middle/Sec Sch .....2

Language

ENG 325 Structure of English.....3  
 326 Linguistic Theory & App **or**  
 CNA 302 Language & Human Behavior.....3

Composition

ENG 202 Poetry Workshop **or**  
 203 Fiction Workshop **or**  
 430 Playwriting .....3  
 442 Teaching Writing .....2

Speech

CNA 201 Small Group Communication **or**  
 210 Interpersonal Communication .....3  
 240/440 Intercollegiate Forensics.....3  
 447 Directing Communication Activities.....3

Literature

ENG 270 Critical Approaches to Literature .....3  
 361 American Literature I .....3  
 362 American Literature II .....3  
 371 British Literature I .....3  
 372 British Literature II.....3  
 380 Shakespeare .....3  
 381 Classical Epic and Drama **or**  
 382 The Bible as Literature .....3  
 480 Senior Seminar **or**  
 CNA 455 Senior Seminar in Comm Arts .....3

Mass Media

CNA 263 Introduction to Mass Comm. **or**  
 ENG/CNA 383 Film & Literature .....3

Dramatic Arts

CNA 223 Acting\* .....3  
 232 Stagecraft\* .....3  
 432 Play Prod for Secondary Schools .....3

\*Participation in college productions also required.

Journalism

CNA 280 News Writing.....3  
 290 Editing and Copywriting **or**  
 450 Computer Layout & Present.....3

EDU 409 English Content Area Methods and Materials and EDU 409 CNA Content Area Methods and Materials must be taken as part of the professional education requirements.

*CNA 100 is a prerequisite to all other speech courses except by permission of the department chair.*

**Undergraduate Courses**

CNA 100 Principles of Human Communication (3) Students will acquire knowledge of the elements and models of communication in a variety of situations. In particular, students will learn about the nature of interpersonal, small group, public speaking, and organizational communication. Beyond this, the student will prepare and present speeches

and public presentations in interpersonal, small group, organizational, and public speaking settings and contexts. “C” or above required for teacher education and business administration students.

CNA 101 Introduction to Theatre (3) Understanding and appreciation of the art of theatre, including dramatic literature, technical theatre, production process, and critical evaluation. (2 hours laboratory)

CNA 162 Radio Production I (3) Radio production techniques including analog and digital recording, broadcast writing, announcing, remote recording, and digital editing software. This course will also introduce students to broadcast vocabulary and radio station management structures.

CNA 201 Small Group Communication (3) Explores the functions of discussion in our society, problem solving, group dynamics, and analysis of the operative forces within the group. Emphasis on skills of group discussion, participation in decision-making groups, leadership, organization, and evaluation.

CNA 210 Interpersonal Communication (3) Prerequisite: CNA 100. The study of theories and models of interpersonal communication that enhance understanding and development of interpersonal relationships. Skills are developed in listening behavior, dyadic interaction, relationship and conflict management, verbal and nonverbal communication, and intrapersonal processing.

CNA (J, R, V) 220/320/420/520 Mass Communication Arts Workshop (.5-3) Prerequisite: approval of instructor and advisor. Practical application of skills to direct, produce, and coordinate curricular and co-curricular activities in broadcasting and journalism. Title varies with major area. Workshop hours beyond those required in CNA majors may be taken as electives in the CNA majors or as general elective credits with the permission of the advisor and department chair.

CNA T220/T320/T420/T520 Theatre Workshop (.5-3) Prerequisite: Approval of instructor and advisor. Practical application of skills in stagecraft, lighting, costuming, acting, and/or directing for mainstage production. Enrollment in CNA T220/T320/T420/T520 is required for participation in mainstage productions. Majors must enroll every semester while in attendance at WSC. Workshop hours beyond those required in Theatre may be taken as electives in the CNA majors, but only with the permission of the advisor and department chair.

CNA 223 Acting (3) Exploration of basic acting techniques and performance theory through object exercises, monologues, and scene work. (3 hours lab)

CNA 232 Stagecraft (3) Fundamentals of scenic construction and painting techniques, sound, properties, and stage management. (4 hours lab)

CNA 240/440 Intercollegiate Forensics (1-3) Participation in intercollegiate forensics as well as other public appearances. May be repeated for up to six semester hours.

CNA 252 Public Address (3) Prerequisite: CNA 100. The course builds upon the public speaking skills developed in CNA 100. Students will learn different styles of delivery of speeches, further learn about the development of arguments, how to adapt to audiences of different cultures, and how to be a critical audience member when others are giving speeches.

CNA 262 Writing for the Mass Media (3) An introduction to writing for print, electronic media and corporate communications. Writing skills will be emphasized and differences in writing for various avenues of mass communication writing will be explored. The course will give students the writing fundamentals on which other courses in broadcasting and journalism will expound.

CNA 263 Introduction to Mass Communication (3) An overview of the historical development, technological evolution, current status, and future direction of mass communication. Differences between mass communication systems will be explored, as well as mass communication effects on its audiences.

CNA 280 News Writing (3) An introduction to journalism and journalistic writing. Students in this course work as beginning reporters for the college newspaper.

CNA 290 Editing and Copy Editing (3) Various copy editing activities—learning proofreading symbols, reviewing grammar formation, writing headlines, and study type specifications, the use of graphics, and the ideological effects of editorial decisions—will be pursued to develop aggressiveness, memory, curiosity, imagination, discretion and skepticism.

CNA 301 Advertising Copywriting (3) An introduction to the strategies of writing and speaking for journalism and mass communications, as well as an introduction to the purposes of advertising, sales, and marketing.

CNA 302 Language and Human Behavior (3) Examines in depth the relationship among language, thought, and behavior, emphasizing the role linguistic communication plays in culture and society.

CNA 317 Argumentation (3) Prerequisite: CNA 252 or instructor approval. Introduces students to the art of collaborative inquiry, deliberation, and decision-making. The course explores diverse approaches to ethical and effective inquiry, deliberation, and advocacy, as well as developing the skills necessary to their practice. The course focuses particularly on development of critical thinking and reasoning abilities, self-reflexivity, empathic listening, reading, viewing, and speaking skills, dialogic inquiry, and ethical and effective advocacy skills.

CNA 318 Play Directing (3) Prerequisites: CNA 223, 224, 232, or approval of instructor. Study and practice of basic directing theory starting with play-analysis and proceeding to director-actor-designer relationships in the production process. (3 hour lab)

CNA 322 Children's Theatre (3) Study of all aspects of children's theatre including adaptations of suitable material for performance, acting and designing for young audiences, and participation in the scheduled children's play productions.

CNA 331 Scene Design (3) Prerequisite: CNA 232. Principles and styles of scenic design, drafting, and rendering techniques. (4 hours lab)

CNA 333 American Theatre (3) Study of plays, players, places, and events in American theatre history from the 17th century beginnings to the present. Also cross-listed as ENG 333.

CNA 335 Theatre History (3) Theatre from earliest days through the 18th century with supplemental readings in dramatic literature reflecting the times.

CNA 337 Costumes and Makeup for the Stage (3) Principles and methods of design, planning, and execution of costumes and makeup for the theatre. (4 hours lab)

CNA 339/439 Musical Theatre (3) Problems and techniques of musical theatre in production. May be repeated once for credit.

CNA 342 Persuasion (3) Prerequisites: CNA 201 or 210, 252, 442. The study of contemporary theories of persuasion and their applications. Persuasive appeals in political campaigns, social movements, and advertising are examined.

CNA 346 Organizational Communication I (3) Explores the nature and function of communication in organizations. Emphasis on concepts, skills for effective management of communication, analysis and evaluation of formal and informal patterns of communication in organizations.

CNA 352 Organizational Presentations (3) Develop expertise, poise and confidence in presenting professional informative, persuasive, and small group presentations for public, private, or business organizations.

CNA 372 Journalism Ethics (3) An in-depth investigation of the ethical foundations underlying journalistic conduct.

CNA 373 Video Production I (3) Prerequisite: CNA 162, or permission of instructor. Production and direction techniques of studio and remote production. (Lab hours required)

CNA 374 Public Relations (3) A study of the principles and practices of effective public relations with exercises and projects emphasizing application of media skills for business, educational, and political communication.

CNA 375 Intercultural Communication (3) Prerequisite: CNA 263, waived for ESL and MLC students. A course aimed at developing a thorough understanding of communication and culture, in both global and community settings, and the way members of diverse cultures and subcultures utilize unique systems, symbols and media representation to communicate among themselves and other groups. Emphasis on media representation of minority groups and U.S. sponsored health/public welfare campaigns in developing nations will enable students to critically assess the communication process in a cultural context.

CNA 377 Public Relations Writing (3) This course emphasizes writing skills needed in Public Relations work, awareness of Public Relations as a management strategy, the role of Public Relations in generating social awareness and responsibility, and the study of ethics in Public Relations.

CNA 378 Television Performance (3) This course focuses on basic performance techniques that are used in work as a newscaster, an interviewer or a talk show host, and an actor in commercials. Special emphasis will be placed on developing roles for dramatic or comedic scenes.

CNA 379 Broadcast Management (3) This course will focus on management practices in radio and television operations: budgeting, staff, audience research, programming, promotions, sales, labor relations, government regulations, and community responsibility.

CNA 380 Shakespeare (3) Directed reading of Shakespeare's plays and poetry against the background of Renaissance culture. Cross-listed as ENG 380.

CNA 383 Film and Literature (3) An on-going series of courses concerned with the relationship (thematic, generic, social-historical, etc.) between cinema and literature. CNA/ENG/FRE 383 repeatable once for credit. This course is cross-listed as ENG 383 and FRE 383.

CNA 386 Modern World Drama (3) Readings of representative global dramatists in translations from Ibsen to the Post-Moderns. Cross-listed as ENG 386.

CNA 387 Lighting (3) Principles and practices of stage lighting, electricity, color, and effective use of lighting equipment. (4 hours lab)

CNA 389 Photojournalism (3) An introduction to planning, shooting, and processing still photographs for newspapers, magazines, and other print media. Designed for the student with little or no background in news photography. Laboratory experience on the college newspaper.

- CNA 390 Broadcast Journalism (3) Prerequisites: CNA 162, 262, 373. An overview of broadcast journalism from newsroom organization to basic broadcast news writing skill development including the complexities of covering stories in the field, compressing news stories to time limits, rewriting news stories from wire services, and compiling weekly newscasts and feature presentations.
- CNA 400 Portfolio Seminar (0) Prerequisite: 90 hours. Students will present a cumulative portfolio of work that demonstrates the growth of their abilities in multiple areas of mass communication. The portfolio may include any of the following types of student work: writing, photography, audio, video, or electronic media projects. Faculty will review the portfolio and conduct a qualitative exit interview for the purpose of program review and assessment. The review of the portfolio and the exit interview must be completed in order to graduate. Carries no credit. S/NC
- CNA 418 Health Communication (3) Explores theories, research, and applications of the symbolic processes by which people, both individually and collectively, understand and share ideas about health and illness. The course focuses on the communicative implications of health beliefs, practices, and policies with special emphasis on the core communication competencies of a health citizen, as well as the communication challenges for the health care practitioner.
- CNA 419 Advanced Play Directing (3) Prerequisite: CNA 318. Advanced study of directing theories and required directing of short plays for public performance. (3 hours lab)
- CNA 426/526 Worldwide Web Development (3). This course is designed to introduce students to software, design elements and practices related to creating and maintaining web sites on the Worldwide Web. Students will work with software to build web pages as well as to create and edit graphics and photos. Equally important is a focus on professional, legal and ethical issues that accompany publishing on the Web, and on the role of the web as a part of the mass media.
- CNA 430 Playwriting (3) Theory and practice of writing one-act and full length plays. Also cross-listed as ENG 430.
- CNA 431 Advanced Design (3) Prerequisites: CNA 331, 337, 387, or approval of instructor. Advanced problems in scenic, costume, lighting, or sound design. (4 hours lab)
- CNA 432/532 Play Production for Secondary Schools (3) The study of principles and methods of play selection for, and directing design and execution of theatre production in high schools.
- CNA 442/542 Communication and Rhetorical Theory (3) Prerequisites: CNA 201 or 210, 252. The study of various theories and models typically employed in communication studies today. Students explore the central assumptions, questions, and approaches in the study of human communication.
- CNA 447/547 Directing Communication Activities (3) A study and application of directing, coaching, and judging communication activities. The course will focus on the development of informative and persuasive speaking events, oral interpretation of literature and one-act play presentation.
- CNA 448/548 Organizational Communication II (3) Prerequisite: CNA 346. Explores the networks, roles, rules, systems, communication climates, and superior-subordinate communication. Group process facilitation, and organizational intervention skills are developed.
- CNA 450/550 Computer Layout & Presentation (3) Prerequisite: By advisement. A practical introduction to elements of design, layout and typography. Students will utilize these elements in computer lab to create publications such as brochures, newsletters, yearbooks, magazine and newspaper pages, and visual aids for professional presentations.
- CNA 451/551 Speech Pathology (3) Characteristics, causes, and treatment of speech and hearing disorders. Designed for teachers to aid in recognizing speech and language disorders in the classroom.
- CNA 452 Public Relations Case Studies (3) Prerequisite: CNA 374. The study of the role of communication theory in Public Relations as it applies in business, politics, and non-profit organizations through the case study method. The management role in Public Relations will be studied, as well as the ethical responsibility of PR professionals. This course presumes prior knowledge of Public Relations principles and presumes effectiveness in public speaking.
- CNA 453/553 Integrated Marketing Communication (3) Prerequisite: Junior standing or by approval. An exploration of strategic communication combining advertising, public relations, sales promotions, direct marketing, and other marketing communication functions to build relationships with constituents for business, organizations, and other groups. Includes case studies and hands-on projects.
- CNA 454/554 Advanced Web Development (3) Prerequisite: CNA 426. Advanced web applications, animation, and database/active-server pages. Includes focus on the function of the worldwide web in professional settings.
- CNA 455/555 Senior/Graduate Seminar in Communication Arts (3) Capstone course that involves the investigation of recent and ongoing research and theory in major field and their implications for continued research and field applications. Extensive training in listening, interviewing, and research skills. Completion of program portfolio required. Topics will vary from offering to offering. Cannot be repeated.

CNA 457 Special Topics in Communication (3) A detailed study of a particular aspect of communication, such as but not limited to political communication, gender and communication, communication and aging. Topic varies and the course can be repeated up to 3 times for credit covering a different topic.

CNA 458 Advanced News Writing and Reporting (3)  
Prerequisites: CNA 280, one course in Social Sciences. Course deals with major political, social, and economic developments that have local news interest. Complex, off-campus reporting on judicial system and court reporting, environmental, criminal justice, budgets, labor and employment, housing, poverty, etc. Will examine how bias and ideological framing arise from news routines.

CNA 459 Organizational Leadership (3) Prerequisite: CNA 346. An introduction to the study and practice of leadership from a communication perspective. Particular focus on the relationship between communicating and leading. Examination of leadership concepts and theories in organizational group and public contexts. Students will analyze leadership styles and develop leadership skills through team projects and classroom activities.

CNA 460 Leadership Theory (3) Prerequisites: CNA 346, 459. An in-depth analysis of leadership theory and influence from a communication perspective. Using a variety of frameworks and approaches, the focus is on communication patterns in leadership issues and theory.

CNA 461 Case Studies in Organizational Leadership (3)  
Prerequisites: CNA 346, 459. Historical and current case study and analysis of leadership from a communication perspective. Students will research and critically analyze specific cases dealing with leadership styles and attitudes with emphasis on leadership character, credibility, ethical and compliance gaining examples/strategies from private, public, and corporate organizations.

CNA 462 Communication Research Methods (3) Focuses on methodologies and designs used in Communication and Mass Communication studies. Students will evaluate the research of others as well as design their own studies. Although quantitative research methods and designs will be highlighted, students will also be expected to recognize the usefulness of qualitative methodologies. Junior standing.

CNA 463 Advanced Media Writing (3) Prerequisite: CNA 262. A writing-intensive class that focuses on such areas as editorial, feature, and sports writing, as well as writing for magazines. Students will write in-depth articles and submit them for publication in appropriate magazines and other publications.

CNA 470/570 Family Communication (3) An in-depth study of family communication concepts including family systems, roles, networks, power, intimacy, and decision-making. Special attention will be given to research affecting family communication in such areas as gender, culture, race, and age.

CNA 471/571 Mass Media and Society (3) Prerequisite: CNA 263. In-depth critical perspective of mass communication theoretical development and audience effects, including short and long term media socialization, political propaganda, advertising, social control, and characteristics shared by all media.

CNA 472 Radio Production II (3) Prerequisite: CNA 162. Study of advanced techniques in preparation, production, and presentation of program materials.

CNA 473 Video Production II (3) Prerequisites: CNA 162, 263, 373, 390. Study of advanced techniques for program and non-program content in standard, cable, and specialized television. Includes videotape editing. (Lab hours required)

CNA 475/575 Communication Law (3) An overview of the function of the judicial system with special emphasis on broadcast and print media, interpretation and administration of the law. Important for news, advertising, public relations, and management. Appropriate for pre-law.

CNA 477 Remote TV Production (3) Prerequisites: CNA 162, 263, 373 plus 473 as prerequisite or co-requisite with permission of instructor. The art of electronic field production, logging, videotape editing. Training in specialized videotaping of sports, on-the-spot interviews, hard news, and features. May be repeated to maximum of 6 hours.

CNA 478 Communication Ethics (3) Explores ethical issues in interpersonal, small group, organizational, public speaking, and political communication. It will provide models of ethical decision-making and will increase ethical awareness through actual and hypothetical case studies.

**Eligible seniors may enroll in 500 level graduate courses.**

#### **Graduate Courses**

CNA 520 Communication Arts Workshop (1-3) See CNA 220

CNA 526 Worldwide Web Development (3). See CNA 426

CNA 532 Play Production for Secondary Schools (3)  
See CNA 432

CNA 542 Communication and Rhetorical Theory (3)  
See CNA 442

CNA 547 Directing Communication Activities (3)  
See CNA 447

CNA 548 Organizational Communication II (3) See CNA 448

CNA 550 Comp Layout & Presentation (3) See CNA 450

CNA 551 Speech Pathology (3) See CNA 451

CNA 553 Integrated Marketing Communication (3)  
See CNA 453

CNA 554 Advanced Web Development (3) See CNA 454

CNA 555 Graduate Seminar in Comm Arts (3) See CNA 455

CNA 570 Family Communication (3) See CNA 470

CNA 571 Mass Media and Society (3) See CNA 471

CNA 575 Communication Law (3) See CNA 475

CNA 617 Topics in Argumentation and Persuasion (3) The focus of the course will alternate between argumentation and persuasion with special attention given to the intricacies in argument structure and logic and/or to the analysis of persuasive campaigns.

CNA 643 School and Community Theatre Management (3) Examination of challenges and problems in nonprofit

organizations. Emphasis on curriculum, budgeting, fund-raising and collaboration between high schools and community theatres.

CNA 675 Intercultural Communication (3) An advanced course in which students will develop an understanding of culture and communication, in both global and community settings, and the way members of diverse cultures and subcultures utilize unique systems, symbols and media to communicate among themselves and with other groups.

**Computer Information Systems (CIS)**

**Computer Technology & Information Systems Department  
School of Business & Technology  
Gardner Hall**

**Objectives:** The Computer Information Systems (CIS) program provides its students and graduates with: (1) a knowledge of foundational principles and concepts of computing; (2) an understanding of fundamental organizational and business concepts, (3) familiarity with essential theory and practical skills in the areas of computer programming, introductory networking, systems development, computer hardware, operating systems, and databases; (4) instruction in advanced undergraduate topics, theory, and skills in a focused concentration area; (5) the ability to work independently, as well as in groups across a range of diverse situations; (6) a working familiarity with sources of information and assistance in this field and related fields, as well as a knowledge of the systems for accessing such resources; (7) the ability to communicate effectively in a variety of forms for a variety of purposes; (8) an awareness of the types and range of career opportunities in the field, coupled with the ability to manage one’s own career; and (9) an understanding of the contexts and environments surrounding the development and uses of information systems.

See also Computer Science section of the catalog.

**Major in Computer Information Systems  
(BA or BS) 57 hours**

Computer Information Systems majors should meet with their advisors to determine the appropriate mathematics courses and science courses to satisfy their Block 2 Mathematics and Science General Education requirements.

**Computing Core Courses: 36 hours**

CIS	132 Prin of Computing & Info Sys.....	3
	140 Intro to Microcomputer Operating Sys.....	3
	171 Networking I.....	3
	360 Comp Info Sys: Analysis & Design.....	3
	366 Introduction to Data Base.....	3
	372 Computer Hardware .....	3
	480 Seminar in Comp Info Systems.....	3
CSC	150 Programming Fundamentals I .....	3

Plus Business Support Area:

BUS	142 Survey of Accounting.....	3
	208 Business Communications.....	3
	360 Management Theory and Practice .....	3
CIS	352 Structured Business Programming .....	3

Plus at least ONE of the following Concentrations:

**Applied E-Commerce Concentration: 21 hours**

CIS	375 Intro to E-Commerce.....	3
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	390 CIS Practicum.....	3
CSC	165 Intro to Web Design.....	3
BUS	370 Principles of Marketing .....	3
	418 Legal Environment of Business.....	3
ART	330 Graphic Design I.....	3
	Upper Division Committee-Approved Electives .....	3

**Networking Concentration: 21 hours**

CIS	271 Networking II .....	3
	361 CIS Design, Impl., Evaluation.....	3
	371 Networking III.....	3
	390 CIS Practicum.....	3
	471 Networking IV.....	3
CSC	160 Programming Fundamentals II.....	3
	Upper Division Committee-Approved Electives .....	3

**Programmer/Analyst Concentration: 21 hours**

CIS	346 Intro to MVS/JCL.....	3
	353 Adv. Structured Programming .....	3
	361 CIS Design, Impl., Evaluation.....	3
	466 Advanced Data Base.....	3
CSC	160 Programming Fundamentals II.....	3
	Upper Division Committee-Approved Electives .....	6

**Web Analyst Concentration: 21 hours**

CIS	361 CIS Design, Impl., Evaluation.....	3
	375 Intro to E-Commerce.....	3
CSC	160 Programming Fundamentals II.....	3
	165 Intro to Web Design.....	3
	365 Scripting Languages .....	3
	390 Computer Science Practicum .....	3
	Upper Division Committee-Approved Electives .....	3

**Minor in Computer Information Systems: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student’s major(s) and minor(s).

BUS	360 Management Theory and Practice .....	3
CIS	132 Prin of Computing & Info Sys.....	3
	(may substitute CIS 130 if required in student’s major)	
	140 Intro to Micro Operating Systems .....	3
	352 Structured Business Programming .....	3
	372 Computer Hardware .....	3

Plus 6 hours selected from the following courses:

CIS	271 Networking II (3)	
	346 Intro to MVS/JCL (3)	
	350 CICS Application Programming (3)	
	353 Advanced Structured Programming (3)	
	356 Visual BASIC (3)	
	375 Intro to E-Commerce (3)	
	430 Management Info Systems (3)	

**Minor in Management Information Systems.** See Business section of the catalog.

**Endorsement in Information Technology.** See Computer Science section of the catalog.

### Undergraduate Courses

CIS 130 Introduction to Computer/Information Technology (3) An introduction to computer technology (hardware and software) including computerized information systems designed to serve personal or business needs for problem solving, decision making, and data communication. Includes hands-on microcomputer applications.

CIS 132 Principles of Computing and Information Systems (3) An introduction and overview of modern computer systems, software design, information systems, and related technologies. Topics include computer hardware, software, communications, introductory algorithm design, basic networking concepts, computer ethics, and various other timely topics from the fields of computer science and/or computer information systems.

CIS 140 Introduction to Microcomputer Operating Systems (3) Students are introduced to the fundamental and advanced components of operating systems as they relate to microcomputer hardware. Students will gain hands-on knowledge and experience with operating systems that include command-driven, graphical, and menu-oriented environments.

CIS 171 Networking I (3) An introduction to networking concepts and technologies. Students will be introduced to the theory and practice of networking computers and various other devices.

CIS 231 Microcomputer Software (1-3) An introduction to the use of the microcomputer as a business tool. Included will be "hands-on" experience with word processor, database, desktop publishing, graphics and presentations, Windows operating system, Internet, Web Page design, and other applications software packages. May be repeated up to nine (9) hours.

CIS 232 Spreadsheet Software (1-3) An introduction to microcomputer spreadsheet software. Included will be "hands-on" experience with a popular microcomputer spreadsheet application package. Emphasis will be on commonly used concepts and features.

CIS 233 Advanced Spreadsheet Software (1-3) Prerequisite: CIS 232 or instructor approval. An exploration of advanced spreadsheet applications software concepts and features. The course will build on the introductory material provided in CIS 232 Spreadsheet Software and will provide coverage of more sophisticated concepts and require "hands-on" experience with features of the spreadsheet software that go beyond the basics.

CIS 271 Networking II (3) Prerequisite: CIS 171 or instructor approval. This course builds upon the material presented in CIS 171 and provides the students with additional networking theory. In addition, students will

work in a variety of "hands-on" settings to apply the theory to modern computer networks and networking equipment.

CIS 346 Introduction to MVS/JCL (3) A study of Job Control Language (JCL) in the MVS mainframe environment. Topics include: operating systems, MVS/JCL syntax, sequential data sets, utilities, partitioned data sets, generation data groups, system and user-written procedures, sort/merge concepts, advanced JCL features and TSO environment basics. Emphasis is placed on development of single and multi-step JCL jobs operating in the TSO, ISPF/PDF environment.

CIS 350 CICS Application Programming (3) Prerequisite: CIS 250. A study of Customer Information Control System (CICS) command level COBOL programming. Topics include: interactive systems, CICS concepts and terminology, BMS mapset creation, pseudo-conversational programming, basic CICS subset commands, CICS testing and debugging and expanded command-level CICS application. Emphasis is placed on development of CICS command-level COBOL application programs in the MVS environment that encompass topics/concepts presented in the course. The TSO ISPF/PDF environment will be used for mapset assembly and program compilation.

CIS 352 Structured Business Programming (3) Prerequisite: CIS 130 or 132. A study of structured computer programming. Topics include: a computer language overview, the program development cycle, the structured programming concept, program documentation, language structure and syntax, and common language commands. Emphasis is placed on development of sequential, batch programs that generate reports. Input to output data transfer, editing, simple and comprehensive arithmetic statement application, single and compound condition testing, sort/merge techniques, single dimensional and multi-dimensional table concepts are some of the processes emphasized in the programs.

CIS 353 Advanced Structured Programming (3) Prerequisite: CIS 352. A study of advanced topics in structured programming. Topics include: programmer controlled sort/merge concepts, advanced concepts in structured programming techniques, program documentation, multi-image records, master/transaction file concepts and advanced language syntax commands and topics. Emphasis is placed on development of programs that generate, access, and update sequential and random master files. Cohesion, coupling, structured walkthrough, key matching, test data development and editing are some of the concepts/processes emphasized in the programs.

CIS 356 Visual Basic (3) Prerequisite: CIS 130 or 132. Basic elements of interface design, object use and placement, and coding to operationalize the objects. The course is "hands-on" and project oriented. The student will have to design and submit several Visual Basic projects and a semester project, using structured, standard coding conforming to standard design practices.

CIS 360 Computer Information Systems: Analysis and Design (3) Prerequisite: CIS 130 or 132. A study of the structured

approach to systems development through use of structured analysis methods within an established life cycle. Topics include: the systems development environment and life cycle, information gathering techniques, feasibility studies, cost/benefit analysis, software development alternatives, software selection techniques, modeling tools, data analysis methodologies, communication considerations and new system design. Emphasis is placed on project team assignments that stress activities within the preliminary investigation and systems analysis phases of the systems development cycle.

- CIS 361 Computer Information Systems: Design, Implementation, and Evaluation (3) Prerequisite: CIS 360. A study of the structured approach to systems development through use of structured analysis methods within an established life cycle. Topics include: the systems development environment and life cycle, the systems design process, I/O design activities and strategies, file and database design, project management techniques, foundations and strategies of software design, software testing methods, CASE tools, user training, installation techniques, and evaluation process. Emphasis is placed on project team assignments that stress activities within the system design, implementation and evaluation phases of the system development cycle.
- CIS 366 Introduction to Data Base (3) Prerequisite: CIS 130 or 132. A study of database theory, design and management through application development and implementation. Topics include: database planning and organization, common database models, normalization, the total DBMS concept, logical and physical model design, program database strategies control and recovery, security and integrity, query application, and advanced database topics. Emphasis is placed on application assignments that encompass topics/concepts presented in the course.
- CIS 371 Networking III (3) Prerequisite: CIS 271 or instructor approval. This course builds upon the material presented in CIS 271 and provides the students with additional networking theory. In addition, students will work in a variety of "hands-on" settings to apply the theory to modern computer networks and networking equipment.
- CIS 372 Computer Hardware (3) Prerequisites: CIS 130 or 132 and CIS 140. A study of computer hardware nomenclature from micro to super-computer. The course will review hardware components of the principal computer systems used in industry, education and business. It will also emphasize the relationship of hardware to system management concerns such as connectivity, shared devices, end user interfaces, installation requirements, systems maintenance routines and upgrade procedures, etc.
- CIS 375 Introduction to E-Commerce (3) This course is an introduction to the world of electronic commerce and various other forms of electronic interaction. The course provides an overview of the basic technology of the Internet and World Wide Web. It also discusses strategic, tactical, and operational issues faced by online business firms and various other types of organizations. Marketing, financing,

infrastructure, choice of online business model, and many other considerations are explored.

- CIS 390 Computer Information Systems Practicum (3) Prerequisite: approval of instructor. The application of computing and information systems theory to real-world situations via individualized experiences tailored to student interests and backgrounds. Students will participate in supervised and mentored projects and assignments designed to teach them about the realities of translating theory into practice. Course may be repeated for three (3) additional credits of general electives only.
- CIS 430/530 Management Information Systems (3) Emphasis is on providing breadth of knowledge in the organizational concepts and considerations surrounding the use of information systems technologies such as computer systems and communications systems. Topics include role of information systems in managerial functions, general systems theory, design and implementation of Management Information Systems (MIS), decision support systems, expert systems, and artificial intelligence.
- CIS 454/554 Technology Platforms: Hardware and Operating Systems (3) This course provides students with a balance of theory and practice in the areas of selection, installation, management, maintenance, troubleshooting, design, and evaluation of operating systems and computer hardware. Proprietary and open-source systems are considered. Technical research and the use of various forms of documentation will be addressed. The role of ergonomics in hardware selection will be explored. Instructional strategies for teaching hardware and operating systems terminology and concepts will also be presented.
- CIS 457/557 Networking and Technology Management (3) This course provides students with a basic knowledge of computer networks, including network concepts and network operating systems. The areas of network selection, installation, management, maintenance, troubleshooting, design and evaluation are addressed. Instructional strategies for teaching networking and managing the networking instructional environment will also be presented. Special emphasis is placed on issues of security, scalability, and design for maintainability. This course also addressed general methods, skills, and strategies essential for planning and managing authentic and meaningful information technology learning experiences for students. Strategies for dealing with diverse populations, wide ranges of computer literacy levels, and a variety of learning styles are considered. The topics of assessment, evaluation, and appropriate feedback techniques are explored. In addition the course provides coverage of the general management skills, techniques, and strategies for planning, designing, implementing, evaluating, and managing the learning environment and the various technology components, technical resources, and tools that are a part of it. The basic practice of database design, development, and management is presented and its role in technology management is emphasized. Students will complete a significant technology planning or technology management

project in this course. That project will be supported by a database application.

CIS 466/566 Advanced Data Base (3) Prerequisite: CIS 366 or equivalent. An advanced study of data base planning, design, implementation, evaluation, and administration. Topics include: the ANSI/SPARC model for data base development, exploration of advanced considerations related to various types of data base structures, the use of data bases for strategic advantage in the organization, management of all phases of the data base life, query and human factors considerations. Student will apply theory to a data base project.

CIS 471/571 Networking IV (3) Prerequisite: CIS 371 or instructor approval. This course builds upon the material presented in CIS 371 and provides the students with additional networking theory. In addition, students will work in a variety of “hands-on” settings to apply the theory to modern computer networks and networking equipment.

CIS 475/575 Topics in Computer Information Systems (3) Prerequisites: Varies by topic. Study of topics such as simulation, expert systems, and other areas in the forefront of current CIS practices. Designated as a “hands on”, project-oriented course. The student will learn about the techniques, tools and practices of contemporary information systems domains. Topic and title will vary. May be repeated if topic and title are different.

CIS 477/577 Project Management (3) Prerequisite: BUS 352 or instructor approval. This course provides an introduction to the management of projects. Emphasis is placed on both the technical aspects of the project management process and the management of the human behavioral/situational aspects of projects. The nature of projects is explored. The techniques and tools of project management are introduced. Operational, tactical, and strategic implications of project management approaches are considered. The use of current project management software is incorporated. Students are also provided with an understanding of the many environmental and

behavioral issues surrounding project management, and approaches to dealing with these issues. Graduate students in this courses have additional requirements beyond those for the undergraduate students.

CIS 480/580 Seminar in Computer Information Systems (3) Prerequisite: Completion of 90 credit hours. A capstone course with emphasis on the management of information systems. Emphasis is placed on operational, tactical, and strategic issues related to information systems management. Consideration is given to traditional and emerging information systems issues and topics. Students will work with theoretical and practitioner literature from the information systems field in addressing several cases and/or projects and in preparing and delivering presentations.

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

CIS 530 Management Information Systems (3) See CIS 430

CIS 554 Technology Platforms: Hardware and Operating Systems (3) See CIS 454

CIS 557 Networking and Technology Management (3) See CIS 457

CIS 566 Advanced Data Base (3) See CIS 466

CIS 571 Networking IV (3) See CIS 471

CIS 575 Topics in Computer Information Systems (3) See CIS 475

CIS 577 Project Management (3) See CIS 477

CIS 580 Seminar in Comp Info Systems (3) See CIS 480

CIS 632 Information Systems Technology and Management (3) Prerequisite: CBK management or BUS 604. A course that addresses the operational, tactical, and strategic considerations associated with information systems within organization subunits, within an organization, and between organizations. Emphasis is placed on the relationship between organizations and their information systems. Cross-listed as BUS 632.

**Computer Science (CSC)  
Computer Technology & Information Systems Department  
School of Business & Technology  
Gardner Hall**

**Objectives:** The Computer Science (CSC) program objectives are to provide its students and graduates with: (1) the foundational principles and concepts of computer science and mathematics essential for further study in the field; (2) a working knowledge of computer hardware and architecture; (3) the ability to analyze, design, build/program, implement, and evaluate software and systems; (4) an understanding of fundamental scientific principles and the scientific method; (5) the ability to work independently, as well as in groups across a range of diverse situations; (6) a working familiarity with

sources of information and assistance in this field and related fields, as well as a knowledge of the systems for accessing such resources; (7) the ability to communicate effectively in a variety of forms for a variety of purposes; (8) additional instruction in the advanced undergraduate Computer Science topics and skills; (9) an awareness of the types and range of career opportunities in the field, coupled with the ability to manage one’s own career; and (10) an understanding of the contexts and environments in which Computer Science exists.

See also Computer Information Systems section of the catalog.

**Major in Computer Science (BA or BS) 57 hours**

PHY 326 Electronics must be taken as the Block 2 Physical Science General Education requirement and MAT 140 Calculus I must be taken as the Block 2 Mathematics General Education requirement.

**Computing Core Courses:**

CIS	132 Prin of Computing & Info Sys.....	3
	171 Networking I.....	3
	360 Comp Info Sys: Analysis & Design.....	3
	366 Introduction to Data Base.....	3
	372 Computer Hardware.....	3
CSC	150 Programming Fundamentals I.....	3
	480 Seminar in Computer Science.....	3

**Plus Computer Science Concentration Courses:**

CSC	160 Programming Fundamentals II.....	3
	310 Data Structures.....	3
	320 Computer Organization & Architecture.....	3
	345 Computer Graphics.....	3
	380 Operating Systems.....	3
	390 Computer Science Practicum <b>OR</b>	
	3/494 Cooperative Education Program.....	3
	432 Parallel Programming.....	3
	450 Server Security & Management.....	3
CIS	361 CIS Design, Impl, Evaluation.....	3
Upper Division Committee-Approved Electives.....3		

**Plus Mathematics Support Area:**

MAT	305 Discrete Mathematics.....	3
Plus 3 hours selected from:.....3		
MAT	180 Applied Probability and Statistics (3)	
	320 College Geometry (3)	
	350 Linear Algebra (3)	
	410 Probability and Statistics (3)	

**Minor in Computer Science 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

CSC	150 Programming Fundamentals I.....	3
	160 Programming Fundamentals II.....	3
	310 Data Structures.....	3
	320 Computer Organization & Architecture.....	3
CIS	132 Prin of Computing & Info Sys.....	3
Upper Division Committee-Approved Electives.....6		

**Minor in Management Information Systems.** See Business section of the catalog.

**Endorsement in Information Technology 15 hours**

Supplemental Endorsement only. This endorsement cannot exist by itself on a teaching certificate, but is added to a teaching certificate only in the presence of other endorsements which may have been acquired earlier or concurrently. Persons with this endorsement may teach information technology courses in grades K-12. This endorsement requires a minimum of 15 semester hours in Information Technology courses and a minimum of 40 hours of related clinical experiences at elementary and secondary levels.

CSC	442/542 Prgrmg, Design & Documentation.....	3
	448/548 Web & Multimedia Content, Design & Admin.....	3
CIS	454/554 Technology Platforms: Hrdwr & Oper Sys.....	3
	457/557 Networking & Technology Mgmt.....	3
	475/575 Topics in CIS: Emerging Info Tech.....	3

**Undergraduate Courses**

**CSC 150 Programming Fundamentals I (3)** An introduction to modern programming and problem solving methods using a high-level programming language. Emphasis on algorithm development, top-down design, and structured programming. Topics include data types, files, I/O operations, control structures, functions, arrays, strings, and records. Software documentation and testing will be included as an integral part of the course.

**CSC 160 Programming Fundamentals II (3)** Prerequisite: CSC 150. This course is an exploration of the object-oriented paradigm as a means of creating and maintaining computer applications. In addition to providing instruction in object-oriented programming concepts and methodologies, this course will provide students with syntax.

**CSC 165 Introduction to Web Design (3)** An introduction to the design and implementation of pages for the World Wide Web. Elementary HTML programming and the use of various web creation software tools will be introduced. This course will also deal with issues and considerations in design, layout, functionality, and other aspects of web creation.

**CSC 310 Data Structures (3)** Prerequisite: CSC 160. A study of common abstract data types (stacks, queues, lists, trees, etc.) and their implementation using a modern object-oriented programming language; techniques for operating on these data structures; and the distinction between specification and implementation. Topics include sorting and searching, analysis of algorithms, and algorithm design techniques.

**CSC 320 Computer Organization and Architecture (3)** Prerequisite: CSC 150. An introduction to the internal organization of a computer as a collection of related hardware components and software systems. Topics include representation and storage of digital information; organization and role of various components of a computer; underlying concepts of computer design; and an examination of various computer software systems (interpreters, compilers, assemblers, operating systems, etc.).

**CSC 345 Computer Graphics (3)** Prerequisite: CSC 160. The study of the fundamental mathematical, algorithmic and representational issues in computer graphics, with emphasis of 3-dimensional graphics. The topics to be covered are: overview of the graphics process, projective geometry, homogeneous coordinates, projective transformations, line-drawing, surface modelling and object modelling using spatial sampling and parametric functions, approaches to rendering including ray tracing and radiosity, texture synthesis and mapping.

**CSC 365 Scripting Languages (3)** Prerequisite: CSC 150 or instructor approval. This course is a study of modern scripting languages and their role in traditional and emerging information systems. Focus is in the ability of these server-side languages to extend the capabilities of HTML by providing greater control over content, style,

and functionality. In addition, special emphasis will be placed on the integration of these languages with a popular database engine and/or other information systems technologies.

**CSC 378 Robotics (3)** Prerequisite: CSC 150. An introduction to the fundamental concepts of robotics and robotic programming. Students will work in teams to construct and test progressively more complex mobile robots. There is a possibility of participation in one or more robotics competitions. Basic concepts will be discussed, including coordinate transformations, sensors, path planning, stressing the importance of integrating sensors, effectors and control.

**CSC 380 Operating Systems (3)** Prerequisites: CSC 160 and CIS 140. An overview of the structure and design of an operating system—the software interface between the user and the hardware. Topics include process management, memory management, device management, file management, concurrency, distributed systems, and security. Case studies will be emphasized.

**CSC 390 Computer Science Practicum (3)** Prerequisites: CSC 320 and CIS 372 and instructor approval. An individualized assignment arranged with a campus administrative unit, area business, or other organization to provide supervised experience in computer science, information technology, or a closely related field. Course may be repeated for three (3) additional credits of general electives only.

**CSC 432 Parallel Programming (3)** Prerequisite: CSC 310. Design and analysis of parallel algorithms: fundamental parallel algorithms for sorting, arithmetic, matrix and graph problems and additional selected topics. Emphasis on general techniques and approaches used for developing fast and efficient parallel algorithms and on limitations to their efficacy.

**CSC 442/542 Programming, Design, and Documentation (3)** An introduction to and an exploration of computer programming, program development approaches, systems analysis and design principles, algorithm development, debugging, programming tools, diagramming, documentation, program testing, program implementation approaches, human-computer interaction, and related topics. Concepts for procedural and object-oriented programs will be explored. Students will create program solutions coded in a common high-level language. Students will also gain familiarity with appli-

cations development tools and strategies for testing and debugging code. While exploring these topics, students will also be presented with instructional strategies for teaching such material and managing classroom activities related to the material. Each student will create a written reflection on these topics from the perspective of an educator.

**CSC 448/548 Web and Multimedia Content Design and Administration (3)** This course is a study of digital media, multimedia, and web-based media and applications. The various forms of digital media will be presented. Approaches to integrating multiple forms of digital media into multimedia presentations of projects will be addressed. Current multimedia tools will be introduced. The creation and management of web-based media and applications will also be explored. Markup languages and web creation tools will be addressed. Design strategies, content management strategies, security, aesthetics, and related topics will be considered. Students will also be presented with approaches to teaching the topics contained in this course and will be asked to create a written reflection, from an educator's perspective, on teaching these topics.

**CSC 450 Server Security and Management (3)** Prerequisite: CIS 372 or instructor approval. Server management is a comprehensive course that teaches students how to implement mission-critical services on various networking platforms. Students install and configure Web, e-mail, and proxy servers and receive in-depth understanding of how to connect e-commerce databases to Web servers. Additional topics may include system backup, load balancing issues, and Internet security.

**CSC 480 Seminar in Computer Science (3)** Prerequisite: Completion of 90 semester credit hours and CSC 310. A project-oriented course where students, with the assistance of the instructor, explore one or more areas of current importance in computer science. The students will design and develop a sophisticated software project that will be presented and discussed for critical evaluation.

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

**CSC 542 Programming, Design, and Documentation (3)**  
See CSC 442.

**CSC 548 Web and Multimedia Content Design and Administration (3)** See CSC 448.

## Cooperative Education Program

Cooperative Education is a program combining work experience with classroom learning. Employment occurs in positions that are relevant to a student's major and may be either a paid or non-paid experience. To help facilitate a mutually beneficial work experience for the employer and student, each Co-op experience is approved and monitored by the Career Services Office at WSC. College credit may be available for qualifying work experiences.

Cooperative Education is available as either a Parallel or

Alternate experience. In a Parallel experience, the student will be enrolled in classes at WSC and working towards filling their Co-op requirements. In an Alternate experience, the student will either work full-time during the summer or may opt to take a semester off and work full-time to fulfill their Co-op requirements (returning to campus in the semester following the alternate experience).

To be eligible for enrollment in Cooperative Education a student must:

- 1) Have completed 24 credit hours. The Technology and Applied Science department also requires that 18 hours

must be completed within the student's major, the Business and Economics department requires 21 hours within the student's major.

- 2) Have a minimum 2.0 GPA and maintain the minimum 2.0 GPA throughout their tenure with the Cooperative Education program. The Technology and Applied Science and Business and Economics departments require a 2.5 GPA within the student's major.
- 3) Be enrolled on at least a half-time basis (6 credit hours) a) during each semester while working a Cooperative Education experience or b) after an Alternate Co-op experience has been completed.

Special circumstances may warrant waiving a requirement.

Waivers will be determined by the Vice President for Academic Affairs and the Director of Career Services.

If a student meets the minimum requirements for the Co-op program, the Career Services staff will provide assistance in finding an appropriate employment experience. If the student is successful, the guidelines for receiving credit follow:

- A student may apply for 1-12 credit hours or have the Co-op experience noted on their transcript. The approval

of and the amount of credit given for each experience are determined by the advisor/instructor and department chair.

- Credit hours will be billed through the Business Office. There is no charge for the transcript notation option.
- Credit can either be straight elective credit, or may be substituted for an elective, within the major. Each department will make this determination.
- The level of credit will be determined by the department and listed as either a 294, 394, or 494 course number.
- A grade of Satisfactory (S) will be awarded to the student successfully completing their Co-op Experience. No Credit (NC) will be given if the student fails to fulfill the requirements of the program.
- A minimum of 50 clock hours per credit hour must be worked during each co-op work experience. A total of 50 clock hours are required for the transcription notation option. Students may work more hours than required, however, no extra credit will be given.

Inquiries and application for the Cooperative Education program may be made through the Career Services Office located in the Student Center.

### Counseling (CSL)

#### Counseling & Special Education Department School of Education & Counseling Brandenburg Education Building

**Objectives:** Human Service Counseling is a baccalaureate degree program designed to prepare students to work in the helping professions. The program is built on a strong foundation of psychology and sociology to develop understanding of individuals and the influence of social interaction. Counseling theory and skills enable students to work with people toward functional ways of meeting their needs.

The program is based on the philosophy of empowerment of clients. Program outcomes include the preparation of counselors who (a) have the skills to attend, listen, reflect, clarify, probe, plan and evaluate, (b) have the ability to understand problems from clients' perspectives, establish mutually acceptable goals, and choose appropriate strategies, and (c) show self-awareness, empathy, and respect for clients.

#### **Admission and Retention in the Human Service Counseling Program:**

Admission to WSC does not constitute admission to the Human Service Counseling program. Students will be accepted into the program following completion of requirements for program admission (ordinarily during the Junior Year):

1. File a formal application, completed in CSL 202 Introduction to Human Service Counseling. The application must include the names of two people who would be knowledgeable of personal qualities conducive to success within the counseling profession. Students who transfer credit which includes this course will need to make application during the semester of transfer.
2. Earn at least a "C" grade in CNA 100 Principles of Human Communication and continue to demonstrate the ability to communicate orally in an effective way.

3. Earn at least a "C" grade in ENG 102 Composition Skills and continue to demonstrate the ability to communicate effectively in writing.
4. Earn at least a "C" in CSL 202 Introduction to Human Service Counseling and continue to demonstrate an empathic understanding of people and knowledge of ethical, professional intervention.
5. Earn at least a "C" in CSL 324 Fundamentals of Counseling and continue to demonstrate understanding of counseling theory in assisting people.
6. Achieve and maintain at least a 2.5 GPA in the major.
7. Take the writing section of the Pre-Professional Skills Test prior to completing 60 hours. Those students scoring below 172 (computer form, 318) will be required to prepare and present a plan for remediation to the HSC faculty. Upon approval of the Counseling & Special Education Department, students will need to successfully complete the plan and provide documentation.
8. Demonstrate mental health and personal adjustment commonly expected within the counseling profession and model ethical standards.
9. Receive a favorable recommendation by the Human Service Counseling faculty based on their professional judgment of the student's ability to be of help to others.

The Professional Progress Committee will review completed applications and make recommendation to the Dean of Education and Counseling. Students granted admission will be notified by letter. Students denied admission will also be notified by letter. An appeal may be made to the Dean of Education and Counseling.

Retention in the Human Service Counseling Program is contingent upon maintaining the above requirements. A student may request a review or hearing before the Human Service Counseling faculty at any time.

#### **Admission to the Professional Seminar**

The professional seminar is designed to prepare the student for placement in the Human Service Counseling Internship. To

be admitted to the seminar, a student must meet the following requirements:

1. Officially admitted into the Human Service Counseling Program.
2. Earn a minimum of 90 hours of credit including 36 hours in the major.
3. Receive at least a “B-” in CSL 342 Interviewing Skills and continue to demonstrate the ability to relate empathically and therapeutically.

**Admission to the Human Service Counseling Internship**

The internship in human service counseling is designed to integrate the knowledge of theory and techniques with counseling practice. To be admitted to the internship, a student must meet the following requirements:

1. Retention in the Human Service Counseling Program.
2. Complete CSL 490 with a grade of at least a “C”.
3. Submission of a completed Internship Agreement at least one month prior to the start of the internship.
4. Approval of the instructor.

**Requirements for Graduation**

1. Retention in the Human Service Counseling Program
2. Completion of all program requirements.
3. Earned “B-” or higher in CSL 497 Human Service Counseling Internship.

**Major in Human Service Counseling (BA or BS) 55 hours**

CSL	202 Intro Human Service Counseling .....	3
	218 Personal Growth Counseling .....	3
	324 Fundamentals of Counseling .....	3
	342 Interviewing Skills.....	3
	403 Group Strategies in Counseling .....	3
	409 Human Sexuality Counseling .....	3
	440 Chemical Dependency Counseling.....	3
	490 Human Services Counseling Seminar .....	3
	497 Human Service Counseling Internship .....	10
PSY	101 General Psychology .....	3
	316 Social Psychology .....	3
	450 Abnormal Psychology .....	3
SOC	101 Introduction to Sociology .....	3
	220 Social Problems .....	3
	320 Social Welfare.....	3
	415 The Family.....	3

**Undergraduate Courses**

CSL 202 Introduction to Human Service Counseling (3) This course summarizes the personality characteristics, skills, and knowledge that lead to effective human service counseling. Students implement these as volunteers in human service agencies in the community and discuss their experiences in small reflection groups. Students examine practical techniques that are helpful with individuals with mental illnesses, such as depression and schizophrenia.

CSL 218 Personal Growth Counseling (3) An introduction to the study of personal growth counseling with an emphasis upon facilitating self awareness, personal growth, and adjustment. The role of counseling in promoting an understanding of oneself and others will be addressed along with such counseling issues as friendship, stress, motivation,

work, decision making, emotions, intimate relationships, sexuality, and others.

CSL 324 Fundamentals of Counseling (3) Introduction to basic counseling theories and their associated assumptions, goals, and strategies to assist client change from a multicultural perspective. (Grade of C or above is required for majors only.)

CSL 342 Interviewing Skills (3) Prerequisite: Admission to HSC program. This course provides the basic concepts for structuring the interview. Select approaches to counseling and case report writing will be considered. Helping skills of attending, responding, and initiating action within interview situations will be emphasized. (Grade of B- is required for majors only.)

CSL 403 Group Strategies in Counseling (3) Prerequisites: Admission to HSC program. The purpose of this course is to facilitate self-awareness and relationship skills in counseling trainees for implementation within group counseling settings. Communication, problem-solving, and leadership skills for group counseling will also be stressed.

CSL 409/509 Human Sexuality Counseling (3) This course is a study of Human Sexuality Counseling from a Bio-Psycho-Social theory of human development. Emphasis is on an individualized perspective; dynamics of psychological, sociological, and physiological predisposition; and a multidimensional approach to intervention. Assessment of individual needs, intervention problem design and implementation, and documentation of progress is also addressed. Etiology, diagnosis, treatment planning and therapeutic interventions are based on contemporary diagnostic descriptions. Diverse intervention strategies will be identified to meet the needs of a multicultural society. Specific protocols will be illustrated for diagnosis, treatment planning, and therapeutic intervention. Counselees will be presented with specific case studies and videotapes of actual counseling sessions. Ethical issues associated with human sexuality counseling will be considered in detail.

CSL 440/540 Chemical Dependency Counseling (3) This course is a study of chemical dependency counseling from a Bio-Psycho-Social theory of human development. Emphasis is on an individualized perspective; dynamics of psychological, sociological, and physiological predisposition; and a multidimensional approach to intervention. Assessment of individual needs, intervention program design and implementation, and documentation of progress is also addressed. Classification of chemicals and their effects on the human body; tolerance, rebound, and withdrawal; and various treatment modalities and settings will be explored. Etiology, diagnosis, treatment planning and therapeutic interventions are based on contemporary diagnostic descriptions. Diverse intervention strategies will be identified to meet the needs of a multicultural society. Specific protocols will be illustrated for diagnosis, treatment

planning and therapeutic intervention. Counselors will be presented with specific case studies and videotapes of actual counseling sessions. Ethical issues associated with chemical dependency counseling will be considered in detail.

CSL 445/545 Clinical Issues in Chemical Dependency (2) This course focuses on counseling approaches for chemically dependent persons with special issues including dual diagnoses, relationship(s) with chemically dependent family members, problems associated with a specific drug of choice and problems common to the populations of women, adolescents, and the elderly. Specific counseling approaches will be suggested for each. Suggestions for helping family members of persons with these issues will also be explored.

CSL 447/547 Multicultural Counseling (3) This course explores the special issues involved in working with clients and students who are impacted by cultural influences of minority groups in America. Special counseling techniques and adaptations of traditional counseling approaches when working with diverse cultural groups will be studied.

CSL 449/549 Alcohol/Drug Assessment, Case Planning and Management (2) This course describes processes involved in collecting self-report and assessment data as a basis for making decisions regarding the diagnosis and selection of appropriate level of care of persons with alcohol and drug disorders.

CSL 490 Human Service Counseling Seminar (3) Prerequisites: 90 hours, 36 hours in major: including CSL 202, 218, 324, 342, 403. This course focuses on refinement of counseling competencies for general and special populations. Attention is given to counseling from initiation to termination. Current issues are addressed in seminar format with each advanced level student conducting and sharing research. Additional activities include (a) internship seeking and placement and (b) political advocacy.

CSL 497 Human Service Counseling Internship (10)  
Prerequisites: CSL 490, 36 hours in major: including CSL 202, 218, 324, 342, 403. The internship in human service counseling is designed to integrate the knowledge of theory and techniques with counseling practice.

**Eligible seniors may enroll in 500 level graduate courses.  
Graduate Courses**

CSL 509 Human Sexuality Counseling (3) See CSL 409

CSL 540 Chemical Dependency Counseling (3) See CSL 440

CSL 545 Clinical Issues in Chemical Dependency (2)  
See CSL 445

CSL 547 Multicultural Counseling (3) See CSL 447

CSL 549 Alcohol/Drug Assessment, Case Planning and Management (2) See CSL 449

CSL 580 Professional Counselors and Ethical Standards of Practice (3) This course is designed to encourage reflection on general ethical principles, recognition of ethical issues raised in practice, and use of an ethical decision-making model. Case studies are used for discussion of ethical issues in developing competent, culturally-sensitive professionals. Professional identity is addressed through awareness of our history, professional roles, professional associations (ACA), credentialing, and advocacy.

CSL 600 Theories of Counseling (3) This course is designed to introduce the major theories of counseling with an initial exposure to the counseling relationship and corresponding theoretical techniques. Psychodynamic, humanistic, and cognitive-behavioral theories are emphasized with brief discussion of systems theories, brief therapy, and feminist therapy models. Each student begins to integrate quintessential elements from these theories with their experiences and beliefs toward a personal model that will provide a way to conceptualize client needs and choose appropriate interventions. Professional orientation and the ACA Code of Ethics are introduced, particularly in reference to training standards. (Prerequisite for CSL 641, 642, 645, 665, 685, 686, 697; Minimum grade of B- is required.)

CSL 615 Career Development and Life Planning (3) This course is designed to prepare graduate level counselor trainees to facilitate career and life planning decisions within an applied professional setting. Typical theoretical perspectives associated with career development and life-planning counseling will be highlighted. An analysis of the psychological, sociological, and physiological aspects of human behavior, which typically impact upon career decisions, will be emphasized. Career development program planning, organization, implementation, administration, and evaluation will be addressed. Assessment instruments and techniques associated with career planning and decision-making will be explored. Technology-based career development applications and strategies, including computer-assisted career guidance information will be utilized. This class will include such topics as foundations and resources, career-counseling programs for special populations, and techniques for career-counseling interviewing. Career development program planning, organization, implementation, administration, and evaluation will be addressed. Ethical issues associated with career counseling will be considered in detail.

CSL 625 Individual and Group Assessment (3) This course is designed to prepare graduate level counselor trainees to apply relevant principles of assessment and evaluation within an applied professional setting. Typical topics for discussion will include theoretical and historical bases for assessment techniques; reliability and validity dimensions in testing; appraisal methods associated with standardized tests; psychometric statistics upon which assessment is based; strategies for selecting, administering, interpreting, and using assessment instruments; and typical human qualities involved in the assessment process. The assumptions, implications, and effects of assessment on

minorities and on public policy will also be addressed. Diverse intervention strategies will be identified to meet the needs of a multicultural society within an ever changing social milieu. Ethical issues associated with appraisal counseling will be considered in detail.

**CSL 630 Developmental Counseling over the Lifespan (3)** This is a course about basic human growth and development. It is designed to prepare graduate level counselor trainees to apply relevant principles of human transformation over the lifespan to Developmental Counseling Theoretical Perspectives within an applied professional setting. A presentation of personality dynamics and behavioral manifestations at critical stages of development over the lifespan will be provided based on a Bio-Psycho-Social perspective. This class will include such topics as 1) stage wise progression; 2) psychosocial crisis; 3) chemical addiction and dependency; 4) environmental factors impacting on both adaptive and maladaptive adjustment; and 5) strategies for facilitating positive development over the lifespan. Such factors as age, race, religious preference, physical disability, vulnerability to addiction and dependency; sexual orientation, ethnicity and culture, family patterns, gender, socioeconomic status, and intellectual ability will also be addressed in relationship to attitude formation and behavioral response. Diverse intervention strategies associated with developmental counseling will be considered in detail.

**CSL 641 Counseling Children (1)** Prerequisite: CSL 600. This course is designed to adapt counseling skills to the developmental needs and special problems of children within a cultural context. Appropriate techniques include play therapy, expressive arts, and bibliotherapy. Ethical considerations in counseling children are addressed.

**CSL 642 Consultation (2)** Prerequisite: CSL 600, 685. This course is designed to introduce models of consultation through which counselors collaborate with colleagues, teachers, or parents in problem solving directed toward the needs of a third person. Through practice, students engage in skills facilitating development through the stages of consultation and reflection on their performance.

**CSL 643 Elementary School Counseling (1)** This course is designed to address the role of the elementary school counselor and services provided through the school: counseling, consulting, and coordination. Emphasis is on organizing and managing developmental guidance activities, career education, coordination of student services, referral services, and collaboration with other professionals in the community.

**CSL 644 Secondary School Counseling (1)** This course focuses on the role of the secondary school counselor and services provided through the school. Emphasis in this practical course is in resources, procedures, and materials available for the career, academic, personal, and social development of secondary school students.

**CSL 645 Marriage and Family Counseling (3)** Prerequisite: CSL 600. This course is designed to introduce systems theories to include an understanding of (a) family development, issues and concepts, (b) interventions associated with major family therapy models, and (c) social constructivist models, e.g. Solution-Focused Brief Therapy and Narrative Therapy.

**CSL 646 Student Affairs in Higher Education Counseling (2)** This course surveys the history, purpose, function, legal and ethical issues of student affairs in higher education counseling. Characteristics and developmental issues of college students are described. Needs of students from diverse cultural groups are identified. Models of programs to meet these needs are examined. The essential skills and competencies of student affairs managers are described.

**CSL 665 Group Counseling (3)** Prerequisites: CSL 600, 685, and admission to the program. This course is designed to provide theoretical and experiential understanding of group counseling with emphasis on types of groups, planning, orientation, stages of group development, group member roles and behaviors, effective leadership skills, theoretical implications for methodology and leadership style, and ethical issues related to a group environment. This course includes supervised practice.

**CSL 670 Organization/Administration of Counseling Services (3)** This class is an introduction to the historical development of counseling services and significant societal changes impacting on the evolution of the helping profession. The class is designed to prepare graduate level counselor trainees to develop, deliver, and maintain outcome/performance-based counseling service programs that facilitate the academic, personal/social and career development of individuals. An emphasis is placed on the integration of counseling services within either a school or agency setting.

**CSL 675 Differential Diagnosis and Treatment Planning in Counseling (3)** This course is a study of the most common personality disorders manifested within American society, schools, and community counseling settings. It is designed to facilitate collaboration among school and community counselors and other primary care providers. The primary focus is on contemporary diagnostic descriptions; advances in differential diagnostic procedures; current theoretical perspectives; and prevalent treatment planning strategies that guide the intervention process. Assessment of individual needs, intervention program design and implementation, and documentation of progress is also addressed. Etiology, diagnosis, treatment planning and therapeutic interventions are based on contemporary diagnostic descriptions. Diverse intervention strategies will be identified to meet the needs of a multicultural society. Specific protocols will be illustrated for diagnosis, treatment planning, and therapeutic intervention. Psychological disorders will be presented in specific case studies, counseling transcripts, films, and videotapes of actual counseling sessions. Ethical

issues associated with counseling those with psychological disorders will be considered in detail.

CSL 685 Practicum in Counseling (3) Introduction, practice, and mastery of basic skills for structuring a counseling interview. (Minimum grade of “B-” and the ability to relate empathetically and therapeutically is required.)

CSL 686 Advanced Practicum (3) Prerequisites: CSL 600, 685, and admission to program. Provides for the development of individual and group counseling skills beyond the initial practicum with direct service to clients. This course is designed to model, demonstrate, and train for clinical application. (A minimum grade of “B-” and the ability to relate empathetically, therapeutically, and ethically is required.)

CSL 688 Crisis Intervention Counseling (2) This course will identify the immediate and long-term impact of crises, disasters, and trauma on individuals and organizations. The principles of risk assessment and management, crisis intervention, and the role of the counselor in emergency management teams will be described. Guidelines for professional, school, and community responses to suicidal

threats and completions, violence, bereavement, substance abuse crises, and other trauma will be emphasized. Self-care strategies for counselors working with trauma and crises will also be explored.

CSL 697 Internship in Counseling (3-12) Prerequisites: CSL 665, 686, instructor approval. Specializations require the completion of CSL 643, 644, 646, or 686. The internship involves required field experience in a setting appropriate to the student’s program. The student should have the required coursework to function effectively at the internship site and have demonstrated the ability to be helpful to students or clients (acceptable videotape practicum). Emphasis will be placed on (a) direct services to students and/or clients and (b) indirect services to include the use of best practices in planning, reflection on their work, accountability, and supervision. Direct service will include individual and group counseling for all interns and additional area-specified activities in relation to certification and endorsement requirements. Interns are required to provide video or digital reproduction of direct service for use in supervision and demonstration of competencies. (Minimum grade of “B-” and modeling ethical and personal behavior articulated in the ACA Code of Ethics and Standards of Practice is required.)

### Criminal Justice (CJA)

#### Sociology, Psychology & Criminal Justice Department School of Natural & Social Sciences Connell Hall

**Objectives:** The Criminal Justice program is designed to provide students with the necessary practical knowledge and skills for careers in the Criminal Justice field and knowledge of the theoretical basis for understanding the economic, political, and social environments in which the criminal justice process operates. The CJ comprehensive major consists of a total of 57 hours, with available concentrations in Law Enforcement and Corrections. For students in majors other than Criminal Justice, a minor in Criminal Justice is available. The Criminal Justice program is offered in cooperation between WSC and Northeast Community College in Norfolk, Nebraska, about 30 miles away. Certain courses are offered by Northeast faculty on the WSC campus.

Completion of the Criminal Justice degree program, or portions thereof, is not a guarantee of employment in the career field. Agencies may require background investigations, medical/psychological/physical fitness evaluations, interviews, and additional training.

#### Major in Criminal Justice (BA or BS) 57 hours

Spanish is required in Block 3 Philosophy & Modern Languages General Education requirements for all Criminal Justice majors. In addition CJ majors should plan to take PSY 101 or SOC 101 to apply toward their Block 3 Social Sciences General Education requirement.

The major requires the Core and at least one of the Concentrations.

#### Criminal Justice Core: 39 hours

CJA	105 Introduction to Criminal Justice .....	3
	200 Criminal Law .....	3
	203 Police and Society .....	3
	235 Security and Loss Prevention .....	3
	325 Community Based Corrections.....	3
	365 Juvenile Delinquency .....	3
	375 Criminal Justice Management .....	3
	425 Substance Abuse Management.....	3
	444 Topics in Criminal Justice .....	3
	488 Criminal Justice Senior Seminar .....	3
SOC	200 Deviance <b>or</b>	
	220 Social Problems .....	3
SSC	300 Social Sciences Research Methods .....	3
	319 Statistics for Social Sciences .....	3

#### Criminal Justice Concentrations (choose one)

##### Corrections Concentration: 18 hours + 39 hour core

CJA	320 Correctional Institutions .....	3
	475 Issues and Ethics in Criminal Justice .....	3
SOC	320 Social Welfare.....	3
	345 Multicultural America <b>or</b>	
	460 Social Stratification .....	3
	Program Electives .....	6

##### Law Enforcement Concentration: 18 hours + 39 hour core

CJA	127 Introduction to Criminalistics.....	3
	226 Criminal Investigation .....	3
	405 Family Violence.....	3
	475 Issues and Ethics in Criminal Justice .....	3
	Program Electives .....	6

##### Criminal Justice Minor: 21 hours

(Not permitted for Criminal Justice Majors)

A minor must include a minimum of 12 hours unduplicated by the student’s major(s) and minor(s).

- CJA 105 Introduction to Criminal Justice .....3
- 365 Juvenile Delinquency .....3

Plus 3 hours from each of two areas:

Law Enforcement area:

- CJA 203 Police & Society **or**
- 226 Criminal Investigation .....3

Corrections area:

- CJA 320 Correctional Institutions **or**
- 325 Community Based Corrections.....3

Program Electives (Upper Division by advisement) .....9

**Program Electives for Corrections, and Law Enforcement concentrations or for the minor in Criminal Justice.**

Choose hours from the following list, or take additional classes prefixed CJA, but note that at most 3 hours of classes prefixed CJA may count toward the program electives.

Program electives in the minor must be upper level courses.

**Business**

- BUS 208 Business Communications (3)
- 222 Business Law (3)
- 322 Managerial Finance (3)
- 367 Foundations of Human Resource Mgmt\* (3)
- 401 Office Management (3)
- 418 Legal Environment of Business\* (3)
- 466 Labor Law Management (3)

**Criminal Justice**

- CJA 394 Cooperative Education Experience (3)
- 395 Independent Study (honors) (3)
- 444 Topics in Criminal Justice (cannot count any Topics credit also used in the CJA major) (3)
- 497 Internship (1-6 hours, but only 3 hours will count as Program Electives)
- 499 Senior Honors Colloquium (honors) (3)

**Communication**

- CNA 201 Small Group Communication (3)
- 210 Interpersonal Communication (3)
- 262 Writing for Mass Media (3)
- 346 Organizational Communication I (3)
- 374 Public Relations (3)
- 470 Family Communication (3)

**Counseling**

- CSL 324 Fundamentals of Counseling (3)
- 342 Interviewing Skills\* (3)
- 440 Chemical Dependency Counseling (3)

**Economics**

- ECO 320 Labor Economics\* (3)

**Geography**

- GEO 300 Human Geography (3)
- 320 Urban Geography (3)
- 430 Geographic Information Systems (3)
- 435 Computer Mapping (3)

**History**

- HIS 465 American Civil Rights Movement (3)

**Political Science**

- POS 300 State and Local Politics (3)
- 355 The Supreme Court (3)
- 380 Public Policy (3)
- 420 American Constitutional Law (3)

**Psychology**

Any PSY course, 200 level or above.

**Sociology**

Any SOC course, 200 level or above.

**Social Sciences**

- SSC 419 Advanced Social Science Research Methods (3)
  - 444 Topics in Social Sciences (3)
- (per advisement according to the topic)

\*denotes prerequisites exist in these courses. See your advisor.

Note: If a student takes both Sociology of Deviance (SOC 200) and Social Problems (SOC 220) one will count as an elective within the major. SSC courses may count as program electives, by advisement. Also, any other CJA course from NECC will transfer in as program electives in Criminal Justice.

**Emergency Management Minor: 21 hours**

This minor is intended to prepare students, particularly those majoring in Criminal Justice, to participate in developing, planning, implementing, and evaluating emergency management policies and activities at local, regional, and national levels. Students are required to participate in an internship. A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

- CJA 360 Homeland Security and Terrorism.....3
- 460 Emergency Management .....3
- 497 Emergency Management Internship .....3
- GEO 410 Hazards and Disasters.....3
- 430 Geographic Info Systems **or**
- 435 Computer Mapping.....3

Plus choose any two of the following:

- BUS 214 Information Management (3)
- POS 390 Public Budgeting and Finance (3)
- 444 Topics: Grant Writing Seminar (3)
- PSY 406 Death and Dying (3)
- 410 Psychology of Small Group Behavior (3)

**Undergraduate Courses**

CJA 105 Introduction to Criminal Justice (3) This is a survey course designed to acquaint the student with the total field of criminal justice emphasizing the institutions and processes of law enforcement and corrections.

CJA 200 Criminal Law (3) The study of the categories of criminal code, the elements of evidence and proof from the legal standpoint, and how these relate to constitutional rights of the accused.

CJA 320 Correctional Institutions (3) The course focuses on the historical development of prisons, and a discussion of the current structure, philosophy, character and issues of modern correctional institutions.

CJA 325 Community-Based Corrections (3) The study of the correctional processes at the community level including the parole and probationary concepts. Emphasis is on applied techniques.

CJA 360 Homeland Security and Terrorism (3) This course examines the nature and extent of the threat from internal and external political groups as well as how the federal law enforcement community was restructured in a post 9-11 period.

Agency structure, funding, training jurisdiction, issues, and contemporary court cases are topics.

**CJA 365 Juvenile Delinquency (3)** The study of the nature and extent of juvenile delinquency in the U.S., theories of cause, and the special police processing and court systems which deal with delinquency, with focus on the role of schools, drugs, gangs, racial groups, and females as special topics in delinquency.

**CJA 375 Criminal Justice Management (3)** Management of criminal justice agencies is the course focus. Topics include management structure and style, promotion, retention, training, documentation, ADA, EEO, unions, budget administration, grants, other funding, data security, planning and evaluation, impact of technology on administration, and administration law.

**CJA 405/505 Family Violence (3)** The course examines child abuse, dating violence, domestic violence, sexual assault and elder abuse. Particular topics include theories of abuse, societal responses to abuse, and assistance to victims.

**CJA 425/525 Substance Abuse Management (3)** The study of substance abuse in the work place from a managerial perspective: union issues, management concerns, legality of intervention, referrals for treatment, drug testing, training supervisors, and other topics. The course also examines the war on drugs, drug sources and distribution systems, and the impact of drug abuse on individuals and society.

**CJA 444/544 Topics in Criminal Justice (3)** Current or special issues in Criminal Justice will be examined. The course offers students the opportunity to discuss relevant issues facing society. The course may be repeated for credit, by advisement, when no duplication of topics exists.

**CJA 460 Emergency Management (3)** Current topics of concern regarding strategies of disaster assessment, mitigation, response, recovery and preparedness will be discussed. This course will focus on types of natural and man-made disasters, federal, state, and local reactions to disasters, disaster communications, and the management of responses to terrorist attacks.

**CJA 475 Issues and Ethics in Criminal Justice (3)** This course will review classical and modern theories of ethics and their application to criminal justice practice. Topics include: theories of ethics, racism and prejudice, abuse of authority, and corruption.

**CJA 488 Criminal Justice Senior Seminar (3)** Prerequisite: Senior Standing. This course is a capstone course wherein students research the career field and job market, conduct original research, focus on issues in the profession and dialog on personal values and skills for the career field.

**CJA 497 Internship (1-6)** Prerequisites: Instructor permission, junior level or above. Placement in a professional capacity in an agency for a supervised period of at least 250 hours. Weekly meetings, a journal, and a paper are required.

### **Courses Offered by Northeast Community College on the WSC Campus**

**CJA 127 Introduction to Criminalistics (3)** Introduction to scientific investigation and the use of the crime laboratory. Includes proper methods of collecting, handling, packaging, and mailing of evidence to be analyzed by the crime laboratory. Also covers such scientific techniques as neuroactivation and analysis, toxicology, and questioned document analysis.

**CJA 203 Police and Society (3)** Examines the role of the police in relationship to law enforcement and American Society. Topics include, but are not limited to the role and function of police, the nature of police organizations and police work, and the patterns of police-community relations.

**CJA 226 Criminal Investigation (3)** Introduces criminal investigation procedures. Reviews the historical development and investigative processes related to law enforcement functions. Topics include, but are not limited to the proper collection, organization and preservation of evidence using basic investigative tools; examining the primary sources of information; analyzing the importance of writing skills; and reviewing the constitutional (legal) limitations of the investigation.

**CJA 235 Security and Loss Prevention (3)** Provides insight into the complex problems of loss prevention in today's society, including security staffing needs, fire protection and control, duties and responsibilities of security personnel, internal controls, emergency and disaster planning, and internal theft.

### **Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

**CJA 505 Family Violence (3)** See CJA 405

**CJA 525 Substance Abuse Management (3)** See CJA 425

**CJA 544 Topics in Criminal Justice (3)** See CJA 444

### **Earth Science (EAS)**

#### **Physical Sciences & Mathematics Department**

#### **School of Natural & Social Sciences**

#### **Carhart Science Building**

**Objectives:** Courses in Earth Science are designed to acquaint the student with the planet Earth, its physical make-up and place in the universe. The offerings in Earth Science may

be selected by students desiring to major in Geography and those working toward a Natural Science or Physical Science field endorsement to teach. Students majoring in other areas may select Earth Science as a minor field of study. Such a minor is especially beneficial to those students specializing in Biology, Chemistry, Mathematics or Physics.

**Minor in Earth Science: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

EAS 110 Introduction to Meteorology.....	4
120 Introduction to Geology .....	4
320 Rocks and Minerals .....	2
401 Astronomy .....	4
Upper Level Earth Science Electives.....	7

Upper level elective hours may be selected by advisement from Earth Science, Geography, Biology, Chemistry or Physics.

**Undergraduate Courses**

EAS 110 Introduction to Meteorology (4) An introduction to the Earth as planet with special emphasis being placed upon atmospheric and oceanic processes. (3 hours lecture, 3 hours lab)

EAS 120 Introduction to Geology (4) A study of the solid earth in terms of its internal structure and surface landforms. (3 hours lecture, 3 hours lab)

EAS 250 Discover Astronomy (3) A course that examines current or special topics in Astronomy. Emphasis will be placed upon discussions and interactive investigations about astronomical subjects. (4 hours lecture/lab combined) The course may be repeated twice when no duplication of topics exists.

EAS 310 Weather Systems of North America (4) An advanced course in weather analysis, with special emphasis on the various climatic regions. (3 hours lecture, 3 hours lab)

EAS 320 Rocks and Minerals (2) A study of the formation, occurrence and classification of rocks in the earth's crust, with emphasis on the relationship of minerals to the composition and types of crustal materials. (1½ hours lecture, 1½ hours lab)

EAS 393 Laboratory Techniques (1) Prerequisite: Junior standing. Assisting in the preparation and evaluation of laboratory activities (one lab per week).

EAS 401/501 Astronomy (4) An analytic study of the solar system, our galaxy, and the universe, including a survey of cosmological theory. Graduate students will do a project and write a paper. (3 hours lecture, 3 hours lab)

EAS 420 Geology of North America (2) Prerequisite: EAS 120. A study of the geologic framework of the North American continent with emphasis on the significant geologic problems of each province. (1½ hours lecture, 1½ lab)

EAS 430/530 Oceanography (3) An analytic study of the ocean floor, inherent motions of water and the chemical properties of the oceans. Graduate students will do an additional project and write a paper.

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

EAS 501 Astronomy (4) See EAS 401

EAS 530 Oceanography (3) See EAS 430

**Economics (ECO)  
Business & Economics Department  
School of Business & Technology  
Gardner Hall**

**Objectives:** Economics is the study of how productive resources are allocated in society and what impact this allocation has on the well being of members in society. The program includes courses that focus on economic activity in individual markets, the national economic system or the global economy. The impact of public policy on society is covered. The intention of this course of study is (1) to provide general courses of study of the field, (2) prepare students for careers in business and government, and (3) prepare students for further graduate study in fields such as law, business and economics. Students may choose to pursue an Economics minor, a Business Administration major with a concentration in Economics, or a Social Sciences major with an Economics concentration.

**Minor in Economics: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

ECO 202 Principles of Macroeconomics .....	3
203 Principles of Microeconomics .....	3
302 Intermediate Macroeconomics .....	3
303 Intermediate Microeconomics .....	3
SSC 319 Statistics for the Social Sciences <b>or</b>	
BUS 226 Business Statistics .....	3
Economics Electives (Upper Level).....	6

**Undergraduate Courses**

ECO 202 Principles of Macroeconomics (3) In this course the principal macroeconomic measurements of national production; unemployment and inflation will be introduced. Theories of how these measures interact and how they are influenced by activity in households, businesses, the Federal Government and the Federal Reserve System, as well as the impact of international trade, will also be studied.

ECO 203 Principles of Microeconomics (3) In this course the principal microeconomic market model of supply and demand will be studied. Additional topics introduced to add to our understanding of the basic model will include resource allocation concepts, production and cost theory, consumer theory and market structure conditions.

ECO 302 Intermediate Macroeconomics (3) Prerequisites: ECO 202 and Junior Standing. Determination of the level of national income, output and employment according to Classical, Keynesian and Modern theories. The mechanism and evaluation of stabilization policies in a global economy is discussed.

ECO 303 Intermediate Microeconomics (3) Prerequisites: ECO 203 and Junior Standing. The general framework for economic analysis of activity in a market for a product will be covered. The standard treatment of consumer and producer theory, as well as market structure influences on

pricing and output activity, will be presented. Areas of application will include the labor markets, financial markets and the legal environment of business. By employing measures of economic well-being as a policy evaluation tool, particular attention will be paid to how market transactions affect the market participants and society in general.

ECO 310 Money & Banking (3) Prerequisites: ECO 202 and Junior Standing. A study of the historical evolution of the United States money and financial institutions, their current status, regulation and its impact on the whole economy. Topics include regulatory functions of the Central Bank and their relationships to sectoral, regional and aggregate output, price level and employment, an introduction to monetary theory and policies.

ECO 320 Labor Economics (3) Prerequisites: ECO 203 and Junior Standing. A study of the labor market focusing on demand for labor, supply of labor, wage determination and occupational wage differential, investment in human capital, discrimination and labor market outcomes, collective bargaining, industrial relations, labor laws, employment, unemployment, and related public policy issues.

ECO 350 Economic Development (3) Prerequisites: 3 hours of Economics and Junior Standing. A study of the economic conditions of the Third World Countries analyzing historical and institutional aspects as to why they are underdeveloped. Modern development theories are introduced and their application to the Third World Countries are discussed.

ECO 360 Global Economics (3) Prerequisite: Junior Standing. Basic economic concepts and their applications are introduced with the study of the trade links of different countries of the world in a global economy. The theory of international trade, the role of international agencies, World Bank, IMF, GATT and various trade blocks in a global economy are discussed.

ECO 430 International Economics (3) Prerequisites: 3 hours of Economics and Junior Standing. A study of the principles and theories of international trade, finance, foreign investment, barriers to trade, and international economic cooperation. This course provides the necessary tools to

interpret, evaluate and analyze the changing international economy.

ECO 444 Topics in Economics (3) Prerequisite: Junior Standing. Current or special issues in Economics will be examined. The course offers students the opportunity to discuss relevant issues facing society. The course may be repeated for credit, by advisement, when no duplication of topics exists.

ECO 470 Industrial Organization (3) Prerequisites: ECO 203 and Junior Standing. A study of the forces shaping the structure of industries and the way in which the structure of markets influences pricing, advertising, unemployment and income distribution in the economy. The evolution of public policy in relationship with the corporation is discussed.

#### **Cross Listed Courses:**

GEO 315 World Economic Geography (3) May be taken as an elective in the Economics minor.

#### **Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

ECO 501 Foundations of Statistics and Economics (3) Prerequisite: Approval of MBA Director. This course is designed to provide the student with a working knowledge of statistics and economics from a decision maker's perspective. (MBA foundation course)

ECO 600 Studies in Economics Education (3) Designed for secondary schoolteachers, this course examines selected themes in economics education. Content and title will vary. May be repeated if topic and title are different.

ECO 650 Managerial Economics (3) Prerequisites: CBK Economics or ECO 501. See MBA section. Application of microeconomic theories in private and public managerial decision-making including an analysis of market structure and its effect on price and output determination. The course incorporates a global perspective and estimation of econometric models for business, government and non-profit organizations.

#### **Educated Perspective Seminar (EPS)**

**Objectives:** Educated Perspective Seminar courses are designed to help students to conceptualize the integration of disciplines within the liberal arts perspective. They utilize the knowledge and skills emphasized in the General Education program. Seminars will help students 1) expand communication skills, 2) develop further competence in investigative processes, 3) increase awareness in human understanding by examining topics from a variety of perspectives, and 4) enhance awareness of one's role in society.

#### **Undergraduate Courses**

EPS 300 Educated Perspective Seminar (3) Prerequisite: Junior Standing, 60 or more hours completed, 30 hours in General Education. The course incorporates knowledge, concepts, and philosophies across various disciplines by examining a topic of interest pertinent to today's citizens. Students from a variety of majors will come together bringing the perspectives advanced in their majors to the discussions and assignments. When no duplication of topic exists, this course may be repeated for additional credit. See topic descriptions on General Education web page: [http://www.wsc.edu/academic/general\\_education/](http://www.wsc.edu/academic/general_education/).

## Education (EDU)

### Educational Foundations & Leadership Department School of Education & Counseling Brandenburg Education Building

**Objectives:** Wayne State College prepares candidates for certification in Special Education-MMH, Early Childhood Education Unified, Elementary Education, Middle Grades Education, and Secondary Education, as well as other supplemental endorsements (see Teaching Programs in Undergraduate Studies section of General Information).

Undergraduate students preparing to teach in secondary schools must elect a field endorsement or two subject endorsements (except that students may graduate with a single subject endorsement in English Education) in addition to coursework in General Education and Professional Education.

Undergraduate students preparing to teach in early childhood, the elementary grades, or middle grades must obtain the field endorsement in addition to the required General Education and Professional Education coursework. Students preparing for K-12 endorsement in art, health and physical education, music, or special education-mildly/moderately handicapped must also complete student teaching at both levels as well as the General Education and Professional Education requirements.

Undergraduate students preparing for endorsement in two subjects at different instructional levels, e.g. Physical Education K-6 and Biology 7-12, must also complete student teaching at both levels as well as the General Education and Professional Education requirements.

Graduate students preparing for initial certification may select from either subject or field endorsements or a combination thereof, but must declare at least one endorsement. Special endorsements may be added to field or subject endorsements as appropriate (see full listing in Teaching Programs section of this catalog). Please contact the Director of Field Experience and Teacher Certification for further program requirements.

All students shall declare their endorsements at the Office of Records and Registration after making a choice.

### Program Entry and Advancement

Admission to WSC does not guarantee entry into its teacher education programs. Students preparing for professional education must meet benchmark criteria at multiple stages in order to pass through established Gateways. **It is the student's responsibility to confirm with the Field Experience Office that adequate progress has been made on each benchmark.** Copies of programmatic Gateways, with benchmarks, are available in the Office of the Dean of Education & Counseling or on the website.

### Gateway #1

The first of four Gateways consists of the following benchmarks that must be accomplished:

1. Completion of a notarized affirmation form as required by Rules 20 and 21. This rule requires affirmation that no convictions for felonies or misdemeanors involving moral turpitude exist. This form must be filed in the Field

Experience Office; ANY further convictions must be brought to the attention of the Field Experience Office immediately after being convicted.

2. Cumulative GPA of 2.0 or better.
3. Completion of CNA 100, Principles of Human Communication, with a grade of C or better.
4. Completion of ENG 102, Composition Skills, with a grade of C or better.
5. Completion of EDU 201, Introduction to Professional Education, with a grade of C or better.
6. Receive favorable recommendations from classroom teachers in field assignment (EDU 201).
7. The same high moral and personal standards as required of certified teachers by the laws of the State of Nebraska. Violation of institutional and/or Board of Trustees policies or regulations can be sufficient cause for dismissal from the teacher education program.
8. Teacher education students shall be free from those physical, emotional, and mental impairments such as would cause revocation of a teaching certificate by the State Board of Education.
9. Application for Gateway One completed and on file in Field Experience Office.
10. Successful completion of assessment portfolio requirements.

### Gateway #2

Students must pass through Gateway #2 in order to enroll in any 300-400 level EDU or SPD course. **Note: No student will be permitted to enroll in any 300 or 400 level EDU and SPD prefix courses until Gateway #2 is passed.** This does not apply to EDU 303 Developmentally Appropriate Practices for the Young child, EDU 367 Human Relations, or to courses with prefixes other than EDU or SPD.

The second of four Gateways consists of the following benchmarks that must be accomplished:

1. Completion of the Pre-Professional Skills Test (PPST) with minimum scores of 170 (Reading), 171 (Mathematics), and 172 (Writing) on the exam. Scores must be on file in the Field Experience Office.
2. Favorable recommendation from each endorsement area on file in Field Experience Office.
3. Favorable recommendation from education faculty on file in Field Experience Office.
4. Favorable recommendation from WSC general faculty outside of the School of Education and Counseling on file in the Field Experience Office.
5. Maintain at least a 2.5 overall GPA.
6. Maintain at least a 2.5 GPA in all professional education coursework (when two or more courses have been completed).
7. Maintain at least a 2.5 GPA in all endorsement area coursework (when two or more courses have been completed).
8. Evidence of curriculum development/instruction potential as verified through EDU 275 instructor and evidence of technology proficiency verified through coursework or demonstration. (ELEMENTARY, MIDDLE GRADE,

AND EARLY CHILDHOOD UNIFIED ONLY).

9. Students must earn a C or higher in all 300-400 EDU and SPD coursework and all professional education courses.
10. Earn a C or higher on all SPD endorsement courses. (SPECIAL EDUCATION ONLY)
11. Approval of the Professional Progress Committee to take required program courses beyond Gateway #2.
12. Successful completion of assessment portfolio requirements.

### Approval Process

The names of students who have met the criteria for Gateway #2 will be submitted to the Professional Progress Committee for approval. Applicants will be notified in writing of the action of the Committee. Applicants not approved for Gateway #2 will be notified and may be given the opportunity to meet identified benchmarks to the satisfaction of the Professional Progress Committee.

Students who transfer from other institutions should meet with the Dean of Education or his/her designee regarding their placement relative to the established Gateways. Transfer students who do not complete this process during their first semester at WSC will not be allowed to enroll in subsequent education course work.

### Gateway #3

1. Successful completion of all required coursework except student teaching.
2. Maintain at least a 2.5 overall GPA.
3. Maintain at least a 2.5 GPA in professional education coursework (including C or better in all 300/400 level SPD or EDU courses).
4. Maintain at least a 2.5 GPA in endorsement area.
5. Application for student teaching complete.
6. Successful completion of assessment portfolio requirements.

### Requirements for Approval to Student Teach:

All eligibility requirements must be met by the deadlines to be considered for acceptance.

1. Completion of at least one semester (12 semester hours) of resident study at WSC.
2. Successful completion of the first three Gateways.
3. Completion of all General Education requirements.
4. Completion of all hours required for each field and/or subject endorsement.
5. A cumulative GPA of 2.5 in all course work, in each field and subject endorsement, and in all professional education courses.
6. Completion of all EDU/SPD 300-400 level and professional education course work with a "C" grade (i.e. 2.0) or better.
7. Completion of all professional education course work to include at least 100 clock hours of pre-student teaching field experience.
8. Completion of all appropriate application forms.
9. Affirmation under oath that the candidate has not been convicted of a felony, nor misdemeanor involving abuse,

neglect, or injury to any person, nor has any other conviction involving moral turpitude.

### Requirements for Directed Teaching

Undergraduate teacher candidates are required to have a minimum of one field endorsement or two subject endorsements (except the English subject endorsement which stands alone). Graduate students preparing for initial certification may select from either subject or field endorsements or a combination thereof, but must declare at least one endorsement. Each field endorsement requires 12 credit hours of tuition and fees and a full semester of Directed Teaching. Each subject endorsement requires 6 credit hours of tuition and fees.

Candidates who elect to complete two field endorsements must pay for 24 credit hours of tuition and fees and complete two full semesters of Directed Teaching. A candidate with a field endorsement and one subject endorsement must pay for 18 credit hours and complete 20 weeks (one full semester plus) of Directed Teaching.

Students who currently hold a Nebraska teaching certificate and are returning for an additional endorsement should contact the Director of Field Experience to discuss student teaching requirements.

### Gateway #4

1. Successful completion of student teaching.
2. Successful completion of all requirements requisite for graduation.
3. Successful completion of assessment portfolio requirements.

**It is the responsibility of the student to know these benchmarks and to stay in contact with the Field Experience Office to be sure that adequate progress is being made.**

### Early Childhood Education Unified Birth-Grade 3

**Objectives:** Individuals are provided with opportunities to develop knowledge, understanding, skills, and competencies for teaching infants through grade 3. On completion of the program, the student is prepared for a teaching position or for graduate level work.

### Specific courses required to meet General Education and state certification:

Complete MAT 210 Mathematics for Elementary School Teachers I (3) to satisfy the Block 2 Mathematics General Education requirement.

### Early Childhood Education Unified Birth-Grade 3, Professional Education Courses: 32 hours

EDU	201 Intro to Professional Education .....	3
	211 Child & Adol Growth & Dev.....	3
	275 Introduction to P-12 Instruction .....	3
	321 Ed Psych: Models & Theories of Learning .....	3
	367 Human Relations .....	3
	413 Directed Teaching .....	12
	435 Clinical II .....	2
SPD	151 Introduction to Special Education .....	3

### Field Endorsement in Early Childhood Education Unified Birth-Grade 3 (BA or BS) 48 hours

EDU	216 Children's Literature.....	2
	217 Diverse Family Systems .....	3

	230 Integrating Creative Arts for Children.....3
	303 Developmentally Appropriate Practices for the Young Child .....3
	340 Early Reading and Language Arts.....4
	430 Literacy Assessment .....3
	432 Dev of Math in the EI/Mid Sch .....3
FCS	120 Intro to Early Childhood Education .....2
	220 Infancy and Toddlers .....3
	230 The Pre-School Age Child .....3
	316 Guiding the Young Child .....3
	325 Health & Safety for the Young Child .....3
	430 Org & Ad of ECE Programs .....3
SPD	260 Char & Meth: Birth through Age 4.....2
	261 Char & Meth: Age 5 through Age 8 .....2
	430 Behavioral Intervention for the LRE.....3
	452 Consultation & Collaboration Practices for Exceptional Learners.....3
Highly recommended coursework: EDU 406 Classroom Management (3), EDU 302 Curriculum and Assessment (3).	

**Subject Endorsement in Early Childhood Education Birth - Grade 3 (BA or BS) 30 hours**

This endorsement **must be taken in conjunction with the** Elementary K-8 Field Endorsement.

EDU	217 Diverse Family Systems .....3
	303 Developmentally Appropriate Practices for the Young Child .....3
FCS	120 Intro to Early Childhood Education .....2
	220 Infancy and Toddlers .....3
	230 The Pre-School Age Child .....3
	316 Guiding the Young Child .....3
	325 Health & Safety for the Young Child .....3
	416 FCS Practicum.....3
	430 Org & Ad of ECE Programs .....3
SPD	260 Char & Meth: Birth through Age 4.....2
	261 Char & Meth: Age 5 through Age 8 .....2

Student teaching will be completed with EDU 405 (12 hours) and EDU 413 (6 hours).

**Elementary Education**

**Objectives:** Individuals are provided with opportunities to develop knowledge, understanding, skills, and competencies for teaching kindergarten through grade levels: K-6 (K-8 in self-contained classrooms). On completion of the program, the student is prepared for a teaching position or for graduate level work.

**Specific courses required to meet General Education and state certification:**

Elementary Education Endorsement majors must take MAT 210 Mathematics for Elementary School Teachers I (3) in Block 2 and choose a literature course in Block 3 of the General Education program. Additionally, they must take MAT 215 Mathematics for Elementary School Teachers II (3) to meet state certification requirements.

**Transfer students:**

Students transferring from a Nebraska community college with an AA, or AS degree may have to take additional courses to meet state certification requirements; this will be dependent on

the specific courses completed in the associate degree program.

**K-8 Elementary Professional Education Courses: 33 hours**

EDU	201 Intro to Professional Education .....3
	211 Child & Adol Growth and Dev .....3
	217 Diverse Family Systems .....3
	275 Introduction to P-12 Instruction .....3
	321 Ed Psych: Models & Theories of Learning .....3
	367 Human Relations .....3
	405 Directed Teaching (Elementary).....12

SPD	151 Introduction to Special Education .....3
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**Field Endorsement in Elementary Education K-8 (BA or BS) 43 hours**

ART	315 Art and Creative Process in Ed.....2
EDU	110 Overview of Elementary Ed .....1
	216 Children’s Literature.....2
	302 Curric & Assess in Elem Schl .....3
	318 Professional Communication .....3
	331 Develop of Phys Ed and Health in the Elementary School.....3
	335 Clinical Experience I .....2
	340 Early Reading and Language Arts.....4
	341 Intermediate Reading & Language Arts .....4
	406 Classroom Management .....3
	423 Dev of Soc Studies in the EI/Mid Sch.....3
	430 Literacy Assessment .....3
	431 Dev of Science in the EI/Mid Sch .....3
	432 Dev of Math in the EI/Mid Sch .....3
	435 Clinical Experience II .....2
MUS	214 Mus and Creative Process in Ed.....2

**Middle Grades Education**

**Objectives:** Individuals are provided with opportunities to develop knowledge, understanding, skills and competencies for teaching grades four through nine. On completion of the program, the student is prepared for a teaching position grades four through nine.

**Specific courses required to meet General Education and state certification:**

Middle Grades Endorsement majors must take MAT 210 Mathematics for Elementary School Teachers I (3) in Block 2 and choose a literature course **and** either the art course or the music course in Block 3 of the General Education program.

**Middle Grades 4-9 Professional Education Courses: 34 hours**

EDU	201 Intro to Professional Education .....3
	211 Child & Adol Growth & Dev.....3
	275 Introduction to P-12 Instruction .....3
	321 Ed Psych: Models & Theories of Learning .....3
	367 Human Relations .....3
	409 Content Area Meth and Mat (both content areas) .....4
	412 Student Teaching and Seminar Middle Grades (4-9) .....12

SPD	151 Introduction to Special Education .....3
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**Field Endorsement in Middle Grades Education 4-9 (BA or**

**BS) 66-72 hours**

**Core Courses: 30 hours**

EDU 216 Children’s Literature.....2  
 302 Curric & Assess in Elem Schl .....3  
 323 Content Area Practicum.....1  
 341 Intermediate Reading & Language Arts ..... 4  
 350 Middle Grades Teacher.....3  
 406 Classroom Management .....3  
 423 Dev of Soc Studies in El/Mid Sch.....3  
 430 Literacy Assessment .....3  
 431 Dev of Science in El/Mid Sch .....3  
 432 Dev of Math in El/Mid Sch .....3  
 435 Clinical II.....2

**Content Area Courses (minimum 36 hours)**

Demonstrate competence in two (2) or more of the following Content Areas of Specialization with a minimum of 18 semester hours in each for a total of 36 semester hours. An exception is that a full endorsement in any Special Education area, which includes any portion of grades 4-9 may be accepted in lieu of one Content Area of Specialization.

**Business Education Content Area Courses: 18 hours**

BUS 122 Personal Finance **or**  
 124 Introduction to Business .....3  
 208 Business Communications.....3  
 216 Office Information Processing **or**  
 307 Office Systems Technology .....3  
 222 Business Law I .....3  
 240 Accounting I .....3  
 ECO 202 Princ of National Economic System.....3

**Family & Consumer Science Content Area Courses: 22 hours**

FCS 103 Clothing Construction .....3  
 104 Principles of Food Preparation .....3  
 108 Introduction to FCS .....1  
 110 Family & Personal Relationships .....3  
 207 Nutrition .....3  
 230 The Pre-School Age Child **or**  
 316 Guiding the Young Child.....3  
 313 Techniques of Professional Presentation .....3  
 315 Consumer Economics.....3

Recommended/Not Required

CED 463 Intro to Vocational Special Needs (3)

**Foreign Language Content Area Courses**

**Spanish: 20 hours**

SPA 120 Elementary Spanish II .....3  
 210 Intermediate Spanish I.....3  
 215 Language Lab (take twice for 2 hrs total)....2  
 220 Intermediate Spanish II.....3  
 230 Conversation and Composition .....3  
 305 Advanced Grammar & Composition .....3

Choose one of the following.....3

SPA 301 Spanish Civilization (3)  
 302 Spanish American Civilization (3)  
 317 Spanish Literature (3)  
 333 Survey of Spanish American Lit (3)

**French: 20 hours**

FRE 120 Elementary French II .....3  
 210 Intermediate French I .....3

215 Language Lab (take twice for 2 hrs total)....2  
 220 Intermediate French II .....3  
 230 Conversation and Composition .....3  
 Choose two of the following:.....6  
 FRE 313 French Civilization I (3)  
 314 French Civilization II (3)  
 316 Approaches to French Literature (3)  
 415 Advanced Comp & Translation (3)

**Health & Physical Education**

**Content Area Courses: 18 hours**

PED 105 Anatomy & Physiology I .....3  
 241 First Aid & CPR .....2  
 341 Org. Admin & Curr Dev of Sec Health & Physical Education.....3  
 351 Biomechanics .....3  
 361 Meth & Mat in Health and PE.....3  
 407 Motor Percep & Adaptives for Special Populations.....3  
 Activity (111, 131, or 200 level).....1

**Industrial Technology Content Area Courses: 18 hours**

ITE 108 Manufacturing Systems .....3  
 109 Drafting & Design .....3  
 202 Construction Systems .....3  
 210 Intro to Energy, Power, and Transportation Systems.....3  
 326 Tech Lab Design & Mgmt .....3  
 CED 417 Principles of Career Education.....3

**Language Arts Content Area Courses: 19 hours**

CNA 100 Prin of Human Comm .....3  
 ENG 270 Critical Approaches to Lit .....3  
 325 Structure of English.....3  
 384 World Literature.....3  
 442 Teaching Writing .....2  
 443 Young Adult Literature .....2

Choose one of the following.....3

ENG 361 American Literature I (3)  
 362 American Literature II (3)  
 365 Modern American Fiction (3)  
 371 British Literature I (3)  
 372 British Literature II (3)  
 378 Topics in Modern British Literature (3)  
 380 Shakespeare (3)  
 381 Classical Epic & Drama (3)  
 382 Bible as Literature (3)  
 386 Modern World Drama (3)

**Mathematics Content Area Courses: 22 hours**

MAT 130 Pre-Calculus Mathematics .....5  
 140 Calculus I.....5  
 180 Applied Probability and Statistics .....3  
 210 Math for Elem School Teachers I.....3  
 215 Math for Elem School Teachers II.....3  
 270 Foundations of Math.....3

Recommended/Not required

MAT 320 College Geometry (3)

**Natural Science Content Area Courses: 18-19 hrs total**

Earth Science

EAS 120 Introduction to Geology .....4

Life Science

BIO	110 Biology Concepts.....	4
NAT	280 Life Science for Elementary Education.....	3
<b>Physical Science (Choose two)</b>		
PHY	201/321 General Physics and Physics Lab I.....	4
CHE	106 General Chemistry I .....	4
NAT	281 Physical Science for Elem Educ.....	3
<b>Social Science Content Area Courses: 24 hours</b>		
ECO	202 Principles of Macroeconomics .....	3
GEO	120 World Regional Geography .....	3
HIS	170 World Civilizations I.....	3
	171 World Civilizations II .....	3
	180 American Experience I .....	3
	181 American Experience II.....	3
	350 Nebraska History .....	3
POS	100 American National Government.....	3

**Professional Education Courses for K-8, 7-12, K-12 endorsements**

For the following programs see specific subject areas in this catalog for required courses for the field or subject endorsements.

**K-8 (Art, Music, PE) Professional Education Courses: 31-33 hours**

EDU	201 Intro to Professional Education .....	3
	211 Child & Adol Growth & Dev.....	3
	275 Introduction to P-12 Instruction .....	3
	302 Curric & Assess in Elem Schl .....	3
	310 Read & Writ in the Mid/Sec Schl.....	1
	321 Ed Psych: Models and Theories of Learning .....	3
	323 Content Area Practicum (Art & PE only)....	1
	367 Human Relations .....	3
	405 Directed Teaching (Elementary).....	6
	409 Content Area Meth/Mat (Art & PE only) 2-4	

(Music Majors: Vocal: MUS 215; Instrumental: MUS 309)

SPD 151 Introduction to Special Education .....

If a 7-12 Subject Endorsement is combined with one of the above K-8 Subject Endorsements, these additional professional education courses are required:

EDU	322 Secondary Education Practicum.....	1
	400 Secondary Schools.....	2
	409 Content Area Methods and Materials .....	2
	410 Student Teaching and Seminar for the Secondary School.....	6

**7-12 Secondary Professional Education Courses 34-38 hours**

EDU	201 Intro to Professional Education .....	3
	211 Child & Adol Growth & Dev.....	3
	310 Read & Writ in the Mid/Sec Sch .....	1
	<b>or</b>	
ENG	444 Dev Rdg-Middle/Sec Sch.....	2
(ENG 444 required for Engl Educ & Lang Arts Educ students)		
EDU	321 Ed Psych: Models and Theories of Learning .....	3
	322 Secondary Education Practicum.....	1
	323 Content Area Practicum.....	1
	367 Human Relations .....	3

	400 Secondary Schools.....	2
	409 Content Area Meth and Mat .....	2-4
(music majors refer to endorsement requirements)		
	410 Student Teaching and Seminar for the Secondary School.....	12
SPD	151 Introduction to Special Education .....	3

**K-12 (Art, Music, HPE) Professional Education Courses: 37-41 hours**

EDU	201 Intro to Professional Education .....	3
	211 Child & Adol Growth & Dev.....	3
	302 Curric & Assess in Elem Schl .....	3
	310 Read & Writ in the Mid/Sec Sch .....	1
	321 Ed Psych: Models and Theories of Learning .....	3
	322 Secondary Education Practicum.....	1
	323 Content Area Practicum.....	1
	367 Human Relations .....	3
	400 Secondary Schools.....	2
	405 Directed Teaching (Elementary).....	6
	409 Content Area Meth and Mat .....	2-6
(music majors refer to endorsement requirements)		
	410 Student Teaching and Seminar for the Secondary School.....	6
SPD	151 Introduction to Special Education .....	3

**K-12 (Special Education) Professional Education Courses: 26 hours**

EDU	201 Intro to Professional Education .....	3
	211 Child & Adol Growth & Dev.....	3
	321 Ed Psych: Models and Theories of Learning .....	3
	367 Human Relations .....	3
	400 Secondary Schools.....	2
SPD	405 Directed Teaching (Elementary).....	6
	410 Directed Teaching (Secondary) .....	6

**Special Education Field Endorsement:** See Special Education program

**Special Undergraduate Endorsement in English as a Second Language:** See English section

**Special Graduate Endorsement in English as a Second Language:** See English section

**Undergraduate Courses**

EDU 110 Overview of Elementary Education (1) Introduction to inquiry, reflection, and implementation, overview of content integration with pedagogy. This course requires active participation and will be graded satisfactory-no credit (S-NC). Open only to elementary education majors or by permission.

EDU 201 Introduction to Professional Education (3) This course combines study of schools and society with a 25-clock hour field experience in public schools. Students are challenged to reflect on their past experiences, attitudes, and beliefs and compare them with qualities of good teaching. They are introduced to historical perspectives and philosophical questions to understand the purpose, role,

and function of schools in society and provide structure on which the theories and models of teaching in succeeding courses are developed.

- EDU 211 Child and Adolescent Growth and Development (3) Students construct a conceptual basis for understanding the growth and development of children from birth through adolescence. Fundamental theories of cognitive, social-emotional, physical and moral development are explored in order to better understand the importance of the nurturing role of the teacher in human development and learning.
- EDU 216 Children's Literature (2) A study of children's literature to include historical development, contemporary topics and trends, genre, author/illustrator study, and integration into the elementary curriculum.
- EDU 217 Diverse Family Systems (3) The conflict between assumptions and realities in regard to the modern American family and its effect on the learning of children is the focus of this course. Students will begin to understand the developmental stages of careers, families and individuals and the study of systems theory. Students will examine techniques and programs to involve families in assessing and planning for individual children including children with disabilities and developmental delays and gifted children. The study of parenting relationships within families and communities and identifying and working with at-risk children, children of diverse cultures, and children of dysfunctional families prepare students to link the school with the community.
- EDU 225 Educational Technology Applications (1) An introduction to the use of technology as an instructional tool. Basic technology skills will be developed using activities that could be integrated into the K-12 curriculum. National, state and Elementary Education program technology competencies will be addressed. May be repeated with different topics up to six hours.
- EDU 230 Integrating the Creative Arts for Children (3) This activity-based course will use the integration of art, music, theater and movement with the major curricular themes in early childhood education to extend and enrich learning. Through interdisciplinary themes and connections the students will be guided in the development and sharing of thematic units, hands-on activities, and instructional strategies with respect to curricular integration.
- EDU 275 Introduction to P-12 Instruction (3) Prerequisite: Completion of or concurrent enrollment in EDU 201 Introduction to Professional Education. Through exploration of research-based teaching models this course connects students' intuitive talents with methods of teaching in order to prepare a working knowledge base for teaching. The course allows for the integration and application of methods, materials, and lesson planning. This course will include field and/or clinical experiences.
- EDU 302 Curriculum and Assessment in the Elementary School (3) A holistic view of curriculum planning, implementation and assessment in the elementary school. Will address development of mission statements, goals and outcomes.

Field experience will be arranged.

- EDU 303 Developmentally Appropriate Practices for the Young Child (3) Prerequisites: FCS 120, 220 and 230. Completion of any Gateway not required. A methods course focusing on effective strategies for working with young children (birth through age 8). Emphasis is placed on inquiry and critical thinking in social studies, science, health and safety as well as classroom management.
- EDU 310 Reading and Writing in the Middle/Secondary School (1) Prerequisite: Admission to teacher education. This course addresses the methodology, practical application, and variations for teaching reading and writing. The focus of the course is to provide reading and writing strategies that provide tools to enhance content area instruction.
- EDU 318 Professional Communication (3) Students will examine the concepts of written and spoken communication as practiced in a healthy, productive school environment with a focus on human interaction. Students will evaluate their communicative ability in parent-teacher conferencing, staff meetings, interpretations of test results and in day-to-day communication with students, colleagues and administration.
- EDU 321 Educational Psychology: Models and Theories of Learning (3) Prerequisite: Admission to teacher education. Continuing to build the knowledge base of a professional, the nature of the learner is the focus of this course. Students will begin to understand the human learning process and individual differences in learning styles as explained by theoretical models and current research on the brain. Learning theories to be examined include, but are not limited to, those advanced by cognitive, behavioral, social, and humanistic psychology. In addition, students will demonstrate ways that learning models are integrated into effective teaching, preparing them to understand a variety of teaching methods.
- EDU 322 Secondary Education Practicum (1) Prerequisite: Admission to teacher education. A field experience, offered with EDU 400 Secondary Schools, designed for practical application of the teaching, learning process. This course explores awareness of the entire school, how students learn, and what teachers really do. (Note: Special Education majors are exempted from this course.)
- EDU 323 Content Area Practicum (1) Prerequisite: Admission to teacher education. A field experience, offered with EDU 409 Content Area Methods and Materials, designed with the content area(s) for practical application of the teaching, learning process. This course will focus on active participation within the classroom setting under supervision of the classroom teacher.
- EDU 331 Development of Physical Education and Health in the Elementary School (3) Prerequisite: Admission to teacher education. To prepare emergent professionals to be confident in their ability to implement Physical Education and Health and to create an environment in

which students become confident learners and participants of Physical Education and Health.

EDU 335 Clinical Experience I (2) Prerequisites: Completion of Gateway 2 and the Technology Proficiency. Must be taken concurrently with EDU 423. Incorporating knowledge and skills developed in all previous and current Professional Education and Elementary Field Endorsement course work with emphasis on language arts and social studies. Will include significant field experience.

EDU 340 Early Reading and Language Arts (4) Prerequisite: completion of Gateway 2, EDU 216, EDU 275 or SPD 260. Current methods, materials, and research findings related to the teaching of the six language arts in a balanced program up through the primary level with special emphasis on reading and writing. Comprehension, fluency, phonemic awareness and phonics instruction will be addressed.

EDU 341 Intermediate Reading and Language Arts (4) Prerequisite: completion of Gateway 2, EDU 216, EDU 275 or SPD 261. Current methods, materials, and research findings related to the teaching of the six language arts in a balanced program up through the intermediate level with special emphasis on reading and writing. Content area reading, vocabulary development, and comprehension will be addressed.

EDU 350 The Middle Grades Teacher (3) Prerequisite: Admission to teacher education and Gateway 2 passage. In this course, students will examine the history and philosophy of middle grades education, the concepts of teaming and learning communities, knowledge specific to curriculum and learner-centered instructional design, assessment appropriate for middle grades learners, and other organizational and communication models specific to middle grades education. This course should be taken prior to enrollment in EDU 332, 423, 431, 432, and the two required sections of EDU 409.

EDU 367/567 Human Relations (3) Prerequisite: (Education Majors Only) Completion of EDU 201 with a grade of C or better, or graduate standing, or instructor approval. This course provides a critical examination of community and its relationship to the well-being of individuals and groups. Building on students' experience of differences in learning and culture, course activities will help students develop observation and communication skills, and understand the types of professional relationships that sustain diverse groups in school and community. The course establishes a base of human relations that significantly influence the learning of teaching methods in students' specialty areas. This course is required and approved by the Nebraska Department of Education for meeting Nebraska certification requirements.

EDU 380 Models of Discipline for the Secondary Classroom (2). Prerequisite: Admission to teacher education. To assist 7-12 preservice teachers to develop an optimal discipline system. This development reflects the belief that the most

effective discipline system is one designed by the individual teacher. The course further assists the preservice teacher to organize and implement a discipline system that addresses student needs, social realities, and diverse styles of learning and teaching.

EDU 400 Secondary Schools (2) Prerequisite: Admission to teacher education. This course examines the development of the course of study, a lesson plan, a unit plan, objectives, planning, methodology, assessment, and the use of multimedia. Offered with EDU 322 Secondary Education Practicum.

EDU 405 Directed Teaching, Elementary School (6-12) Prerequisite: Admission to the professional semester. Qualified senior students shall make application at the beginning of the second term of the junior year. (Graded S-NC)

EDU 406 Classroom Management (3) Prerequisite: Admission to teacher education. Effective procedures to establish, monitor, assess and revise classroom procedures to facilitate learning and protect the dignity of the learner. Causes of student behavior, intervention strategies, and goal setting procedures will be used to help students develop physically, socially, academically and emotionally.

EDU 409 Content Area Methods and Materials (2) Prerequisite: Admission to teacher education. This course examines the content, methods, techniques and materials, including bibliography, in the student's endorsed area. The course also addresses the relationship of the content areas to the total curriculum. (See music for other requirements). Taken concurrently with EDU 323 Content Area Practicum. Since background in objective writing, teaching methodology, lesson and unit design, and assessment is important; it is recommended that students take EDU 400 before enrolling in this course.

EDU 410 Student Teaching and Seminar for the Secondary School (6-12) Prerequisite: Admission to teacher education. A semester course of full day learning experiences under the supervision of a coordinating 7-12 teacher and a WSC supervisor from the School of Education & Counseling and appropriate content area. The Department of Secondary Education assists preservice teachers to further their professional development through a series of on-campus seminars offered periodically throughout the semester. Student teaching is the culminating experience of the 7-12 preservice teacher education program. Any experienced teacher adding an endorsement, who has not done student teaching in the added endorsement, must complete additional student teaching as follows: 7-12 Field-6 hours; 7-12 Subject-6 hours; K-8 Field-6 hours; K-8 Subject-6 hours; K-12 Field-12 hours (6 of K-8 and 6 of 7-12) (Graded S-NC)

EDU 412 Student Teaching and Seminar for the Middle Grades 4-9 (6-12) Prerequisite: Admission to teacher education. A semester course of full day learning experiences in a middle school under the supervision of a coordinating 4-9 teacher and a WSC supervisor from the School of Education

& Counseling and appropriate content area. On-campus seminars will be offered periodically throughout the semester. (Graded S-NC)

EDU 413 Directed Teaching and Seminar for Early Childhood (6-12) Prerequisite: Admission to Teacher Education. A semester course of full day learning experiences in an early childhood setting within an approved or accredited school. This is the culminating experience for students seeking an endorsement in Early Childhood Education Unified. (Graded S-NC)

EDU 415/515 ESL Programs, Curriculum, and Assessment (3) A course to examine programs providing appropriate education for English Language Learners. Curriculum will be evaluated relative to the research in second language acquisition. Modules on formal assessment for placement and growth and informal (authentic) assessment will also be provided. Clinical experience will be included. Graduate students will complete an additional project relating to the theorists who have contributed to understanding of ESL programs, curriculum, and assessment.

EDU 416/516 ESL Methods and Assessment (3) A course designed to examine methods appropriate for English Language Learners including sheltered English, total physical approach, comprehensions based and affective-humanistic approaches. Techniques for an authentic (informal) assessment of Limited English Proficient students and goal setting based on results of formal assessment as well as clinical experience will be included. Graduate students will complete a project relative to the use of appropriate methods or assessments of ELL (English Language Learner) students.

EDU 417/517 English as a Second Language Practicum K-12 (3) Prerequisites: EDU 415/515, EDU 416/516. A course designed to offer students opportunities to work within English as a Second Language K-12 programs and develop skill in methods and assessment relating to English Language Learners. Reflection and peer discussion will be part of the course. Undergraduate students will complete a minimum of 30 hours and graduate students will complete a minimum of 45 hours.

EDU 423 Development of Social Studies in the Elementary and Middle School (3) Prerequisite: Admission to teacher education. To prepare emergent professionals to become confident in their ability to implement Social Studies and to create an environment in which students become confident learners and participants of Social Studies.

EDU 430/530 Literacy Assessment (3) Prerequisite: Successful completion of EDU 340 or 341 or graduate standing. The assessment, analysis and instruction of children's literacy development to include a field experience.

EDU 431 Development of Science in the Elementary and Middle School (3) Prerequisites: Admission to teacher education and completion of one (1) course in General Education Biology or Physical Science. To prepare emergent professionals to become confident in their ability

to implement Science activities and to create an environment in which students become confident learners and participants of Science. Must be taken during the semester prior to Directed Teaching.

EDU 432 Development of Mathematics in the Elementary and Middle School (3) Prerequisites: Admission to teacher education and completion of all course work except the Professional Semester and Directed Teaching. To prepare emergent professionals to become confident in their ability to implement Mathematics and to create an environment in which students become confident learners and participants of Mathematics. Must be taken during the semester prior to Directed Teaching.

EDU 435 Clinical Experience II (2) Prerequisites: Completion of Gateway 2 and EDU 323, 335, or FCS 316. Incorporation of knowledge and skills developed in all previous and current Professional Education and Elementary/Middle Grades/Early Childhood Field Endorsement course work with emphasis on science and mathematics. Will include significant field experience. Must be taken the semester prior to Directed Teaching.

**Eligible seniors may enroll in 500 level graduate courses.  
Graduate Courses**

EDU 515 ESL Programs, Curriculum, and Assessment (3) See EDU 415

EDU 516 ESL Methods and Assessment (3) See EDU 416

EDU 517 English as a Second Language Practicum K-12 (3) See EDU 417

EDU 530 Literacy Assessment (3) See EDU 430

EDU 567 Human Relations (3) See EDU 367

EDU 590 Workshop in Education (1-3) Normally offered in the summer in one-to four-week sessions, dealing with current education problems. For experienced teachers only. A maximum of 3 hours of workshop credit may be applied to a master's degree.

EDU 600 Literacy through Literature for Children (3) An advanced course in children's literature will focus on all genre including contemporary authors and multicultural materials for elementary school applications. An emphasis will be given to the integration of literature across the curriculum to facilitate literacy.

EDU 603 Introduction to Graduate Studies (1) This is an introductory course to graduate study designed to provide students with a foundation for professional development. Participants will identify and explore the skills needed to bring theory and practice together through inquiry, reflection, and implementation. The purpose, goals, and outcomes of individual graduate programs will be discussed. Assessment of communication, writing, and technology will also be included. Explanation and expectations of all WSC graduate programs will be addressed. The graduate program plan of study will be completed in this course.

EDU 604 Communication and Language Arts for Children (3) A course designed to enhance instruction and assessment of elementary students' communication skills to include reading, writing, listening and speaking. Special emphasis will focus on how messages are facilitated in the classroom through the teacher and students, media, and informational technologies.

EDU 605 Curriculum and Methods Appropriate for Ages Birth-8 (3) Planning, implementing, and evaluating developmentally appropriate and integrated curricula for young children in the areas of language, literacy, mathematics, science, social studies, the arts, and health and safety; planning for and implementing developmentally appropriate methods for the learning of young children.

EDU 609 Educational Media and Technology (3) This beginning course introduces students to computer equipment and applications that are fast becoming essential classroom tools. Through hands-on experience, students will have the opportunity to develop a working familiarity with computers; educational CD-ROM packages; classroom computer presentation equipment and software; commercial research databases such as ERIC; electronic communications/learning tools; and multimedia applications. Students will also begin to develop an understanding of the concept of computer-assisted instruction and assessment.

EDU 610 Elementary School Administration P-8 (3) A study of the role and responsibility of the elementary principal as a school leader and manager. Topics include leadership concepts, public relations, student personnel policies, student activities, guidance services, class scheduling and evaluation of the educational programs.

EDU 611 Secondary School Administration 7-12 (3) The study of the role and responsibility of the secondary principal as a school leader and manager. Topics include leadership concepts, public relations, student personnel policies, student activities, guidance services, class scheduling, and evaluating the education program.

EDU 612 Social Sciences for Children (3) A course designed to enhance instruction and assessment of elementary students' understanding of the social sciences to include anthropology, economics, geography, government, history, psychology, and sociology. Participants will develop curriculum and classroom management techniques to create in elementary students a desire to know how the social sciences influence our lives.

EDU 613 Scientific Research for Children (3) A course designed to enhance instruction and assessment of elementary students' abilities to complete the steps of the scientific method. Participants will develop curriculum, materials and classroom management techniques to create a disposition in students to appreciate the natural world.

EDU 614 Mathematical Reasoning and Problem Solving for Children (3) A course designed to enhance instruction and assessment of elementary students' understanding of

mathematics in a technological society as defined in the National Council of Teachers of Mathematics curriculum, assessment and professional standards documents.

EDU 617 Assessment of Needs for Young Children Birth-8 (3) Study of formal and informal assessment procedures for youth from birth to grade three.

EDU 626 Advanced Educational Psychology (3) A study of theories of learning and motivation, conditions and processes of cognitive, affective, and psychomotor learning; personal qualities of a teacher; the teaching process, classroom management; teaching the exceptional learner; and the role of evaluation in learning and teaching.

EDU 627 Current Issues and Trends in Education (2) This course explores issues that have direct impact upon education. It presents a comprehensive approach to the exploration of these various, selected topics. The course offers opportunities for the student to examine relevant topics affecting education in breadth and depth.

EDU 628 Re-certification Practicum (1-6) A practicum consisting of one hundred or more clock hours of contact with students in the classroom setting, fifty percent of which shall consist of performing instructional duties under the supervision of a designated supervisor. The practicum is a requirement by the Nebraska Department of Education for renewing certificates that have lapsed more than five years. (Graded S-NC)

EDU 629 Research Application: Theory Into Practice (3-6) Original research in education collaboratively designed by student and faculty advisor. The results of the research project may be presented to faculty, school boards, community groups, or other appropriate groups.

EDU 632 Clinical for Early Childhood (3) Prerequisites: All previous course work in the endorsement. A one-semester experience and study concerning programs in early childhood education in selected school settings. Arranged cooperatively with public/private schools and Wayne State College. This is the final course in the ECE program. Includes 40 clinical hours

EDU 636 Introduction to Alternative Education (3) This course is an introduction and overview of alternative education in America and provides specific information about at-risk youth: identification and characteristics as well as historical, economic, social and political aspects of alternative education. Plans, programs, and alternative schools will be reviewed. Overall, this course provides experienced teachers with knowledge and skills, needed for the identification of at-risk youth, program planning, and implementation. Each student will be required to develop a local plan of action to identify and assist at-risk youth.

EDU 637 Program and Teaching Strategies for Atypical Populations (3) This course presents a wide variety of methods and materials that can be used for individualized

instruction: computer-aided instruction; tutorial guidelines; independent study; community centered experiences; outcome based education; home-based programs; teacher-student negotiated curricula; and distance learning. The course builds on the basic knowledge of Advanced Educational Psychology to develop additional skills in teaching for life-long learning. The skills developed are appropriate for all levels of learning, Pre-K through Adult Education.

EDU 638 Practicum for Alternative School Teachers (3) This on-site experience provides students an opportunity to bring together theory and practice in an alternative education learning environment. The actual field experience is planned jointly by student and practicum supervisor and includes activities that address the needs of at-risk youth.

EDU 650 Research Design (3) A course designed to develop knowledge of research, research skills and practical utilization of research information. Graduate students will be expected to use technology effectively and efficiently for any of the following purposes: to conduct literature reviews, to formulate research problems, to develop proposals, to participate in active research problems, and/or to understand and apply basic research tools of both quantitative and qualitative analyses. Research Design has a variable prefix (EDU, ENG, HIS, etc.). Depending on the prefix, the course will be taught by content or education faculty members.

EDU 651 Classroom Assessment (2) Prerequisite: Learning Community Commitment. This class is designed to acquaint students with the latest research related to classroom assessment techniques and, further, to create opportunities for teachers to try out new assessment practices in their own classrooms. Special attention will be given to efficient classroom data management routines that can minimize the time burden for teachers while maximizing their understanding of individual student strengths and weaknesses. Enrollment in this class is limited to those students pursuing an MSE in Curriculum and Instruction through the Learning Community format.

EDU 652 Instructional Theory and Practice (4) Prerequisite: Learning Community Commitment. This class is designed to acquaint students with the latest research related to instructional theory and, further, to create opportunities for teachers to try out new instructional approaches. The course will survey various systems that teachers may use to assess the pros and cons of various instructional approaches. Enrollment in this class is limited to those students pursuing an MSE in Curriculum and Instruction through the Learning Community format.

EDU 654 Middle School Administration (3) A course designed to acquaint the student with administrative theories, principles, organization, and philosophy for the middle grades school. This course is a systematic study of the

middle school principalship. Emphasis is placed on relating theories of administration, learning and teaching in the middle grades, and an organization of the middle grades school to address the unique needs of the middle grades student.

EDU 655 School Law: Constitutional Aspects and Cases (3) A course designed to acquaint the student with the principles of school law. Some of the areas included are: The legal system; compulsory schooling; control over students; control over teachers; freedom and religion; and control over ideas.

EDU 656 School Law: Operational Aspects and Cases (3) A course designed to acquaint the student with the principles of school law. Some of the areas included are: The legal system; school administrative structure; school organization; tort liability; financing public education and private education.

EDU 657 School Organization and Administration (3) A course designed to provide the student with a background of the conceptual milieu of the school administrator and the organization of public education in order to prepare for the rapid changes in the field of education that demand an integration of theory, knowledge and practice.

EDU 658 Fundamentals of Curriculum Development K-12 (3) A course designed to examine the principles underlying the development of a K-12 public school curriculum. Emphasis on methods of determining priorities, objectives, scope and sequence and organizational patterns. The roles of state and local involvement will also be examined.

EDU 659 Finance/Facilities (3) Common school finance procedures and school facilities planning and management will be the focus of this course. Emphasis will be placed on the application of theory into practice concerning daily budgeting activities and facilities planning.

EDU 660 Supervising the Student Teacher (3) A course for persons who wish to be one of the following: cooperating teacher in a school off-campus; supervising teacher in a campus laboratory school; administrator in a school system where there are student teachers; college director of student teaching.

EDU 666 Supervision of Instruction (Elementary-Secondary) (3) A course designed to acquaint student with leadership strategy, which will help administrators, supervisors, department chairpersons, or others with supervisory responsibility for improving the effectiveness of the teacher-learning process. Emphasis on the conditions and process of supervision.

EDU 674 History and Philosophy of Education (3) Philosophies and theories underlying the American educational system. An analysis of the differing

philosophies of education and their implications for education in a democratic society.

EDU 682 Developing and Integrating Computer Applications in the Classroom (3) Prerequisite: EDU 609 or demonstration of comparable computer proficiency. This is an advanced course in which students will use computers and multimedia applications to develop professional-level classroom presentations and interactive teaching/learning projects. This course is also designed to help participants integrate instructional principles and assessment practices with the use of computers and related technology in the classroom. This course will also touch on distance learning, as well as various electronic communication technologies as educational tools. Students will develop a broader understanding of computer-assisted instruction and assessment and design instructional units that utilize technology in the curriculum of one's subject area(s) or grade level(s).

EDU 685 Management of Educational Technology (3) This course is designed to prepare participants to coordinate the use of computers and related technology within the school. One focus of the course will be to explore the principles and theories underlying computer-assisted instruction and assessment within the school curriculum. The course will also enable students to develop the skills needed to coordinate computer labs and to work with teachers, administrators and vendors as related to technology use within the school.

EDU 689 Internship in Administration P-8 (3) A one semester experience and study concerning administrative functions in selected P-8 school settings. Arranged cooperatively with public/private schools and Wayne State College. Course objectives prescribed in EDU 689 syllabus include 110 internship hours.

EDU 690 Internship in Administration 7-12 (3) A one semester experience and study concerning administrative functions in selected 7-12 school settings. Arranged cooperatively with public/private schools and Wayne State College. Course objectives prescribed in EDU 690 syllabus include 110 internship hours.

EDU 698 Practicum or Seminar (1-6) A course designed for the graduate student who desires competency in special contemporary areas.

EDU 700 The Superintendency (3) An examination of the administrators role in general supervision of education programs, to include a broad overview of the role and function of the school superintendent in the selection and development of staff and professional personnel, physical plant maintenance, transportation, public relations, planning, fiscal responsibilities and politics in the community.

EDU 704 School Law for Administrators (3) A course designed for in-depth study of current state statutes, federal legislation, significant court cases and rule-making which affect school financing, accreditation, contractual agreements, downsizing, consolidation, and teacher/student rights and responsibilities.

EDU 705 Problem Resolution in Educational Organizations (3) A course which focuses on concepts and skills to prepare school administrators and counselors; to anticipate and cope with conflict emerging from interpersonal interactions.

EDU 710 Strategic Planning (3) An intensive study of the techniques and philosophy of long-range planning and its relevance to policy formation and its implementation. Consideration will be given to the development, administration, and maintenance of human resource systems within formal organizations including manpower planning, selection, training, performance appraisal, and monetary considerations.

EDU 725 Educational Facilities Planning (3) Present and future building and equipment needs of school units; planning program through post-occupancy stages; field work as a part of a group school plant study.

EDU 730 Human Resources Administration (3) A comparison of practices with principles governing the satisfaction of school personnel needs, including a study of tenure, salary schedules, unions, supervision, rewards, and other benefits.

EDU 740 Educational Finance and Business Management (3) Examines the fiscal environment of public education to include sources of tax revenue, allocation of resources, responsibilities of school board and administrators, trends in financing public education, and an analysis of selected funding programs. Special attention will be given to fiscal issues confronting administrators of Nebraska schools.

EDU 750 School and Community Relations (3) The systematic exploration of education policy as it has organized, reflected and influenced the lives of children, youth, and families, with particular emphasis on effective communication and practical applications. Roles of educational organizations and institutional change in such social issues as equity and cultural diversity will be studied.

EDU 760 Information Management (3) Basic knowledge and skills necessary to understand and use educationally related technology, including computers, video, information technology, CDs, interactive video, telecommunications, and distance-learning channels. Consideration of special uses for purposes of managing administrative and instructional outcomes.

EDU 786 Advanced Internship in Educational Leadership (3) A one semester internship experience and study in selected school districts under supervision of educational adminis-

tration college faculty members. Content emphasized the activities and topics which are characteristic of central officer operations. Students who have not had prior appropriate experience at the desired administrative level will be required to earn a minimum of 3 credit hours in EDU 689 or 690 Internship. (This course is open only to candidates

for the Educational Specialist degree.)

EDU 790 Special Topics in Educational Administration (3)  
Selected topics related to educational administration. May be repeated twice for the specialist degree program with a different topic.

**Pre-Professional Studies in Engineering  
(Cooperative Programs)  
Physical Sciences & Mathematics Department  
School of Natural & Social Sciences  
Carhart Science Building**

**Program Description:** Pre-engineering studies at Wayne State College are part of cooperative programs with **South Dakota School of Mines and Technology (SDSM&T)** and **South Dakota State University (SDSU)**. A typical program of study consists of four semesters of coursework taken before a student transfers to an engineering school. The coursework involves an inter-disciplinary core of study in the humanities and social sciences, communications, mathematics, physics, chemistry, and the engineering sciences. This core is common of most engineering disciplines and provides a solid foundation that can lead to a career in engineering. Most coursework is delivered by Wayne State College with the possibility of additional courses being delivered by other schools via distance education.

Three options are available for students interested in an engineering degree:

1. Cooperative 2+ programs are available with the area engineering schools such as South Dakota, SDSM&T, SDSU, or the University of Nebraska/Lincoln (UNL). WSC has signed agreements with SDSM&T and SDSU allowing students who successfully complete the two prescribed years of WSC coursework to transfer to the engineering school as a junior to complete his/her engineering program. Possible areas of study include aerospace, agricultural, architectural, bio-systems, chemical, civil, computer, construction, electrical, industrial, materials, mechanical, and metallurgical engineering
2. Students can earn a BS degree in applied mathematics or in one of the other sciences at WSC, and then transfer to an engineering school to pursue either a BS or MS degree. Please refer to the Mathematics, Biology, Chemistry, or Computer Science section of this catalog.
3. Students can pursue a degree in engineering technology at another university, or in industrial technology at WSC. Please refer to the Industrial Technology section of this catalog.

**Objectives:** The fundamental goal of the Pre-Engineering program is to deliver a well-articulated program of study allowing students to transfer to an engineering school. To this end, pre-engineering studies consist of an inter-disciplinary core of course work in the humanities and social sciences, communications, mathematics, physics, chemistry, and applied sciences.

**Example of a possible Program of Study in General Engineering**

Although there is a common core, each area of engineering is enough different, that students will be prescribed individual programs of study. These programs of study are better defined once the student decides on an area of study and the engineering school to which the student wishes to transfer. Please refer to the Program and Advising Guide for Pre-Professional Studies in Engineering available online at [www.wsc.edu/eng](http://www.wsc.edu/eng).

The first semester of each prescribed program is the same.

**First Semester** (For students meeting Calculus prerequisites)

PHY 115 Professionalism in Science.....	2
CHE 106 General Chemistry I.....	4
ENG 102 Composition Skills I.....	3
MAT 140 Calculus I.....	5
Social Science Elective* .....	3

**The remaining semesters** (Course taking is very sequential and students need to check with their advisors to create an individualized program of study)

CHE 107 General Chemistry II.....	4
CNA 100 Principles of Human Communication.....	3
CSC 150 Programming Fundamentals I.....	3
ENGL 2070 Technical Communications** .....	3
MAT 240 Calculus II.....	5
250 Differential Equations .....	3
340 Calculus III.....	4
PHY 214 Applied Statics .....	3
215 Applied Dynamics.....	3
301 & 321 University Physics I & Lab .....	5
(Calc-Based)	
302 & 322 University Physics II & Lab .....	5
(Calc-Based)	
Humanities/Social Science Elective* .....	3
Science Elective*** .....	3

\* Studies in the humanities and social sciences serve not only to meet the objectives of a broad education but also to meet the objectives of the engineering profession. Therefore, studies in the humanities and social sciences must be planned to reflect a rationale or fulfill an objective appropriate to the engineering profession and to fulfill the objectives of WSC and the receiving engineering college. To satisfy this requirement, the courses must provide both breadth and depth, and not be limited to a selection of unrelated introductory courses. Such course work must meet the generally accepted definitions that humanities are the branches of knowledge concerned with man and his culture, while social sciences are the studies of individual relationships in and to society. Examples of qualifying subjects are; philosophy, religion, history, literature, fine arts, sociology, psychology, political science, anthropology, economics, and foreign languages other than English or

the student’s native language. Subjects such as accounting, management, finance, personnel administration, personal economics, and military training do not fulfill the desired objectives of the humanities and social sciences.

\*\* ENGL 2070 Technical Communication is offered through Northeast Community College by distance education.

\*\*\* Electives in science can include upper level courses in biology, chemistry, mathematics, or physics. Refer to the Program and Advising Guide for Pre-Professional Studies in Engineering available online at [www.wsc.edu/eng](http://www.wsc.edu/eng), for guidance.

**English (ENG)  
Language & Literature Department  
School of Arts & Humanities  
Humanities Building**

**Objectives:** In all courses except those concerned with special skills, the English program emphasizes both the form and content of literature to help the student understand not only its aesthetic merit but also its philosophical implications. Courses in English provide the background and skills needed to understand the written word and to use language effectively. The program prepares individuals to evaluate and enjoy what has been written and to enter careers (such as teaching, law, the ministry, business) in which success depends on reading and writing competently.

The BA degree is preferred for English majors and required for the Literature emphasis major.

**Major in English (BA or BS) 30-36 hours**

**Core: 12 hours**

ENG 200 Expository Writing or	
202 Poetry Workshop or	
203 Fiction Workshop.....	3
270 Critical Approaches to Literature .....	3
384 World Literature.....	3
480 Senior Seminar .....	3

**Plus one of the following:**

**Writing emphasis (BA or BS) 18 hours +12 hour core**

ENG 200 Expository Writing (take the 2 courses	
202 Poetry Workshop not taken in core)	
203 Fiction Workshop.....	6
325 Structure of English.....	3
402 Advanced Poetry Workshop or	
403 Advanced Fiction Workshop.....	3

Plus 6 hours of upper level ENG electives ..... 6

**Literature emphasis (BA only) 24 hours + 12 hours core**

ENG 361 American Literature I .....	3
362 American Literature II.....	3
371 British Literature I.....	3
372 British Literature II.....	3
380 Shakespeare .....	3
381 Classical Epic and Drama or	
382 The Bible as Literature .....	3

Plus 6 hours of upper level ENG electives ..... 6  
(upper level foreign language may be substituted).

**English Writing and Literature major (BA or BS) 48 hours**

Students taking this major will complete the required courses for both the English writing and literature options.

**Subject Endorsement in English (BA or BS) 42 hours**

ENG 202 Poetry Workshop .....	3
203 Fiction Workshop.....	3
270 Critical Approaches to Literature .....	3

325 Structure of English.....	3
326 Linguistic Theory and App.....	3
361 American Literature I .....	3
362 American Literature II .....	3
371 British Literature I.....	3
372 British Literature II.....	3
380 Shakespeare .....	3
381 Classical Epic and Drama or	
382 The Bible as Literature .....	3
442 Teaching Writing .....	2
443 Young Adult Literature .....	2
444 Dev Rdg-Middle/Sec Sch.....	2
480 Senior Seminar .....	3

EDU 409 English Content Area Methods and Materials must be taken as part of the professional education requirements, offered second semester only.

Students may graduate with a single subject endorsement in English.

**Field Endorsement in Lang. Arts (BA or BS) 66 hours**

A person with this endorsement may teach and direct curricular and co-curricular activities in composition, language, literature, speech, theatre, mass communication, journalism, and reading in grades 7 through 12. This endorsement requires 66 semester credit hours in journalism, language, literature, mass communication, reading, speech, theatre, and writing. Also listed in Communication Arts section.

Reading

ENG 443 Young Adult Lit .....	2
444 Dev Rdg-Middle/Sec Sch.....	2

Language

ENG 325 Structure of English.....	3
326 Linguistic Theory & App or	
CNA 302 Language & Human Behavior.....	3

Composition

ENG 202 Poetry Workshop or	
203 Fiction Workshop or	
430 Playwriting .....	3
442 Teaching Writing .....	2

Speech

CNA 201 Small Group Communication or	
210 Interpersonal Communication .....	3
240/440 Intercollegiate Forensics.....	3
447 Directing Communication Activities.....	3

Literature

ENG 270 Critical Approaches to Literature .....	3
361 American Literature I .....	3
362 American Literature II .....	3
371 British Literature I.....	3
372 British Literature II.....	3
380 Shakespeare .....	3

381 Classical Epic and Drama <b>or</b>	
382 The Bible as Literature .....	3
480 Senior Seminar <b>or</b>	
CNA 455 Senior Seminar in Comm Arts .....	3

#### Mass Media

CNA 263 Introduction to Mass Comm <b>or</b>	
ENG/CNA 383 Film & Literature.....	3

#### Dramatic Arts

CNA 223 Acting* .....	3
232 Stagecraft* .....	3
432 Play Prod. For Secondary Schools .....	3

\*Participation in college productions also required.

#### Journalism

CNA 280 News Writing.....	3
290 Editing and Copywriting <b>or</b>	
450 Computer Layout & Present.....	3
EDU 409 English Content Area Methods and Materials and	
EDU 409 CNA Content Area Methods and Materials must be	
taken as part of the professional education requirements.	

#### **Minor in English: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s). ENG 102 remains prerequisite to all other ENG courses. At least 50% of the hours in the minor must be at the 300-400 level.

Students must complete:

at least 3 hours from the following: ENG 200, 202, 203, 402, and 403;

at least 9 hours from the following: ENG 250, 270, 361, 362, 371, 372, 380, 381, 382, 383, and 384;

and 9 hours from any ENG course other than ENG 102.

#### **Minor in Editing and Publishing: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s). Complete at least 50% of the hours in the minor at the 300-400 level. Also listed in the Communication Arts section.

BUS 370 Principles of Marketing .....	3
CNA 450 Computer Layout & Presentation <b>or</b>	
ITE 425 Desktop Publishing.....	3
ENG 321 Literary Editing .....	3
Writing courses (at least 3 hrs upper level).....	12
Selected from ENG 200, 202, 203, 402, 403, and	
CNA 262 or 280, 290, 430, 458.	

#### **Undergraduate Endorsement in English as a Second Language: 15 hours**

A special endorsement in addition to a field endorsement or two subject endorsements.

CNA 302 Language and Human Behavior <b>or</b>	
375 Intercultural Communication.....	3
EDU 415 ESL Progs, Curric, Assessment.....	3
416 ESL Methods, Assessment.....	3
417 ESL Practicum K-12.....	3
ENG 325 Structure of English <b>or</b>	
326 Linguistic Theory and App .....	3

Other requirements:

One year of another language or equivalence in a language other than a native language.

#### **Graduate Endorsement in English as a Second Language: 15 hours**

CNA 675 Intercultural Communication.....	3
EDU 515 ESL Progs, Curric, Assessment.....	3
516 ESL Methods, Assessment.....	3
517 ESL Practicum K-12.....	3
ENG 610 Studies in Linguistics .....	3

Note: Supplemental endorsement. This endorsement requires an applicant to have a valid regular teaching certificate. Persons with this endorsement may teach English as a Second Language in grades K-12.

***ENG 102 is a prerequisite to all other English courses except ENG 105, 202, 203, 250, 260, and 280.***

#### **Undergraduate Courses**

ENG 102 Composition Skills (3) ENG 102 provides instruction and practice in a variety of writing, reading, and critical thinking skills, with emphasis on forming experiences, ideas and opinions into a coherent essay. The types of writing assignments vary among instructors, but students can expect to write expressive, analytical, and persuasive essays, some of which may involve the use of secondary sources. This course will hone students' grammatical and punctuation skills, as needed. Grade below "C" receives no credit.

ENG 105 English for Nonnative Speakers (3) This course is designed for students whose first language is not English. The course will help students expand vocabulary and improve reading, writing, listening, and speaking skills. This course does not count for General Education credit.

ENG 200 Expository Writing (3) Prerequisite: ENG 102 or an equivalent course. ENG 200 is intended to refine writing skills learned in earlier composition classes. The course will deal exclusively with expository writing (that is, non-fiction prose essays that explain, analyze, and evaluate ideas) and topics will vary considerably. Class time will be divided between discussing examples of expository writing and working to improve individual writing.

ENG 202 Poetry Workshop (3) Study of and practice in the techniques of poetry writing for the beginning student.

ENG 203 Fiction Workshop (3) Study of and practice in the techniques of writing short fiction.

ENG 250 Topics in Literature (3) Students will read and analyze selected literary works. The course focuses on the relation of literature to place, biography, culture, gender, class, and race. Students will be introduced to the principles of close reading, interpretation, and criticism of literary texts.

ENG 260 Studies in Genre (3) Studies in techniques and forms of one of the major genres of literature, poetry, drama, fiction, and film. Film sections may require a lab. Title will vary with offering.

ENG 270 Critical Approaches to Literature (3) Study of a variety of analytical and interpretive approaches to the study

- of literature in print and non-print media. This course provides an introduction to the English major in which the English program goals are communicated. These program goals will be reinforced in the literature courses required for the major culminating in ENG 480 Senior Seminar. Prerequisite for ENG 333, 361, 362, 365, 371, 372, 378, 380, 381, 382, 383, 386, and 480 - one of three prerequisite choices for ENG 384.
- ENG 280 Themes and Movements in Literature (3) Readings in world literature organized around a specific literary theme or movement. Topic and title vary from offering to offering.
- ENG 321 Literary Editing (3) Editing in a variety of forms, including "little" magazines, chapbooks, reviews and books, with attention to the special and widely diverse demands of literary projects.
- ENG 325 Structure of English (3) Descriptive approach to English Grammar, including pronunciation, word-formation, sentence structure, and semantics/pragmatics. Some attention to dialect differences, social factors in usage, written and spoken style, orthography, and the history of the language.
- ENG 326 Linguistic Theory and Applications (3) Introduction to generative grammar and its application to English and other languages. In addition to basic concepts of phonology and morpho-syntax, the course covers language acquisition, psycholinguistics, neurolinguistics, and other applied linguistic fields.
- ENG 333 American Theatre (3) Prerequisite: ENG 270 or permission of the instructor. Theatre, plays and players from 17th century beginnings to the present. Cross-listed as CNA 333.
- ENG 361 American Literature I (3) Prerequisite: ENG 270 or permission of the instructor. A survey, beginning with pre-contact indigenous literature and concluding with the Naturalist/Symbolist Period.
- ENG 362 American Literature II (3) Prerequisite: ENG 270 or permission of the instructor. A survey, beginning with the Harlem Renaissance and Modernist Period in American Literature and concluding with study of significant contemporary writers.
- ENG 365 Modern American Fiction (3) Prerequisite: ENG 270 or permission of the instructor. Short stories and novels by significant 20th century American writers.
- ENG 371 British Literature I (3) Prerequisite: ENG 270 or permission of the instructor. A survey of British literature, beginning with Beowulf and concluding with works by 18th century writers.
- ENG 372 British Literature II (3) Prerequisite: ENG 270 or permission of the instructor. A survey of British literature, beginning with the Romantic writers and concluding with contemporary writers.
- ENG 378 Topics in Modern British Fiction (3) Prerequisite: ENG 270 or permission of the instructor. Short stories and novels by significant 20th century British writers.
- ENG 380 Shakespeare (3) Prerequisite: ENG 270 or permission of the instructor. Directed reading of Shakespeare's plays and poetry against the background of Renaissance culture. Cross-listed as CNA 380.
- ENG 381 Classical Epic and Drama (3) Prerequisite: ENG 270 or permission of the instructor. A study of the ancient epic and of Greek drama; readings of Homer, Virgil, Aeschylus, Sophocles, Euripides, Aristophanes, and Aristotle.
- ENG 382 The Bible as Literature (3) Prerequisite: ENG 270 or permission of the instructor. Literary analysis of the Hebrew scripture (Old Testament) and of the New Testament.
- ENG 383 Film and Literature (3) Prerequisite: ENG 270 or permission of the instructor. An on-going series of courses concerned with the relationship (thematic, generic, social-historical, etc.) between cinema and literature. CNA/ENG/FRE 383 repeatable once for credit. This course is cross-listed as CNA 383 or FRE 383.
- ENG 384 World Literature (3) Prerequisites: ENG 250, ENG 270 or CNA 101, plus 60 hours completed. World Literature examines works from non-Western cultures and contrasts them with familiar or new works from Western culture. The approach of the course will vary (from instructor to instructor). The course may treat a common theme across various cultures, focus on a particular time period, culture, genre (such as the epic), or contrast contemporary novels from two countries, such as the United States and Mexico.
- ENG 386 Modern World Drama (3) Prerequisite: ENG 270 or permission of the instructor. Reading of representative global dramatists in translations from Ibsen to the Post-Moderns. Cross-listed as CNA 386.
- ENG 402 Advanced Poetry Workshop (3) Prerequisite: ENG 202 or permission of instructor. Continued study of and practice in the techniques of poetry writing.
- ENG 403 Advanced Fiction Workshop (3) Prerequisite: ENG 203 or permission of instructor. Continued study of and practice in the writing of short fiction.
- ENG 415/515 Neihardt Seminar (3) An intensive study of selected authors, genres, and approaches to writing and reading. The course is usually taught by a visiting writer/scholar. May be repeated.

ENG 421 Literary Publishing (3) Prerequisites: ENG 321. Focus on the selection, design, and execution of literary publication; publishing ethics are also addressed.

ENG 430 Playwriting (3) Theory and practice of writing one-act and full-length plays. Cross-listed as CNA 430.

ENG 442/542 Teaching Writing (2) A survey of the major theories and issues surrounding the teaching of writing in the pre-college classroom. Topics include classroom strategies, traditional grammar and its alternatives, grading and testing, and individualizing the writing curriculum. After an initial survey of current literature on these topics, students will be involved in designing their own writing curricula, micro-teaching, and adapting materials to the needs of the student population they expect to encounter in their professional careers.

ENG 443/543 Young Adult Literature (2) Study of popular and traditional literature appropriate for adolescent readers, and of techniques and strategies for teaching this literature.

ENG 444/544 Developmental Reading in Middle and Secondary Schools (2) Survey of current research on the reading processes of middle and secondary school student: techniques for assessing, developing, and improving students' reading strategies, with emphasis on such topics as vocabulary development, comprehension, study skills, and reading in the content areas. This course meets the middle and secondary school reading requirement (reading in the content areas).

ENG 480 Senior Seminar (3) Prerequisite: ENG 270. A study of the techniques of literary research, critical evaluation, and analysis of literary texts, as well as historical and thematic problems facing the literary scholar.

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

ENG 501 Writer's Workshop (3) Prerequisites: ENG 402 and 403 or graduate standing. The course is intended for experienced creative writers working in poetry, fiction, creative non-fiction or other genres who wish to further practice their craft. May be repeated.

ENG 515 Neihardt Seminar (3) See ENG 415

ENG 522 History of the English Language (3) The development of modern English from its Anglo-Saxon sources through American English, with emphasis on phonetics and the history of grammar, syntax, and vocabulary. Illustrative reading in Anglo-Saxon, Middle English, and the principal modern dialects.

ENG 527 Academic and Professional Writing (3) This course examines the theory and practice of writing for academic and professional fields, including differences in diction, style, organization, and documentations among different disciplines and professions. Course materials and assignments are tailored to each student's needs.

ENG 542 Teaching Writing (2) See ENG 442

ENG 543 Young Adult Literature (2) See ENG 443

ENG 544 Developmental Reading in Middle and Secondary Schools (2) See ENG 444

ENG 571 Modern European Fiction (3) Representative continental fiction of the late nineteenth and twentieth centuries.

ENG 575 The English Novel (3) Representative novels of the eighteenth and nineteenth centuries; the historical development of the novel.

ENG 576 Twentieth Century Poetry (3) British and American poetry of our time, including the works of Yeats, Frost, Eliot, Auden, and others.

ENG 578 Seminar in Drama (3) The study of representative British and American drama from 1892 to the present. Some major European dramatists may be included. Topic and title will vary from offering to offering. Cross-listed with CNA 578.

ENG 600 Readings: Literary History (1) Guided readings in British and American literature and its history based upon the graduate reading list. Offered every term. May be repeated to a maximum of three hours.

ENG 610 Studies in Linguistics (3) Topics in the study of contemporary linguistic theory and its applications to the understanding of literature and language behavior.

ENG 621 Seminar: Major Authors (3) Intensive study of one or two major writers. Topic and title vary from offering to offering. May be repeated.

ENG 632 Seminar: English Literature to 1700 (3) Topics in English literature through the Restoration. Topic and title vary from offering to offering. May be repeated.

ENG 633 Seminar: English Literature from 1700-1900 (3) Topics in English literature of the Augustan, Romantic, and Victorian periods. Topic and title vary from offering to offering. May be repeated.

ENG 644 Seminar in American Literature (3) Topics in American literature from the beginning to 1920. Topic and title vary from offering to offering. May be repeated.

ENG 655 Modern British and American Literature (3) Studies in the Anglo American literary culture of the twentieth century. Topic and title vary from offering to offering. May be repeated.

ENG 682 Topics in Literary Criticism (3) Close study of a major problem in the criticism of literature. Problem and title vary from offering to offering. May be repeated.

**Family and Consumer Sciences (FCS)  
Technology & Applied Science Department  
School of Business & Technology  
Benthack Building**

**Objectives:** The offerings in Family and Consumer Sciences are provided for those students who are preparing for careers in family and consumer sciences or related fields. The courses are beneficial to students both personally and professionally who find family and consumer sciences a means to the enrichment of living.

Students planning to teach family and consumer sciences subjects in secondary schools should work toward the major in family and consumer sciences with the field endorsement in family and consumer sciences. No other endorsement is required.

Students planning careers in professional areas of family and consumer sciences other than teaching such as business, extension or social services, which require teaching-related skills, should work toward the major in family and consumer sciences with the field endorsement in family and consumer sciences, and take appropriate electives selected by advisement.

Students planning careers in fashion merchandising, interior design, early childhood, foods and nutrition, or other related professions should work toward a bachelor's degree with a concentration in the appropriate area. Students planning a career in early childhood should pursue the major in that area. Students needing a background of concentrated study for related professions should work toward a major with a family and consumer sciences concentration. A minor in family life studies is also offered to support other professional career objectives and to broaden the student's background relative to a specific career objective.

**Major in Family and Consumer Sciences  
(BA or BS) 51-56 hours**

All Family and Consumer Sciences majors will take FCS 207 Nutrition to meet the Block 2 Wellness General Education requirement.

**Family and Consumer Sciences Core: 18 hours**

FCS	103 Clothing Construction <b>or</b>	
	302 Textiles.....	3
	108 Intro to Family & Consumer Sciences.....	1
	110 Family & Personal Relationships.....	3
	305 Housing Development & Design.....	3
	313 Techniques in Prof. Presentation.....	3
	315 Consumer Economics.....	3
	410 Professional Development in FCS.....	2

**Field Endorsement in Family and Consumer Sciences Concentration (BA or BS) 33 hours + 18 hour core**

<i>(Requires FCS 103 Clothing Construction)</i>		
FCS	104 Principles of Food Preparation.....	3
	205 Meal Management.....	3
	302 Textiles.....	3
	306 Family Resource Management.....	3
	308 Household Technology.....	3
	316 Guiding the Young Child.....	3
	403 Fashion Analysis.....	3
CED	417 Principles of Career Education <b>or</b>	
	423 Coordinating Techniques.....	3
	463 Intro to Voc Special Needs.....	3

FCS elective by advisement.....	6
Required: Secondary Professional Education Courses (34 hours)	

**Supplemental Endorsement to Teach Family and Consumer Sciences Related Occupations (BA or BS) 51-54 hours plus work experience.**

Students who wish to obtain an endorsement for teaching family and consumer sciences in occupational programs that relate to family and consumer sciences subject matter must fulfill all the requirements for the BA or BS degree with an endorsement to teach family and consumer sciences. In addition, the student must complete the work experience as set forth in the State Plan for Family and Consumer Sciences.

CED	423 Coordinating Techniques.....	3
Plus one of the following.		

- A. 1000 verified hours of paid, volunteer, or internship experience related to Family and Consumer Sciences.  
Note: Not more than 50% of the 1000 hours can be volunteer. **OR**
- B. At least 300 hours of supervised work experience under the direction of the college or university recommending the endorsement.

Persons with this endorsement may teach Family and Consumer Science education in grades 9 through 12 and will also be endorsed in Cooperative Education-Diversified Occupations.

**Family and Consumer Sciences Concentration: 36 hours + 18 hour core**

<i>(Requires FCS 103 Clothing Construction)</i>		
FCS	104 Principles of Food Preparation.....	3
	205 Meal Management.....	3
	302 Textiles.....	3
	306 Family Resource Management.....	3
	308 Household Technology.....	3
	316 Guiding the Young Child.....	3
	403 Fashion Analysis.....	3
	416 FCS Practicum.....	3

Twelve hours selected from the following:.....12

FCS	106 Introduction to Fashion Industry (2)	
	202 Clothing Design (3)	
	303 Fashion Retailing (3)	
	312 Historic Costume (3)	
	317 Nutrition Through the Life Cycle (3)	
	318 Soft Furnishings (2)	
	322 International Foods and Cultures (3)	
	407 Nutritional Counseling & Assessment (3)	

**Fashion Merchandising Concentration: 37 hours + 18 hours core**

<i>(Requires FCS 103 Clothing Construction)</i>		
FCS	106 Introduction to Fashion Industry.....	2
	202 Clothing Design.....	3
	302 Textiles.....	3
	303 Fashion Retailing.....	3
	312 Historic Costume.....	3
	318 Soft Furnishings.....	2
	403 Fashion Analysis.....	3
BUS	142 Survey of Accounting.....	3
	222 Business Law I.....	3
	360 Management Theory and Practice.....	3

367 Foundations of Human Resource Mgmt.....3  
 370 Principles of Marketing .....3  
 Three hours of FCS electives by advisement.....3

Recommended course:

FCS 497 FCS Internship

Business Administration Minor

**Foods and Nutrition Concentration: 33-36 hours + 18 hour core**

FCS 104 Principles of Food Preparation .....3  
 205 Meal Management .....3  
 306 Family Resource Management .....3  
 308 Household Technology .....3  
 317 Nutrition Through the Life Cycle .....3  
 322 International Foods and Cultures.....3  
 340 Community Nutrition .....3  
 407 Nutritional Counseling & Assessment.....3  
 416 FCS Practicum .....3  
 Electives selected from the following: ..... 6-9

BUS 222 Business Law I (3)  
 240 Accounting I (3)  
 360 Management Theory & Practice (3)  
 367 Foundtns of Human Resource Mgmt (3)  
 370 Principles of Marketing (3)

CHE 106 General Chemistry I (4)  
 107 General Chemistry II (4)  
 208 Intro Organic Chemistry (4)

PED 207 Athletic Performance & Nutrition (3)  
 310 Leadership Develop in Nutrition & Stress Mgmt (3)

**Interior Design Concentration: 38 hours + 18 hour core**  
 (Requires FCS 302 Textiles)

FCS 240 Design and Interior Environments.....3  
 308 Household Technology .....3  
 318 Soft Furnishings.....2  
 320 Techniques of Interior Design .....3  
 408 Applied Concepts of Interior Design .....3

ART 344 Art History I **or**  
 345 Art History II **or**  
 346 Art History III **or**  
 440 Multicultural Arts .....3

BUS 142 Survey of Accounting .....3  
 222 Business Law I **or**  
 370 Principles of Marketing .....3  
 327 Principles of Real Estate **or**  
 360 Management Theory & Practice .....3

ITE 109 Drafting & Design .....3  
 211 Architectural/Industrial Finishing.....3  
 214 Residential Drawing .....3  
 314 Architectural Design.....3

Recommended:

FCS 497 FCS Internship

Business Administration Minor or Art Minor

**Major in Early Childhood (BA or BS) 57 hours**

480 hours of experience also required for CDA, see the department chair. (Not for certification - See Early Childhood Unified Endorsement for certification.)

FCS 207 must be taken to meet the Block 2 Wellness requirement in General Education.

FCS 104 Principles of Food Preparation ..... 3

108 Intro to Family & Consumer Science ..... 1  
 110 Family & Personal Relationships ..... 3  
 120 Introduction to Early Childhood Ed ..... 2  
 205 Meal Management ..... 3  
 220 Infancy and Toddlers ..... 3  
 230 The Pre-School Age Child ..... 3  
 306 Family Resource Management ..... 3  
 313 Techniques in Professnl Presentn ..... 3  
 316 Guiding the Young Child ..... 3  
 325 Health & Safety for the Young Child ..... 3  
 410 Professional Development in FCS..... 2  
 416 FCS Practicum ..... 3  
 430 Org & Ad of Early Childhood Ed Pr ..... 3  
 EDU 216 Children’s Literature ..... 2  
 217 Diverse Family Systems ..... 3  
 230 Integrating Creative Arts for Children ..... 3  
 303 Developmentally Appropriate Practices for Young Children ..... 3  
 SPD 151 Introduction to Special Education ..... 3  
 260 Chars & Meth: Birth thru age 4 ..... 2  
 CED 463 Intro to Vocational Special Needs..... 3

Recommended courses:

FCS 315 Consumer Economics (3)

FCS 317 Nutrition Through the Life Cycle (3)

Note: With this major student will need an additional 7 hours of upper division courses by advisement for graduation.

**Minor in Family Life Studies: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student’s major(s) and minor(s). Complete at least 50% of the hours at the 300-400 level.

FCS 110 Family and Personal Relationships.....3  
 306 Family Resource Management .....3  
 FCS Electives by advisement.....15  
 (at least 8 hours must be at the 300-400 level)

**Minor in Foods and Nutrition: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student’s major(s) and minor(s). Complete at least 50% of the hours at the 300-400 level.

FCS 207 Nutrition **or**  
 PED 207 Athletic Performance and Nutrition.....3  
 FCS 317 Nutrition Through the Life Cycle .....3  
 340 Community Nutrition .....3

Electives selected from the following..... 12

FCS 104 Principles of Food Preparation (3)  
 205 Meal Management (3)  
 308 Household Technology (3)  
 322 International Foods and Cultures (3)  
 407 Nutritional Counseling and Assessment (3)  
 416 FCS Practicum (1-3)

**Undergraduate Courses**

FCS 103 Clothing Construction (3) Evaluation of clothing construction for the consumer relative to sewing projects and ready-to-wear. Components of quality workmanship, apparel fibers/fabrics, and cost factors are emphasized through construction projects. (Lecture and lab combined)

FCS 104 Principles of Food Preparation (3) The nutritional

- value of foods and the relation of food to health, fundamental principles of cookery applied to foods commonly used in the home.
- FCS 106 Introduction to Fashion Industry (2) A study of the fashion industry from concept to consumer, including career opportunities, the language of the industry, and its place in a global economy.
- FCS 108 Introduction to Family and Consumer Sciences (1) The history, growth and development of Family and Consumer Sciences. Career exploration of the opportunities for careers open to Family and Consumer Sciences graduates. Freshmen, sophomores, undeclared majors or by permission of instructor.
- FCS 110 Family and Personal Relationships (3) A study of relationships throughout the life cycle. Application of the critical thinking process to the identification of values, the formulation of goals, and the decision making model in order to improve the quality of life for individuals and families.
- FCS 120 Introduction to Early Childhood Education (2) A study of types of early childhood programs. Objectives and philosophies of various early childhood programs and curricula from both historical perspectives and current practices. Legislation and public policies, partnerships with family and community, and working with children with a range of abilities will be addressed. Infant/toddler and pre-school observation hours are required.
- FCS 202 Clothing Design (3) Prerequisites: FCS 103 or permission of instructor. Styles of fashion relative to garment components and industry trends are studied. Principles and elements of design will be applied to pattern drafting and garment construction. (Lecture and lab combined)
- FCS 205 Meal Management (3) Prerequisite: FCS 104 or approval of instructor. Application of concepts in menu planning, preparation, and time management principles related to budgeting and purchasing of food. (Lecture and lab combined)
- FCS 207 Nutrition (3) A study of the basic nutrients and their relationship to physical, mental, and emotional health. Nutritional requirements and dietary planning for all age groups. The use of the computer for dietary analysis, evaluation of the analysis, and application to daily eating habits.
- FCS 220 Infancy and Toddlers (3) Prerequisite: FCS 120 or permission of instructor. A study of human growth and behavior from conception through two years of age. Curriculum and assessment, language development, appropriate literature, play and discovery, children with a range of abilities, family and community partnerships will be addressed. Early childhood center observation is required.
- FCS 230 The Pre-School Age Child (3 through 5 years) (3) Prerequisite: FCS 120 or permission of instructor. A study of human growth and behavior from 3 years of age through 5 years of age. Curriculum and assessment, emergent literacy, appropriate literature, play and discovery, children with a range of abilities, and family and community partnerships will be addressed. Early childhood center and pre-school observations are required.
- FCS 240 Design and Interior Environments (3) The study and discussion of concepts, issues, and resolutions in which research of human behavior is influenced by built environment. Use of communication skills, problem solving, and media to design interior environments. An exploration of sustainable design and its effects on interior design, architecture, city planning, and landscape design. (Lecture and lab combined)
- FCS 302 Textiles (3) Serviceability concepts, durability, comfort, care, and appearance as related to fibers, yarns, fabric construction, finishes, and designs. Consumer oriented approach.
- FCS 303 Fashion Retailing (3) A study of the retail distribution of fashion. Buying and merchandising concepts will be explored through computer simulation.
- FCS 305 Housing Development and Design (3) A study of architectural housing styles, future trends in housing, housing selection as it concerns the family during stages of the family life cycle. Floor plans, furniture arrangement, elements and principles of design, color theory, and their application to housing will be covered. (Lecture and lab combined)
- FCS 306 Family Resource Management (3) Analysis of the management process and socio-economic influences as related to the utilization of resources to meet individual and family goals. Special management situation considered.
- FCS 308 Household Technology (3) A study of the construction, selection, use, and care of appliances and other technology used in the home; the basic principles in the use of gas and electricity in the home; safety and energy conservation of household technology.
- FCS 312 Historic Costume (3) A survey of western style clothing and accessories from the ancient Egyptian times to the present.
- FCS 313 Techniques in Professional Presentation (3) A study of the fundamentals of: verbal and nonverbal presentations; media techniques for presenting oral and written information; visual aids and their usage; and display techniques to enable the student to become more skilled at giving professional presentations.
- FCS 315 Consumer Economics (3) Development of responsible consumerism through value clarification, goal formulation, decision making, and effective use of resources.
- FCS 316 Guiding the Young Child (3) Prerequisites: FCS 230 and Junior standing or permission of instructor. The role of

teachers, child care providers and parents in providing an environment that is safe and developmentally appropriate for the development of the child's potential. The pre-school lab provides opportunity for observing and working with three, four and five year olds. (Lecture and lab combined)

FCS 317 Nutrition Through the Life Cycle (3) Knowledge and understanding of nutritional needs and recommendations throughout the life cycle from prenatal nutrition through adulthood and special needs of the elderly. Special emphasis on maternal health and the development of a healthy child.

FCS 318 Soft Furnishings (2) The application of elements and principles of design in the use of soft furnishings to enhance the decor of a living space. Measurements and calculations, fabric characteristics, construction techniques, and placement/installation of soft furnishings will be addressed. (Lecture and lab combined)

FCS 320 Techniques of Interior Design (3) Study of design process as it applies to interior spaces. Emphasis on problem solving and communication skills in space planning and design of residential environments. Careers in interior design will be explored. (Lecture and lab combined)

FCS 322 International Foods and Cultures (3) An understanding of the influences of cultures on food and nutrition practices and beliefs. (Lecture and lab combined)

FCS 325 Health and Safety for the Young Child (3) A course designed to assist early childhood and elementary educators by providing them with knowledge and skills to address the health, safety, and physical needs of young children (0-8 years). CPR certification, partnerships with family members and other professionals, and adaptive care for special needs will be addressed.

FCS 340 Community Nutrition (3) Prerequisite: FCS 207 or approval of instructor. This course will enable the student to attain a better understanding of the role of the community nutritionist in providing community nutrition program services and the availability of nutrition programs in the community. Nutrition education techniques for selected groups for health promotion, health maintenance, and rehabilitation will be utilized.

FCS 403 Fashion Analysis (3) Prerequisites: FCS 103 or permission of instructor. Fashion and figure analysis, standards of fit, and alteration potential of ready-to-wear will be explored. Alteration problems will be studied in half-scale and applied to full scale designer garments. (Lecture and lab combined)

FCS 407 Nutritional Counseling and Assessment (3) Prerequisite: FCS 207 or PED 207. Fundamental knowledge and skills in nutritional counseling, including theory and strategies of behavior change and principles of nutritional and dietary assessment.

FCS 408 Applied Concepts of Interior Design (3) Prerequisite: FCS 320 or permission of instructor. Advanced study of the elements and principles of design, color, period decoration and furniture, commercial and retail design, pictorial drawings, materials and accessories. Client projects, sample boards, and client presentations will be emphasized. Professional practices of design will be explored. (Lecture and lab combined)

FCS 410 Professional Development in Family and Consumer Sciences (2) Prerequisite: FCS 313. Course to enhance the professional development of FCS majors. Topics to include networking, job search skills, portfolio development, professional associations, and entrepreneurship.

FCS 416 Family and Consumer Sciences Practicum (1-3) Prerequisite: Department chair approval. Practical experience in the classroom or other professional settings. Experiences can include laboratory assistance, organization, presentation and evaluation of activity units in family and consumer sciences. May be taken twice.

FCS 430/530 Organization and Administration of Early Childhood Education Programs (3) Prerequisites: FCS 120, 220, 230. A study of program development and management, safe and nurturing environments, and principles for successful operation of early childhood education programs and centers. Personnel management, public and private funding, legislation and public policy trends, environmental safety, children with a range of abilities, and family and community partnerships will be addressed. Graduate students will complete a project relative to the management of an early childhood program.

**Eligible seniors may enroll in 500 level graduate courses.**  
**Graduate Courses**

FCS 505 Special Topics in Family and Consumer Sciences (3) Each time this course is offered the focus will be on topics related to one of the areas of family and consumer sciences. The areas to be rotated include housing, textiles and apparel, family relations, foods and nutrition, resource management, and other topics as applicable. The course may be repeated with a change in topic three (3) times for a total of nine (9) hours.

FCS 520 Infants/Toddlers Through Primary Children Birth-8 (4) Study of the processes of human growth and development from birth through age 8 as determined by heredity, society, and human interaction. The course will examine physical, social, emotional, cognitive (intellectual), language (communication), and creative development.

FCS 530 Organization and Administration of Early Childhood Education Programs (3) See FCS 430

FCS 610 Instructional Techniques and Curriculum Development in FCS (3) This course will examine the current literature on instructional techniques and curriculum development; compare and contrast available curriculums;

adapt and apply curriculums to meet needs of family and consumer sciences.

FCS 615 Current Trends & Issues in Family and Consumer Sciences (3) This course explores current trends and issues that affect the field of family and consumer sciences.

FCS 616 Early Childhood Practicum/Applied Research (3-

5) Prerequisites: FCS 520, 530. Study of children birth through age 5 by observation and interaction in an organized environment such as a child development center or preschool program. Thirty (30) hours of interaction and observation are required for each credit hour. A child study, case study, anecdotal record or other research project resulting from the interaction/observation will also be required.

**General Studies (GST)**

A total of 5 credits from GST courses may be applied as electives to a degree program.

GST 102 Beginning Algebra (2) Operations with real numbers, solutions and graphs of linear equations, problem solving strategies, and algebraic manipulations are included. The course also reinforces basic mathematical skills and their everyday applications. Intended for students with inadequate math background, high level of math anxiety, or out of a school environment for some years. It is also useful for Pre-Professional Skills Test (PPST) preparation. This course will not fulfill the math General Education requirement.

GST 110 Succeeding in College (2) Freshmen, Sophomores, & Transfers A course designed to assist students in

improving learning efficiency and effectiveness for all facets of college. Learning styles and personality assessments are used to explain how each student learns and interacts. Not a required course but highly recommended for all new WSC students.

GST 112 Speed Reading (1) Emphasis is on learning techniques to improve reading speed and comprehension and applying them to various college courses. An individually paced course for all levels of readers. Its purpose is to help all college students develop their reading skills.

GST 114 Vocabulary Development (1) This course concentrates on the expansion of college level vocabulary skills and enrichment for more confident reading, writing and speaking.

**Geography (GEO)**

**History, Politics & Geography Department  
School of Natural & Social Sciences  
Connell Hall**

**Objectives:** The Geography program is designed to acquaint the student with the natural and human systems of the earth; its physical make-up; its place in the universe its political; economic and cultural development; and the ways in which all of these interconnect.

**Geography Major (BA or BS) 36 hours**

EAS	110 Introduction to Meteorology.....	4
	120 Introduction to Geology .....	4
	310 Weather Systems of North America .....	4
GEO	120 World Regional Geography .....	3
	315 World Economic Geography .....	3
	430 Geographic Information Systems <b>or</b>	
	435 Computer Mapping.....	3
Earth Science and/or Geography electives .....		15
(8 of the 15 hours must be upper level courses)		

**Subject Endorsement in Geography (BA or BS) 38 hours**

(C or above grade required for all courses in the Geography Endorsement) of which up to 13 hours may be used to fulfill General Education requirements.

EAS	110 Introduction to Meteorology.....	4
	120 Introduction to Geology .....	4
GEO	120 World Regional Geography .....	3
	300 Human Geography.....	3
	305 Political Geography .....	3
	315 World Economic Geography .....	3
Geography Electives .....		12
Social Science Electives (other than GEO) .....		6

(10 of the 18 elective hours must be upper level courses). A second subject endorsement is also required.

EDU 409 Social Science Content Area Methods and Materials must be taken as part of the professional education requirements

**Minor in Geography: 19 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

EAS	110 Introduction to Meteorology.....	4
GEO	120 World Regional Geography .....	3
	315 World Economic Geography .....	3
	Geography Electives (Upper level) .....	9

**Undergraduate Courses**

GEO 120 World Regional Geography (3) A global survey of the geographic interrelationships between people and their environments.

GEO 300 Human Geography (3) Application of geographic principles to examine the social, economic and political activities of human cultures. Emphasis is on the concepts of culture, culture areas, migration, diffusion, social space, territoriality, environmental perception and cultural landscape.

GEO 305 Political Geography (3) A study of geographic factors as they pertain to national and international political problems.

GEO 315 World Economic Geography (3) A study of resource use, locational choices and regional specialization in the global economy.

GEO 320 Urban Geography (3) A theoretical and comparative study of the city stressing historical development, internal land use, external relations, and demographic and ecological consequences of urbanization.

GEO 325 Geography of Recreation, Tourism and Sport (3) A survey of the applied and academic aspects of indoor/outdoor recreation, international/regional tourism, and professional/amateur sports. The course will examine the distribution of legalized gaming, ecotourism and leisure travel as well as the preservation and study of cultural and natural heritage.

GEO 340 Geography of the US and Canada (3) A regional analysis of the United States and Canada in terms of economic activities and the physical environment. Special emphasis is on the historical development of the US and Canadian landscapes.

GEO 350 Geography of Europe (3) A regional analysis of Europe in terms of political organization, economic activities, and the physical environment.

GEO 360 Geography of Russia (3) A regional survey of the territory of Russia and the newly independent states that emerged from the breakup of the USSR. The focus of the course is on human, physical, and historical geography of the 15 countries in the region, which includes parts of Eastern Europe and Central Asia. Issues to be addressed include recent efforts toward economic restructuring, relations among the former republics and nationalities, and current events/problems.

GEO 370 Geography of Latin America (3) A regional survey of Latin America in terms of economic activities and the physical environment. Special emphasis is on the historical development of the Latin American landscapes.

GEO 380 Geography of Asia (3) A regional analysis of South, Southeast, and East Asia in terms of the people, economic activities, and physical environment.

GEO 410/510 Hazards and Disasters (3) This course involves the study of catastrophic natural phenomena such as volcanic activity, earthquakes, floods, landslides, hurricanes, and tornadoes. We will examine these events on a world scale, always trying to understand where they occur and why they occur in those places. Emphasis is given to understanding the physical processes involved along with means of predicting, preventing, and minimizing the impact on humans.

GEO 420/520 Terrorism and War (3) An analysis of the players, traditions, regional interactions, and geopolitical motivations of world regions from where terrorism emanates, upon whom terrorists acts are perpetrated, and within which war is the prevailing form of political expression.

GEO 430/530 Geographic Information Systems (3) This course provides a basic introduction to the theory behind and hands-on usage of a Geographic Information System. An ability to manipulate and visualize data graphically is becoming ever more important in today's technological workplace. A Geographic Information System is a computing tool that allows the user to visualize information in ways that reveal relationships, patterns, and trends not visible using other presentation methods.

GEO 435/535 Computer Mapping (3) An introduction to basic concepts and techniques for the creating of maps via computers. Emphasis will be on interpretation of physical and cultural information from maps, and on understanding map layout and design. Hands on use of a computer mapping program will allow students to create their own maps in lab.

GEO 444 Topics in Geography (3) Current or special issues in Geography will be examined. The course offers students the opportunity to discuss relevant issues facing society. The course may be repeated for credit, by advisement, when no duplication of topics exists.

GEO 445/545 Geography of Nebraska (3) A regional analysis of the Great Plains/Midwest region with a focus upon Nebraska, Iowa and South Dakota. The physical and cultural aspects of the region are examined with a focus upon the changing perceptions and utilization's of the environment and the evolution of the contemporary landscape.

**Eligible seniors may enroll in 500 level graduate courses.  
Graduate Courses**

GEO 500 Topics in Geography (3) Reading and discussion of selected topic in geography. Topic and title will vary. May be repeated if topic and title are different.

GEO 510 Hazards and Disasters (3) See GEO 410

GEO 520 Terrorism and War (3) See GEO 420

GEO 530 Geographic Info Systems (3) See GEO 430

GEO 535 Computer Mapping (3) See GEO 435

GEO 545 Geography of Nebraska (3) See GEO 445

**Cross Listed Courses:**

Three hours from the following courses may be used as electives in geography in the major, minor, and endorsement programs:

POS 340 International Relations

SOC 465 Peoples & Cultures of the Middle East

**History (HIS)  
History, Politics & Geography Department  
School of Natural & Social Sciences  
Connell Hall**

**Objectives:** History offers courses designed to help the student understand something of human nature through an understanding of the past.

**Subject Endorsement in History (BA or BS) 42 hours**

The endorsement includes 15 hours of Block 3 General Education history and social sciences requirements.

No course with a grade below “C” will be accepted as part of the minimum requirements for the endorsement. HIS 120 and HIS 150 do not count in the History Subject Endorsement.

GEO	120 World Regional Geography .....	3
HIS	170 World Civilizations I.....	3
	171 World Civilizations II .....	3
	180 The American Experience I .....	3
	181 The American Experience II.....	3
U.S.	Upper level History.....	6
Non-U.S.	Upper level History .....	6
History	Electives.....	9
POS	100 American National Government.....	3
SSC	490 Social Sciences Research Seminar .....	3

(or appropriate Honors Course 395 or 499)

EDU 409 Social Sciences Content Area Methods and Materials must be taken as part of the professional education requirements.

**Major in History (BA or BS) 36 hours**

The Major includes 6 hours of Block 3 General Education History requirements.

HIS	170 World Civilizations I.....	3
	171 World Civilizations II .....	3
	180 The American Experience I .....	3
	181 The American Experience II.....	3
U.S.	Upper level History.....	6
Non U.S.	Upper level History.....	6
History	Electives.....	9
SSC	490 Social Sciences Research Seminar .....	3

(or appropriate Honors Course 395 or 499) .....

**Minor in History: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student’s major(s) and minor(s).

21 hours of History	electives .....	21
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A minimum of 12 of the 21 hours must be upper level courses.

**Undergraduate Courses**

HIS 120 World History (3) An examination of the major cultural traditions, trends, and events that have shaped the modern world, from the beginnings of civilization to the present. This course does not count in the major in History, subject endorsement in History, or field endorsement in Social Sciences.

HIS 150 History of the United States (3) A selective examination of the major trends, events, and issues that have shaped the development of the United States, from pre-colonial times to the present. This course does not

count in the major in History, subject endorsement in History, or field endorsement in Social Sciences.

HIS 170 World Civilizations I (3) This course surveys the world’s cultures and their interactions from the rise of civilization through the age of European expansion. Required for majors and teacher education candidates seeking a Social Sciences field endorsement or a history subject endorsement.

HIS 171 World Civilizations II (3) This course surveys the world’s cultures from the age of the European voyages of discovery to the twentieth century. Required for majors and teacher education candidates seeking a Social Sciences field endorsement or a history subject endorsement.

HIS 180 The American Experience I (3) A comprehensive survey of American History from the colonial era to the late nineteenth century. Required for majors and teacher education candidates seeking a Social Sciences field endorsement or a history subject endorsement.

HIS 181 The American Experience II (3) A comprehensive survey of American History from the late nineteenth century to the present. Required for majors and teacher education candidates seeking a Social Sciences field endorsement or a history subject endorsement.

HIS 200 History of Asia (3) This course will focus on the political, cultural, and intellectual development of China, India, and Japan in an attempt to develop an understanding of and appreciation for the diverse contributions each has made to the modern world.

HIS 220 Slavery and Anti-Slavery in the Western Tradition (4) Prerequisites: Honor student status or by permission. This course is a survey of the role of slavery in Western society from the earliest civilizations in Mesopotamia and Egypt through nineteenth-century Europe and America. It introduces students to the debate over the impact of slavery on both slaveholder and slave, and the origins of both racism and abolitionism. Although the course focuses on the Western experience, there will be numerous cross-cultural references to African, Asian, and Islamic societies. Recurring themes are: rights and restrictions; conditions of work; resistance to slavery; slave society; emancipation; justifications and denunciations of slaveholding; slavery and racism; and gender issues in the history of slavery and abolitionism. Meets the HIS 120 & 150 General Education requirement.

HIS 300 The Ancient World (3) A survey of the ancient Near East, Greece, and Rome, from the Neolithic Revolution to the decline of the Roman Empire in the West, circa 10,000 B.C. to A.D. 400. The emphasis is on cross-cultural borrowings and the diverse patterns of social and political organization.

- HIS 305 Medieval Europe (3) A survey of changing values and institutions in Europe, from the decline of the Western Roman Empire to the 14th century, circa 400-1400.
- HIS 310 The Renaissance and Reformation (3) A survey of the fundamental changes in European society that resulted from the Renaissance and Reformation, covering the period from 1400 to 1650.
- HIS 315 Europe, 1600-1815 (3) A survey of Europe from the end of the Religious Wars to the French Revolution and Napoleon. Focuses on French society under the Old Regime, changes in the European balance of power, and the origins of the French Revolution.
- HIS 317 Nineteenth Century Europe (3) A survey of Europe from the post-Napoleonic era to the eve of World War I, studying such major movements and events as the rise of industrial civilization and the unification of Germany and Italy.
- HIS 320 The Twentieth Century (3) A survey of the major events in world history during the twentieth century.
- HIS 350 Nebraska History (3) A history of Nebraska focusing on principal people, events, and themes in the state's history.
- HIS 360 Colonial and Revolutionary America (3) Traces the growth of America from the first settlements to the establishment of the Constitution in 1789.
- HIS 370 Early National America (3) Traces American history from the establishment of the Constitution in 1789 to the end of the War of 1812. Focuses on the contributions of the Founding Fathers -Washington, Hamilton, Jefferson, and Madison - and on the impact of the French Revolutionary and Napoleonic Wars.
- HIS 380 America, Civil War Era (3) A detailed survey of the political, legal, economic, and social issues of the Antebellum period, Civil War, the era of Reconstruction, the expansion of the West, and the growth of industrialism.
- HIS 385 America, 1941 to the Present (3) A survey of America in the latter half of this century. Topics include World War II, Industrialism, the Cold War, and changes in American domestic and foreign policies.
- HIS 420 Society and Gender in the Western Tradition (3)  
This course provides a broad historical framework for understanding current controversies about gender roles in society. It introduces students to the debate over the origins of patriarchy, the legacy of attitudes from both Greco-Roman civilization and Judaeo-Christian tradition, and the impact of gender and class identity on actual life experience from medieval to modern times. This is a reading and discussion course. Recurring themes are sexuality, marriage, family relations, patterns of work and religious experience, and opportunities for education and self-expression.
- HIS 444 Topics in History (3) Current or special issues in History will be examined. The course offers students the opportunity to discuss relevant issues facing society. The course may be repeated for credit, by advisement, when no duplication of topics exists.
- HIS 450 The American West (3) The history of the western U.S., with special emphasis on defining the West as a region, the relation to and impact of the West on the rest of the U.S., and changing historical and popular culture interpretations of the West.
- HIS 465 The American Civil Rights Movement (3) Examines the development and achievements of the mid-twentieth century U.S. civil rights movement. The emphasis will be on the activities of civil rights organizations and their leaders; forms of white resistance, both north and south, and economic, political, and cultural legacy of the movement.
- HIS 476 Recent American Culture (3) An examination of the main themes and issues in American culture in the twentieth century. The course focuses on the development of a post-industrial mass culture and the interaction of important thinkers and ideas with historical events and trends in popular culture.
- Cross Listed Courses:**  
Three hours from the following courses may be taken as electives in the history major, minor, and endorsement programs:  
ECO 360 Global Economics  
GEO 360 Geography of Russia  
GEO 370 Geography of Latin America  
SOC 465 Peoples & Cultures of the Middle East
- Eligible seniors may enroll in 500 level graduate courses.**  
**Graduate Courses**
- HIS 505 Topics in Western Civilization (3) Reading and discussion seminar on selected topics in European history. Content and title will vary. May be repeated if topic and title are different.
- HIS 560 Topics in United States History (3) Reading and discussion seminar on selected topics in the history of the United States. Content and title will vary. May be repeated if topic and title are different.
- HIS 600 Reading Seminar in Early Western Civilization (3)  
Extensive reading and discussion seminar designed to provide a broad competency in the history of early western civilization.
- HIS 601 Reading Seminar in Modern World History (3)  
Extensive reading and discussion seminar designed to provide a broad competency in the history of modern world history.

HIS 605 Studies in Western Civilization (3) Study of a particular topic or period. Will emphasize both content acquisition and general research skills. A major research paper is required. Content and title will vary. May be repeated if topic and title are different.

HIS 660 Reading Seminar in United States History to 1877 (3) Extensive reading and discussion seminar designed to provide a broad competency in early American history. May be repeated if topic and title are different.

HIS 661 Reading Seminar in United States History Since 1877 (3) Extensive reading and discussion seminar designed to provide a broad competency in recent American history. May be repeated if topic and title are different.

HIS 665 Studies in United States History (3) Study of a particular topic or period. The course emphasizes both acquisition of content knowledge and general research skills. A major research paper is required. Content and title will vary. May be repeated if topic and title are different.

**Health Sciences (HSC)  
Physical Sciences & Mathematics Department  
School of Natural & Social Sciences  
Carhart Science Building**

See Health Sciences concentration in Chemistry and Life Sciences/Biology

**Undergraduate Courses**

HSC 345 CPR-Healthcare Provider (1) Co-requisite or Prerequisite: BIO 220. AHA/BLS Healthcare Providers course modules one through four. Review of cardiovascular anatomy and function, causes of cardiovascular disease and cardiac arrest. CPR for adults and pediatrics.

HSC 498 Clinical Programs Academic credit completed at an affiliated professional institution.

**Industrial Technology (ITE)  
Technology & Applied Science Department  
School of Business & Technology  
Benthack Building**

**Objectives:** The offerings in the Industrial Technology major are provided for the student preparing for a career in business, industry, or education. Students who are planning on a career in business or industry should consider one of the four concentrations available: Construction Management, Planning and Design, Manufacturing Management and Safety Management. These concentrations combine technical content with business courses and prepare one for introductory supervisory roles in business and industry. Students preparing to teach in the public schools technology education or trades and industry education will follow the program listed under Field Endorsement.

All Industrial Technology majors must take MAT 121 to meet the Block 2 Mathematics General Education requirement; MAT 122 is also recommended.

**Field Endorsement in Industrial Technology Education 7-12 (BA or BS) 48 hours**

ITE	105 Introduction to Technology Systems .....	3
	108 Manufacturing Processes & Systems .....	3
	109 Drafting and Design .....	3
	202 Construction Systems .....	3
	210 Intro to Energy, Power and Transportation Systems .....	3
	214 Residential Drawing <b>or</b>	
	309 Technical Drawing and Design .....	3
	307 Cabinetmaking & Millwork .....	3
	308 Construction Technology .....	3
	315 Manufacturing Technology .....	3
	326 Technology Lab Design/Mgt .....	3
	330 Welding Theory & Fabrication .....	3
	333 Electronics and Electricity .....	3
	418 Transportation Systems .....	3

One ITE Communications Elective:

ITE	351 Graphic Communications <b>or</b>	
	363 Digital Photography <b>or</b>	
	425 Desktop Publishing.....	3
	PLUS Career Education (6 hours)	
CED	417 Principles of Career Education.....	3
	463 Intro to Voc Special Needs .....	3

**Endorsement to Teach Trade and Industrial Education (BA or BS) 51 hours + 12 hours in a field of industrial technology and verified work experience**

To qualify to teach in a trade and industrial education program in the secondary schools of Nebraska, a teacher must complete the BA or BS degree with an endorsement in industrial technology education and the following requirements.

Satisfactory completion of 9 credit hours of professional vocational education courses.

CED	417 Principles of Career Education.....	3
	423 Coordinating Techniques .....	3
	463 Intro to Voc Special Needs .....	3

Satisfactory completion of 12 credit hours of course work is required in a field of industrial technology: communication, manufacturing, energy/power/transportation/ or construction.

In addition to the academic preparation, the prospective trade and industrial teacher must have work experience of 2,000 verified hours of paid employment in the field in which the specific industrial area course work is taken.

Persons with this endorsement may teach trade and industrial education in grades 9 through 12 and will also be endorsed in Cooperative Education-Diversified Occupations.

**Major in Industrial Technology (BA or BS) 56-57 hours  
Core: 18 hours**

ITE	105 Introduction to Technology Systems .....	3
	108 Manufacturing Processes & Systems .....	3
	109 Drafting and Design .....	3
	110 Occupational & Environmental Safety.....	3
	333 Electronics and Electricity.....	3
	493 Advanced Studies in Technology.....	3

Plus one of the following Concentrations:

**Construction Management Concentration: 39 hours**

ITE	202 Construction Systems	3
	211 Architectural & Industrial Finishing	3
	214 Residential Drawing	3
	301 Construction Safety	3
	308 Construction Technology	3
	314 Architectural Design	3
	390 Construction Estimating & Scheduling	3
	428 Construction Project Management	3
	438 Commercial Construction	3
BUS	222 Business Law I	3
	327 Principles of Real Estate	3
	360 Management Theory & Practice	3
	471 Principles of Supervision	3

**Drafting, Planning and Design Concentration: 39 hours**

ITE	202 Construction Systems	3
	214 Residential Drawing	3
	309 Technical Drawing	3
	314 Architectural Design	3
	315 Manufacturing Technology	3
	390 Construction Estimating and Scheduling	3
	412 Advanced Rendering and Design	3
BUS	208 Business Communication	3
	360 Management Theory and Practice	3
	471 Principles of Supervision	3
CIS	140 Intro to Microcmpr Oper Syst	3
	171 Networking <b>or</b>	
	372 Computer Hardware	3

ITE	Upper Division Electives	3
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**Safety Management Concentration: 38 hours**

ITE	203 Fundamentals of Industrial Hygiene	3
	207 Ergonomics	3
	301 Construction Safety <b>or</b>	
	306 Industrial Safety	3
	310 Workplace Accident Investigation	3
	312 Systems Safety	3
	397 Internship	3
	402 Safety Data and Analysis	3
	407 Accident Prevention	3
	408 Hazardous Materials	3
BUS	418 Legal Environment of Business	3
	471 Principles of Supervision	3
PED	241 First Aid & CPR	2
SPA	110 Elementary Spanish I	3

**Major in Technology (BA or BS) 57 hours**

The bachelor's degree with a major in Technology will provide an opportunity for the student transferring to WSC from a technical or community college with an associate of applied arts or science degree or approved coursework to continue his/her education for employment potential, advancement in business and industry or to teach at the post-secondary level.

Students majoring in technology are able to transfer up to 40 credit hours from a variety of technical and service areas including agriculture, computer, construction, drafting, industrial management, industrial trades and management services. In addition to the 40 transfer hours, students will complete an additional 17 hours of upper level credit approved

by the student's advisor(s), the Technology and Applied Science Department Chair and the Technology Curriculum Committee. (To meet graduation requirements, students must complete 40 hours of upper division credit.)

**Technology Core: 40 hours**

40 hours of technology related coursework in Agriculture, Computers, Construction, Drafting, Industrial Management, Industrial Trades, or Management Services.

**Agricultural Occupations Concentration: 17 hours**

Supporting upper level coursework by advisement ..... 17

**Computer Occupations Concentration: 17 hours**

Supporting upper level coursework by advisement ..... 17

**Construction Occupations Concentration: 17 hours**

Supporting upper level coursework by advisement ..... 17

**Drafting Occupations Concentration: 17 hours**

Supporting upper level coursework by advisement ..... 17

**Industrial Management Concentration: 17 hours**

Supporting upper level coursework by advisement ..... 17

**Industrial Trades Occupations Concentration: 17 hours**

Supporting upper level coursework by advisement ..... 17

**Management Services Occupations Concentration: 17 hours**

Supporting upper level coursework by advisement ..... 17

**Minor in Industrial Technology: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

ITE	108 Manufacturing Processes & Systems	3
	109 Drafting & Design	3
	210 Intro to Energy, Power & Transportation Systems	3
	333 Electronics & Electricity	3
	351 Graphic Communications	3

ITE upper division electives by advisement ..... 6

**Minor in Safety: 20 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

ITE	203 Fund of Industrial Hygiene <b>or</b>	
	207 Ergonomics	3
	301 Construction Safety <b>or</b>	
	306 Industrial Safety	3
	310 Workplace Accident Investigation	3
	312 Systems Safety	3
	407 Accident Prevention	3
	408 Hazardous Materials	3
PED	241 First Aid and CPR	2

**Undergraduate Courses**

ITE 105 Introduction to Technology Systems (3) ITE majors must pass with a C or better. This introductory course will provide an excellent opportunity for undeclared majors to explore career options in industrial technology and provide all industrial technology majors the foundation for college level technology activities. An introduction to the four technological systems: manufacturing, design, construction and transportation. Laboratory activities will provide students an opportunity to develop knowledge and skills in the four systems. Career opportunities for industrial

- management and technology education will be explored.
- ITE 108 Manufacturing Processes and Systems (3) Students in this course will look at the processes of casting, forming, joining, machining and finishing of metals, polymers, ceramics, composites and wood. Students will have to demonstrate abilities in precision measurement, machine setups and basic machining operations. (Lecture and lab combined)
- ITE 109 Drafting and Design (3) An introduction to drafting that will emphasize geometric construction, multi-view drawings, orthographic projection, sectional views, primary and secondary auxiliary views, dimensioning, isometric drawing, sketching and drafting standards. The course will include extensive use of computer aided drafting software. (Lecture and lab combined)
- ITE 110 Occupational and Environmental Safety (3) This course will explore occupational safety and health legislation, hazard control management and the history of safety in the United States. The course will look at safety as it pertains to land, sea and air, as well as major safety organizations.
- ITE 202 Construction Systems (3) ITE majors must pass with a C or better. This course is designed to introduce the student to a broad sector of our nation's industrial economy. Construction systems will explore all areas of construction including residential, commercial and civil or heavy construction. The processes of design, estimating, planning and the contractor's role in scheduling will be covered. The interrelationship of the management and production elements will be investigated by completing several activities in each area. (Lecture and lab combined)
- ITE 203 Fundamentals of Industrial Hygiene (3) An overview of the reasons for, benefits of and activities related to occupational environmental control programming and industrial hygiene practices.
- ITE 207 Ergonomics (3) This course is a study of human characteristics for the appropriate design of the workplace environment to promote safety, well being and work efficiency.
- ITE 210 Introduction to Energy, Power and Transportation Systems (3) A study of various energy, power and transportation systems utilized to move people and goods through various environments. The course will address the design, industrial application, proper nomenclature, troubleshooting and repair of various power and transportation units. Alternative energy forms will be explored. The power systems studied will include the internal combustion engine, hydraulics, pneumatics, rockets, diesel, jet and steam engines as they relate to society's energy and transportation needs. Transportation environments studied include terrestrial, marine, atmospheric and space. (Lecture and lab combined)
- ITE 211 Architectural and Industrial Finishing (3) Introduction to the many types of finishing materials and techniques used in modern architectural designs and on industrial goods. Residential, commercial and industrial finishes will be explored and students will practice several application techniques on personal or departmental projects. (Lecture and lab combined)
- ITE 214 Residential Drawing (3) Prerequisite: C or better in ITE 109. This course explores the fundamentals of residential drawing and the application of computer aided drafting. Students develop skills in sketching, home planning, design, layout and building material selection for residential structures. Students are required to complete a full set of construction documents to include floor plans, foundation plans, elevations, kitchen and bath plans, detail drawings, general, specific notes and a 3D rendering. (Lecture and lab combined)
- ITE 301 Construction Safety (3) This course will focus on safety issues directly related to the construction industry. Students will explore state and federal regulations associated with the construction industry. The course will include both classroom activities and "in the field" activities to further their understanding of the issues faced by construction companies.
- ITE 306 Industrial Safety (3) This course will focus on safety issues directly related to the industrial environment. Students will look at state and federal regulations associated with the industrial/manufacturing environment.
- ITE 307 Cabinetmaking and Millwork (3) Prerequisite: ITE 105 or permission by instructor. The operation and care of modern cabinetmaking and millwork tools, equipment and materials. Emphasis will be on design, estimating and the actual production of cabinets and millwork relevant to current trends in industry. Other considerations include various material finishes including plastic laminates, wood finishes and the proper safety practices involved in production. (Lecture and lab combined)
- ITE 308 Construction Technology (3) Prerequisite: C or better in ITE 202. Students enrolled in this course study the proper care and operation of various hand and power tools used in construction, basic masonry and carpentry practices; framing; interior and exterior finishing; reading and interpreting of building blueprints and specifications with actual application of the competencies necessary to complete various construction projects. (Lecture and lab combined)
- ITE 309 Technical Drawing and Design (3) Prerequisite: C or better in ITE 109. This course includes the development of technical working drawings to include correct methods of dimensioning and tolerancing, use of ANSI standards, sheet-metal developments, documentation of shop processes, use of fasteners and pictorial drawings. An introduction to 3D modeling, rendering and an introduction to CNC and computer aided manufacturing processes is also included. (Lecture and lab combined)

- ITE 310 Workplace Accident Investigation (3) This course will explore the principles and application of workplace accident investigation techniques as they relate to the management of occupational safety and health programs. A variety of theories and practices will be discussed and evaluated using case studies of actual accidents.
- ITE 312 Systems Safety (3) This course will focus on systems safety as they apply to the management of safety and health programs. The student will explore a variety of concepts as they pertain to system safety.
- ITE 314 Architectural Design (3) Prerequisite: C or better in ITE 214. This course looks at architectural design using a design team/client approach. Emphasis is on a major commercial project. Teams will interview clients, determine client needs, develop and refine design proposals, develop working and presentation drawings. The course includes the development of a project summary that is presented to the client and use of 3D CAD models, rendering, construction terminology, interior design and cost estimation. Rendering of 3D models and portfolio development are also included. (Lecture and lab combined)
- ITE 315 Manufacturing Technology (3) This course emphasizes the methods used to access and improve the efficiency of manufacturing processes. Engineering principles used in casting, forming, joining, machining and finishing of metals, polymers, ceramics, woods and composites will be considered in the course. Students will also explore the areas of CNC, process flow, jigs and fixtures. (Lecture and lab combined)
- ITE 320 Technology and Society (3) Prerequisites: Junior standing, 60 or more hours completed. A study focusing on the nature of modern technology with emphasis on how technology affects human culture and the individuals in society. The content to be offered will include various aspects of technology and its changing relationship to humankind in the past, present and future.
- ITE 326 Technology Lab Design and Management (3) This course will address the design and management of planning and design, fabrication, testing and analysis, and individual studies of technology laboratories. Information on careers and occupations and environmental safety issues will be provided for pre-service teacher education majors. Modular technology laboratory design and operation will also be covered. (Lecture and lab combined)
- ITE 330 Welding Theory and Fabrication (3) Tools, equipment, safety practices, materials and basic metallurgy used in electric arc, oxy-acetylene, metal, inert gas and tungsten arc inert gas welding will be covered in this course. Fabrication techniques with sheet metal and other ferrous materials will also be covered along with parametric modeling software. (Lecture and lab combined)
- ITE 333 Electronics and Electricity (3) Principles of electronics and electricity with emphasis on Ohm's Law, basic circuits, meters, residential wiring and National Electrical Code. Circuit analysis and wiring is explored through laboratory experiences. (Lecture and lab combined)
- ITE 351 Graphic Communications (3) An introduction to graphic communications with a broad range of topics providing students with skills for professional, educational, and personal use. Design, image generation, pre-production, desktop publishing, digital photography, and methods of screen process printing will be studied. (Lecture and lab combined)
- ITE 363 Digital Photography (3) Digital photography is the creation of photographs encoded as binary data. Digital photography is quickly becoming a mass-market product. This course in digital photography is designed to provide practical, user-focused information and understanding of the tools available and their real-world possibilities. (Lecture and lab combined)
- ITE 390 Construction Estimating and Scheduling (3) This course will focus on project estimating and scheduling using industry standards, scheduling techniques, including critical path scheduling. The course will include the use of Timberline software and Excel spreadsheets. The use of cost handbooks, specifications and bid documents will be explored.
- ITE 397 Internship (1-12) Prerequisites: Instructor permission, junior standing or above. Safety Management concentration students taking an internship for their major receive placement in a professional capacity where safety related issues can be experienced and the student is supervised for a period of at least 50 clock hours for each credit hour earned.
- ITE 402 Safety Data and Analysis (3) Prerequisite: Junior or senior standing. This course will cover accident safety data and analysis. Decision making with the use of accident data will be a major focus of this course. Resources that compile accident statistics will be investigated. The course will include basic statistical techniques.
- ITE 407 Accident Prevention (3) This course will explore the principles and theories of accident causation and prevention in the workplace. The impact of accidents on society today, psychological factors related to accidents, legal requirements, accident prevention in business and industry, schools and the community.
- ITE 408 Hazardous Materials (3) This course will focus on the examination of issues concerning the use of hazardous materials in the construction and industrial environments. Chemical and physical properties as well as issues related to the transportation of these materials will be addressed.
- ITE 412/512 Advanced Design and Rendering (3) Prerequisite:

C- or better in ITE 214 or by permission. This course will examine operating systems hardware, software and customization as they relate to computer aided design. Attention will be given to design analysis, the design process, project design, modeling, production and prototypes. This course will include extensive use of computer software, 3D, solid modeling and rendering. (Lecture and lab combined)

ITE 416 Industrial Technology Education Practicum (1-3)  
Prerequisite: Department chair approval. Laboratory assistance, organization, presentation and evaluation of activity units in industrial technology classes. May be repeated twice for a total of six hours credit.

ITE 418/518 Transportation Systems (3) This course is designed to explore various transportation systems including material handling systems as well as automobiles, trains, planes, ships and space travel with emphasis on future trends and possible solutions to problems associated with moving people and goods throughout the country and in the world. The course will emphasize alternative fuels, hydraulics, pneumatics and power systems associated with emerging technologies. Students will build prototype models and develop proposals exercising problem solving and critical thinking skills to reach appropriate solutions. (Lecture and lab combined)

ITE 425/525 Desktop Publishing (3) The study of the methods and processes included in desktop publishing. Including the use of the associated hardware and software. Composition and design of graphic communications using word processing, graphics and page formatting programs. (Lecture and lab combined)

ITE 428 Construction Project Management (3) Prerequisites: C or better in ITE 308, 390. The students will demonstrate the role of a contractor through the design and construction phases of a construction project. they will be responsible for planning, organizing, staffing, directing, and controlling labor and material. they will also work with equipment utilization, cost estimation and pricing, cost control, and accounting throughout the various phases of a construction project. (Lecture and lab combined)

ITE 438 Commercial Construction (3) This course covers commercial and civil construction designs. Topics include: materials, materials testing, design considerations, characteristics of commercial/civil construction vs. residential construction and career opportunities.

ITE 440/540 Principles of Technology (3) Prerequisite: High school algebra. The study of the basic principles associated with the fundamental development of technology. The course will cover topics in force, work, rate, resistance, energy, power, fore transformers, momentum, waves and vibrations, energy converters, transducers, radiation, optical systems and time constants. The course will explore the

curriculum content, demonstrations, math labs, hands-on lab and tests. Students intending to teach Principles of Technology in secondary schools are strongly encouraged to take this course.

ITE 493 Advanced Studies in Technology (3) Students will complete their senior project while in this course. The senior project will demonstrate what the student has learned during their four years in the program. The project will be completed using a standard format developed by the department.

**Eligible seniors may enroll in 500 level graduate courses.  
Graduate Courses**

ITE 505/605 Organization of Technology Education Programs (3) Philosophy and types of activities in the secondary and vocational school lab type of class. Selection and organization of instructional materials, layout and planning of facilities, equipment and tool selection, distribution systems for tools and materials. An introduction to job analysis and organization of student personnel systems.

ITE 510 Teaching Techniques, Curriculum and Course Organization (3) Current practices and teaching techniques in Technology Education. Course organization and curriculum development in the specified area of study. Course is designed in terms of individual needs. When offered in a given semester, this course will address the following areas of technology: Repeatable up to 12 hours with a different topic.

- (a) Communications Systems
- (b) Production Systems
- (c) Construction Systems
- (d) Energy, Power, and Transportation Systems

ITE 512 Advanced Design and Rendering (3) See ITE 412

ITE 518 Transportation Systems (3) See ITE 418

ITE 525 Desktop Publishing (3) See ITE 425

ITE 540 Principles of Technology (3) See ITE 440

ITE 605 Organization of Technology Education Programs (3)  
See ITE 505

ITE 640 Manufacturing Techniques in Cabinetmaking (3) Advanced course in the modern techniques of cabinet manufacturing and construction techniques. Will include instruction in composite materials, adhesives, construction techniques, computer aided manufacturing and production systems. Students will construct a cabinet. Students should have knowledge of basic woodworking tools.

ITE 650 Developments in Technology Education (3) A seminar covering research and discussion of technical innovations, new and experimental curricular developments, trends in state and federal legislations and guidelines.

**Interdisciplinary Studies (IDS)**

**Objectives:** Interdisciplinary activities, courses, and programs of study are designed to help the student better understand relationships between and among various disciplines. A student interested in Interdisciplinary Studies should contact his/her advisor or the Office of Records & Registration for further information.

**Bachelor of Science - Bachelor of Arts**

Interdisciplinary Studies

(an advisor/student constructed major)

**Objectives:** The Interdisciplinary Studies major is designed to provide the maximum flexibility for the student in determining the content of his or her degree program.

Interdisciplinary Studies majors are not necessarily professionally-oriented or career-oriented degree programs. However, a program must emphasize a clearly defined area, body of thought, or educational goal. These programs are not intended to allow students to graduate without concentrating their thoughts in some clearly defined area of emphasis.

**Interdisciplinary Studies Major**

Interdisciplinary Studies majors replace conventional comprehensive majors in the General Requirements for graduation. All other General Requirements for graduation must be fulfilled. The program should be requested prior to completion of 80 hours.

Interdisciplinary Studies programs must be signed and approved by an advisor, department chair, and the Vice President for Academic Affairs in consultation with the Chair of the Academic Policies Committee. The Chair of the committee has the option to take the proposal to the full committee. The signed program will be forwarded to the Office of Records & Registration.

The student will complete 50 credit hours of Interdisciplinary Studies with an emphasis in one department and supporting work in at least one other department.

All courses are eligible for inclusion in a program. The program must include a minimum of 25 credit hours in one area. 50% of the hours in the major must be upper level courses.

**Interdisciplinary Studies Minor**

A student may select an individual program of study cutting across departmental lines. Such programs consist of a minimum of 18 semester hours. A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s). The minor should be requested prior to completion of 80 hours.

The program must be an organized sequence of courses with a major emphasis in one department and supporting work in at least one other department. At least 50% of the hours must be upper level.

An Interdisciplinary Minor satisfies the degree requirement for second field of study in the Bachelor of Arts or the Bachelor of Science.

**Interdisciplinary Courses**

Interdisciplinary courses bring together a variety of fields of study, stressing the wholeness of human knowledge rather than its particularity. The courses demonstrate that different disciplines provide alternate perspectives on the same truths and understandings. They integrate student learning and provide an introduction to a wide variety of liberal arts disciplines.

**Undergraduate Courses**

IDS 110 Shapers of the Modern Mind (1) Conducted as a colloquium, this course provides a discussion about great thinkers and ideas that have shaped the modern mind. Topic varies from term to term. Three semesters of IDS 110 are required for Neihardt Scholars; other qualified students may be admitted with the approval of the Director of the Neihardt Scholars Program.

**Mathematics/Mathematics Education (MAT)**

**Physical Sciences & Mathematics Department**

**School of Natural & Social Sciences**

**Carhart Science Building**

**Objectives:** The Mathematics program is intended for those students who desire to (1) teach 7-12 mathematics, (2) pursue advanced studies in mathematics, (3) apply mathematics in some technical field or (4) derive pleasure and profit from the study of mathematics.

**Mathematics/Mathematics Education (BA or BS)**

**42-50 hours**

The Mathematics Core is the foundation for a comprehensive major with three options: 1) Applied Mathematics, 2) Pure Mathematics, and 3) 7-12 Field Endorsement.

**Mathematics Core: 29 hours**

MAT 140	Calculus I.....	5
	240 Calculus II .....	5
	270 Foundations of Mathematics .....	3
	340 Calculus III.....	4
	350 Linear Algebra.....	3
	400 Real Analysis I.....	3
	410 Probability and Statistics I.....	3

460 Senior Seminar **or**

465 Mathematics Education Seminar.....3

Choose one of the following concentrations:

**Applied Mathematics Concentration: Minimum of 21 hours + 29 hour core**

All Applied Mathematics majors must take CSC 150 & 160 to meet computer literacy requirements.

Applied Mathematics students must choose an emphasis in A) Mathematics, B) Biology, C) Chemistry, D) Computer Science, E) Economics, or F) Physics.

General education requirements must be met in the following way: Students in all emphases must take BIO 110 as a Life Science, ECO 202 as a Social Science, and ECO 203 as a Block 3 elective. Students with an emphasis in B) Biology must take CHE 106 as a Physical Science. Students emphasizing in C) Chemistry or F) Physics must take PHY 301 & 321 as a Physical Science. Students with any other emphases can take either PHY 301 & 321 or CHE 106 as a Physical Science

Students must take MAT 460 as listed in the core. Students must also take:

MAT 250	Differential Equations.....	3
	305 Discrete Mathematics.....	3

405 Applied Mathematics.....3  
 415 Probability and Statistics II .....3  
 440 Numerical Analysis .....3

Upper level courses may need supporting coursework completed before students can enroll, therefore students should contact their mathematics advisor(s) before enrolling.

**A) Mathematics**

MAT 320 College Geometry.....3  
 360 Abstract Algebra .....3

**B) Biology**

Choose a minimum of 6 hours from:

BIO 320 Molecular Genetics (4)  
 325 Ecology (4)  
 345 Conservation Biology (3)  
 385 Microbiology (4)

**C) Chemistry**

CHE 456 Physical Chemistry I.....3  
 457 Physical Chemistry II .....3

**D) Computer Science**

Choose a minimum of 6 hours from:

CSC 310 Data Structures (3)  
 345 Computer Graphics (3)  
 365 Scripting Languages (3)  
 378 Robotics (3)  
 380 Operating Systems (3)  
 432 Parallel Programming (3)

**E) Economics**

Choose a minimum of 6 hours from:

BUS 322 Managerial Finance (3)  
 ECO 302 Intermediate Macroeconomics (3)  
 303 Intermediate Microeconomics (3)  
 430 International Economics (3)

**F) Physics**

Choose a minimum of 6 hours from:

PHY 302/322 University Physics & Physics Lab II (5)  
 336 Classical Mechanics (3)  
 345 Thermodynamics (3)  
 356 Electricity & Magnetism (3)  
 457 Modern Physics (3)  
 465 Optics (3)

**Pure Mathematics Concentration: 21 hours + 29 hour core**

Pure Mathematics majors must take CSC 150 to meet computer literacy requirements.

Students must take MAT 460 as listed in the core.

MAT 250 Differential Equations.....3  
 320 College Geometry.....3  
 360 Abstract Algebra .....3  
 440 Numerical Analysis .....3  
 MAT Electives numbered 300 or above.....9

**Field Endorsement in Mathematics 7-12: 13 hours + 29 hour core**

7-12 Field Endorsement majors must take CSC 150 to meet computer literacy requirements.

Students must take MAT 465 as listed in the core.

MAT 305 Discrete Mathematics .....3  
 320 College Geometry.....3  
 360 Abstract Algebra .....3  
 MAT Electives numbered 180 or above.....4  
 MAT 210 or MAT 215 for one (1) credit can be applied to the

**Field Endorsement.**

Students interested in the Field Endorsement are also required to complete the Secondary Professional Education courses. EDU 409 Mathematics Content Area Methods and Materials must be taken as part of the professional education requirements.

**Minor in Mathematics: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

MAT 140 Calculus I.....5  
 240 Calculus II .....5  
 270 Foundations of Mathematics .....3  
 MAT Electives numbered 300 or above.....8

**Mathematics Concentration for Elementary Teachers: 22 hours**

22 hours of optional work supporting the Elementary Education Endorsement

MAT 130 Pre-Calculus Mathematics.....5  
 140 Calculus I.....5  
 210 Math for Elem School Teachers I .....3  
 215 Math for Elem School Teachers II.....3  
 MAT Electives numbered 180 or above.....6

WSC will allow advanced placement credit for MAT 140 Calculus I (5) after a student has successfully completed MAT 240 Calculus II (5) with a grade of C or better at WSC, and has paid the current Credit by Examination rate per credit hour, provided:

1. The student is a freshman, and
2. MAT 240 Calculus II is taken in his/her first semester on this campus or during the first semester it is offered, and
3. No Calculus class is taken on any other college campus before coming to WSC.

**Undergraduate Courses**

MAT 105 Intermediate Algebra (3) Prerequisite: Placement or "C-" grade or better in GST 102. Designed for the student with a limited algebra background but a solid foundation in computational arithmetic skills is expected. Study of ratios, proportions, sets, functions, number systems, simple equations, factoring, fractions, exponents, radicals, logarithms, algebraic manipulations. This course does not meet a general education requirement.

MAT 110 Topics and Ideas in Mathematics (3) Prerequisite: Placement or "C-" or better in MAT 105. An introduction to the basic ideas of mathematical thinking as they are related to the student in General Education. Consideration is given to such topics as algebra, geometry, sets, logic, probability, and statistics.

MAT 121 College Algebra (3) Prerequisite: Placement or "C-" or better in MAT 105. This course is a study of equations and inequalities; functions and graphs; polynomial and rational functions; exponential logarithmic functions; systems of equations and inequalities.

MAT 122 Applied Trigonometry (1) Prerequisite: C- or better in MAT 121. Angle measurement, circular functions, inverse trigonometric functions, trigonometric functions of an

acute angle, solutions of right triangles, law of sines, law of cosines, additional theorems and related formulas, trigonometric identities, and applications.

**MAT 130 Pre-Calculus (5)** Prerequisite: Placement or “C-” or better in MAT 121. A unified course which includes sets, relations, functions, operations, graphs, polynomials, sequences, field properties, algebraic expressions, systems of equations and inequalities, complex numbers, exponential, logarithmic, circular, and trigonometric functions and limits.

**MAT 140 Calculus I (5)** Prerequisite: Placement or “C-” or better in MAT 130. Theory and applications of limits, derivatives, antiderivatives, definite integrals, and differentials of algebraic, trigonometric, logarithmic, and exponential functions.

**MAT 180 Applied Probability and Statistics (3)** Prerequisite: Placement or “C-” or better in MAT 121. A study that includes the binomial, normal, t-score, chi-square distributions and how they are related to testing hypothesis. The analysis of variance, least squares fit, correlation coefficient, mathematical expectation and how these topics are related to probability and decision making.

**MAT 210 Mathematics for Elementary School Teachers I (1 or 3)** Prerequisite: Placement or “C-” or better in MAT 105. Elementary sets, set operations, Venn diagrams, relations, equivalence relations, functions, numeration systems, whole numbers, integers, algorithms, divisibility, primes, congruence, rationals, and reals. The three hour course is intended for Early Childhood Unified Education, Elementary Education, Middle Grades Education, and Special Education majors. The one hour course MAT 210 may be applied to the mathematics endorsement.

**MAT 215 Mathematics for Elementary School Teachers II (1 or 3)** Prerequisite: “C-” or better in MAT 210. Probability and data analysis, geometry, measurement, problem solving, reasoning and proof. One hour of MAT 215 may be applied to the mathematics field endorsement.

**MAT 240 Calculus II (5)** Prerequisite: “C-” grade or better in MAT 140. Integration techniques, parametric equations, polar coordinates, conic sections, and infinite sequences and series.

**MAT 250 Differential Equations (3)** Prerequisite: MAT 240. First- and second-order methods for ordinary differential equations including: separable, linear, Laplace transforms, linear systems, and applications. Qualitative, analytic and numeric techniques will be considered.

**MAT 270 Foundations of Mathematics (3)** Prerequisite: MAT 140. This course covers topics in sets and logic with the objective of using these topics to study the nature of the different types of proofs used in mathematics. In addition, problem solving techniques and strategies are also covered.

**MAT 305 Discrete Mathematics (3)** A survey of elementary

discrete mathematics. Topics include set theory, relations, functions, elementary graph theory, including directed graphs and trees and selected graph algorithms. Algebraic structures including groups, lattices, elementary combinatorics, permutations and combinations will be studied.

**MAT 320 College Geometry (3)** Prerequisite: MAT 140 or consent of instructor. The course presents a formal axiomatic development of neutral and Euclidean geometry with an emphasis on valid arguments. Non-Euclidean geometry will also be investigated.

**MAT 340 Calculus III (4)** Prerequisite: “C-” grade or better in MAT 240. Vectors and vector calculus, cylindrical and spherical coordinates, and the theory and application of partial derivatives and multiple integration.

**MAT 350 Linear Algebra (3)** Prerequisite: MAT 140. An introduction to matrix algebra which includes the inversion of a matrix, rank of matrix and characteristic roots of a matrix, bilinear, quadratic and hermitian forms, vector spaces, linear transformations, unitary and orthogonal transformations and linear dependence.

**MAT 360 Introduction to Abstract Algebra (3)** Prerequisite: MAT 270 and 340 or department consent. An introduction to abstract-structural concepts including equivalence relations, congruence modulo  $n$ , and homomorphisms, primarily within the context of group theory. There is an emphasis on construction of proofs.

**MAT 400/500 Real Analysis I (3)** Prerequisite: MAT 340. The real number system, basic notions of set theory, basic point set topology, limits and continuous functions, differentiable functions.

**MAT 405 Applied Mathematics (3)** Prerequisites: MAT 250 and 340. Explores analytical and numerical methods of solution in various mathematical and scientific areas. Topics include modeling, infinite series, vector analysis, Fourier series, partial differential equations, integral transformations, and complex analysis.

**MAT 410 Probability and Statistics I (3)** Prerequisite: MAT 340. The mathematical development of discrete and continuous probability distributions including multivariate distributions, moments and moment generating functions, the normal distribution, sampling distributions.

**MAT 415/515 Probability and Statistics II (3)** Prerequisite: MAT 410. A continuation of MAT 410, including sampling distributions, confidence intervals, hypothesis testing, correlation and regression.

**MAT 420/520 Number Theory (3)** Prerequisite: Jr./Sr. standing. Theory of primes, continued fractions, quadratic residues, congruencies, primitive roots, and indices.

**MAT 430/530 Modern Algebra (3)** Prerequisite: Jr./Sr. standing. This course studies rings, integral domains, fields, polynomial rings over a field, and the solving of polynomial equations

by radicals. The course also covers mathematical similarity between the ring of integers and the ring of polynomials as well as the study of extension fields.

**MAT 435/535 History of Mathematics (3)** Prerequisite: Jr./Sr. standing. A survey of the history of mathematics emphasizing both development of mathematical concepts and the people involved.

**MAT 440 Numerical Analysis (3)** Prerequisite: MAT 240. An introduction to numerical solutions to problems in various mathematical and scientific areas.. Topics to include solution of equations and systems of equations, interpolation and curve fitting, approximation of polynomials, and numerical differentiation and integration.

**MAT 460 Senior Seminar in Mathematics (3)** Prerequisite: Senior Standing. A research and discussion course in which one or more advanced topics will be discussed based upon faculty and student interest. Students will be required to research a mathematics topic and will make a public presentation of their findings.

**MAT 465 Mathematics Education Seminar (3)** Prerequisite: Senior Standing. A seminar course in which students will discuss the relationships between the mathematics they have studied and the teaching of mathematics. Students will research a topic in mathematics education and make a public presentation of their findings.

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

**MAT 500 Real Analysis I (3)** See MAT 400.

**MAT 515 Probability and Statistics II (3)** See MAT 415.

**MAT 520 Number Theory (3)** See MAT 420.

**MAT 530 Modern Algebra (3)** See MAT 430.

**MAT 535 History of Mathematics (3)** See MAT 435.

**MAT 555 Real Analysis II (3)** Prerequisite: MAT 400/500. This course is a continuation of MAT 400/500 Real Analy-

sis I and includes topics such as infinite series and integration theory.

**MAT 600 Current Issues and Trends in Mathematics/Mathematics Education (3)** The course explores issues and trends having a direct impact on mathematics and the way in which mathematics is taught. It presents a comprehensive approach to the exploration of the various topics and issues discussed. The course offers students an opportunity to examine contemporary educational topics and how they impact the teaching of mathematics. The course will also provide students with a foundation for professional development.

**MAT 610 Modern Developments in Geometry (3)** A survey of geometrics to include Euclidean, Transformation, finite, and coordinate geometries and how they relate to high school geometry.

**MAT 620 Topics in Discrete Mathematics for Teachers (3)** A study of discrete structures to include finite graphs, matrices, sequences, and recurrence relations.

**MAT 645 Mathematics Curriculum and Teaching (3)** The courses is designed to examine the principles underlying the development and teaching of the 5-12 mathematics curriculum. Emphasis will be placed on learning theory, different curricular models, the teaching of mathematics, and assessment. The roles that national, state, and local groups play in curriculum development will also be examined.

**MAT 660 Mathematical Modeling and Statistics (3)** Mathematical concepts and techniques are used in modeling real-life problems. Statistical techniques are used in analyzing

**MAT 682 Topics in Mathematics (3)** The course will be based on current needs and wants of students in the program. It will provide the mathematical development necessary to support those needs and wants. Students may enroll in the course more than once as long as the topic to be covered is different each time. Possible topics might include (but not limited to): topology, complex analysis, sets and logic, ring and field theory, differential geometry, and/or chaos and fractals.

**Modern Languages and Cultures (MLC)  
Language & Literature Department  
School of Arts & Humanities  
Humanities Building**

The mission of the Modern Language program is to provide students with educational experiences in modern languages, literatures, histories, and cultures, as well as study abroad opportunities.

The Modern Language program prepares students to live and work in the "global village" of contemporary society. Students may prepare for careers in education, business, government, health, counseling, and law enforcement. Language studies are also essential for those planning to pursue graduate work in many fields. Many students combine

a language major or minor with another field to enrich their preparation and enhance their marketability. Students specializing in a modern language are expected to spend time abroad in a country where the language is spoken. There are several opportunities at Wayne State College to improve language skills and experience other cultures in study abroad programs.

Students may pursue a major, minor, or subject endorsement in Spanish as well as a subject endorsement or minor in French. The department also offers elementary German and occasional courses such as Russian, Portuguese, Chinese, and American Sign Language. Choose a language - or languages - and prepare for a wealth of exciting and challenging opportunities for study, travel, and enrichment.

**Advanced or Refresher Study**

Students with previous experience in a language may receive advanced placement and credit by CLEP examinations. Most students with two or three years of high school language should register for second semester (120) courses. Students with four years of high school language should take the third semester (210) course and lab (215) after consulting with a modern language faculty member. Students with greater fluency in Spanish or French should also be advised by a modern language faculty member about a major, minor, or endorsement. Completion of at least five hours of study in one foreign language at the 200-level or above is also required for the Bachelor of Arts (BA) degree from Wayne State College.

**Undergraduate Courses**

MLC 110 Elementary Language I (3) Fundamentals of a language other than Spanish, French, or German. Basic grammar, reading, writing, conversation, and culture. No previous knowledge of the language required. Languages offered may include Russian, Chinese, Japanese, and American Sign Language, depending on the availability of an instructor. MLC 110 may be repeated for credit if the target language differs.

MLC 120 Elementary Language II (3) Prerequisite: MLC 110 or equivalent. Continued study of a language other than Spanish or French.

**French (FRE)**

**Minor in French: 20 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

FRE 210 Intermediate French I .....	3
220 Intermediate French II .....	3
230 Conversation and Composition .....	3
313 French Civilization I.....	3
Electives (300 level or above).....	6
Two hours of lab (215, 350) must be taken .....	2

**Subject Endorsement in French (BA) 30 hours**

The subject endorsement in French requires 10 additional hours of upper level language course work beyond the requirements for the minor. EDU 409 Foreign Language Content Area Methods and Materials must be taken as part of the professional education requirements.

**Undergraduate Courses**

FRE 110 Elementary French I (3) Basic grammar, reading, writing, and conversation, with attention to differences and similarities between French and American cultures. No previous knowledge of French required. (One-hour lab per week required.)

FRE 120 Elementary French II (3) Prerequisites: FRE 110 or permission of instructor. Emphasis on oral and written skills, as well as reading and culture. (One hour per week lab required.)

FRE 210 Intermediate French I (3) Prerequisites: One year of college French or equivalent knowledge and co-register in FRE 215. Grammar review and advanced presentation of the structure of the language, stressing aural understanding, conversational skills, reading, and writing.

FRE 215 Language Lab (1) Class or individualized audio, video and multimedia practice. (Repeatable once for credit) Must be taken with FRE 210 and 220.

FRE 220 Intermediate French II (3) Prerequisites: FRE 210 or equivalent knowledge and co-register in FRE 215. Continuation of FRE 210.

FRE 230 Conversation and Composition (3) Prerequisite: One year of college French or equivalent. To be taken with FRE 210 or 220 if possible. Practice in speaking, understanding, and writing French. Activities are designed to develop oral and written skills.

FRE 313 French Civilization I (3) A historical, political, philosophical, geographical, and economic study of France.

FRE 314 French Civilization II (3) Continuation of FRE 313. Emphasizes cultural contributions of the French.

FRE 316 Approaches to French Literature (3) Readings in fiction, drama, and poetry in conjunction with grammar review.

FRE 340/440/540 Special Topics (2-3) Detailed study of a particular aspect of the language, an author, movement, genre, historical period, or topic of general relevance in the French culture. This course may be repeated once covering a different topic. Graduate credit may be granted after fulfillment of special course requirements. When the course is scheduled with a General Studies number, the lecture and reading will be in English. May be repeated with permission of instructor.

FRE 350 Advanced Language Lab (1) Class or individualized audio, video and multimedia practice.

FRE 383 French Film and Literature (3) See ENG 383/CNA 383. Course is cross-listed when offering includes a number of French films. CNA/ENG/FRE 383 is repeatable once for credit.

FRE 415 Advanced Composition and Translation (3) Practice in writing French as well as in oral and written translation between French and English. May be repeated for credit with different content.

**German (GER)**

**Undergraduate Courses**

GER 110 Elementary German I (3) Basic grammar, reading, writing, and conversation, with attention to cultural differences and similarities between Germanic and North American cultures. No previous knowledge of German Required. (One-hour lab per week required.)

GER 120 Elementary German II (3) Prerequisites: GER 110 or permission of instructor. Emphasis on oral and written skills, as well as reading and culture. (One hour per week lab required.)

### Spanish (SPA)

#### Major or Subject Endorsement in Spanish (BA) 30 hours

SPA 210 Intermediate Spanish I.....	3
220 Intermediate Spanish II.....	3
230 Conversation and Composition .....	3
301 Spanish Civilization <b>or</b>	
302 Spanish-American Civilization .....	3
305 Advanced Grammar and Comp .....	3
317 Spanish Literature <b>or</b>	
333 Survey of Spa Amer Lit.....	3
3 hours of lab (215, 350) must be taken .....	3

Electives: (at 300 level or above).....9

For the endorsement, EDU 409 Foreign Language Content Area Methods and Materials must be taken as part of the professional education requirements.

#### Minor in Spanish: 20 hours

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

SPA 210 Intermediate Spanish I.....	3
220 Intermediate Spanish II.....	3
230 Conversation and Composition .....	3
301 Spanish Civilization <b>or</b>	
302 Spanish-American Civilization .....	3

Electives (300 level or above).....6

Two hours of lab (215, 350) must be taken .....2

#### Undergraduate Courses

SPA 110 Elementary Spanish I (3) Basic grammar, reading, writing, and conversation, with attention to cultural differences and similarities between Hispanic and North American cultures. (One-hour lab per week required.) Taught fall semester.

SPA 119 Spanish for Law Enforcement Personnel (3) This course teaches work-related vocabulary and phrases for students preparing for careers in law enforcement. Sample topics include control and arrest, serving warrants, asking field information questions, booking suspects, making traffic/DUI stops, and recognizing danger/alert words.

SPA 120 Elementary Spanish II (3) Prerequisites: SPA 110 or permission of instructor. Emphasis on oral and written skills, as well as reading and culture. (One hour per week lab required.)

SPA 210 Intermediate Spanish I (3) Prerequisites: One year college Spanish or equivalent knowledge and co-register in SPA 215. Grammar review and advanced presentation of the structure of the language, stressing aural understanding, conversation skills, reading and writing. (One-hour lab per week required.)

SPA 215 Language Lab (1) Class or individualized audio, video and multimedia practice. (Repeatable once for

credit). Must be taken with SPA 210 and 220.

SPA 220 Intermediate Spanish II (3) Prerequisites: SPA 210 or equivalent knowledge and co-register in SPA 215. Continuation of SPA 210. (One-hour lab per week required.)

SPA 230 Conversation and Composition (3) Prerequisite: One year of college Spanish or equivalent. To be taken with SPA 210 or 220 if possible. Practice in speaking, understanding, and writing Spanish. Activities are designed to develop oral and written skills.

SPA 301 Spanish Civilization (3) A historical, political, philosophical, geographical and economic study of Spain.

SPA 302 Spanish-American Civilization (3) A historical, political, philosophical, geographical and economic study of Spanish America.

SPA 303 Hispanics in the United States (3) This course is a survey of various aspects of the Hispanic experience in the United States today. Students will focus on three major Hispanic groups: Mexican Americans, Cuban Americans, and Puerto Ricans.

SPA 304 Spanish for Business (3) Prerequisite: SPA 210 or permission of instructor. A course designed to improve students' knowledge of business concepts and documents, Spanish business terminology and correspondence.

SPA 305 Advanced Grammar and Composition (3) A course designed to introduce advanced study of grammatical structure and a practical application of grammar in composition.

SPA 316 Introduction to Hispanic Literature (3) A survey of literary movements in Spanish and Latin American literature: readings in drama, fiction and poetry; grammar review.

SPA 317 Spanish Literature (3) A survey of Spanish Literature from medieval times to the present.

SPA 333 Survey of Spanish American Literature (3) A survey of Spanish-American literature from colonial times to the present.

SPA 340/440/540 Special Topics (2-3) Detailed study of a particular aspect of the language, an author, movement, genre, historical period, or topic of general relevance in the Spanish cultures. This course may be repeated once at each level covering a different topic. Graduate credit may be granted after fulfillment of special course requirements. When the course is scheduled with a General Studies number, the lectures and readings will be in English. May be repeated once at each level with permission of instructor.

SPA 350 Advanced Language Lab (1) Class or individualized audio, video and multimedia practice.

**Music (MUS)**  
**Music Department**  
**School of Arts & Humanities**  
**Peterson Fine Arts Building**

**Mission:** The mission of the Department of Music is to prepare students for musical careers, advanced study, and civic involvement, and to provide musical opportunities so that music will play a significant and rewarding role throughout their lives.

**Goals:** The goals of the Department of Music are:

- To prepare music students at the baccalaureate level for successful careers in education, performance, and music industry
- To prepare music students for graduate school
- To foster the development of musical talent
- To provide rich cultural and aesthetic musical experiences which contribute to the musical life of the college, community and region
- To support other institutional programs and activities

**Degrees Offered:** Students may pursue a Bachelor of Science or a Bachelor of Arts degree in music education. The Bachelor of Arts degree is required for performance, general music, and music industry programs.

Music Majors:

- Performance
- General Music
- Music Industry

Music Education Majors: Endorsements offered are listed below.

- Field endorsement: Vocal and Instrumental Music K-12
- K-12 instrumental music
- K-12 vocal music

Students completing the K-12 instrumental or K-12 vocal programs earn both the K-8 and 7-12 subject endorsements.

**Performing groups**

The performing groups at WSC are open to all students of the college. Interested students are encouraged to participate and should contact the director of the respective organization for further information. These organizations include the Choir, String Ensemble, Marching Band/Wind Ensemble, and small ensembles.

**Proficiencies and Requirements for Music Majors and Minors**

**1. Admission to music major programs**

Admission to Wayne State College does not automatically constitute admission to degree programs in music. Admission to music programs is completed by meeting the following criteria:

- a. Students must meet the piano, theory, and aural skills proficiencies (see item #4) in order to audition for 300-level applied lessons.
- b. Students must successfully perform a qualifying audition for 300-level applied lessons before a jury of music faculty one of whom is in the student's major performance area. The student must demonstrate, through performance of technical material (scales, rudiments, vocalises, etudes, etc.) and repertoire, a degree of facility

and musicality deemed sufficient to undertake advanced applied study. Each applied area has specific guidelines and requirements for the technical material and repertoire. See the Department of Music Student Handbook for these guidelines.

- c. Students must submit a written list of all repertoire studied and performed and a self-assessment report (see the student handbook for specific guidelines). The reports must be distributed to the faculty at least two weeks prior to the 300-level audition.

**2. Applied Music Study**

All prospective music majors and minors must declare an instrument or voice as the primary performing medium from one of the following: Voice, Keyboard, Flute, Oboe, Clarinet, Saxophone, Bassoon, Trumpet, French Horn, Trombone, Euphonium, Tuba, Percussion, Violin, Viola, Cello, and Double Bass. Students pursuing a music teaching endorsement must also declare a secondary performing medium. For the primary medium, the students will complete four semesters of lower-division applied study (100-level). At the end of the fourth semester, the student may apply for upper-division (300-level) study (see above). Until the student has passed the jury examination, continued enrollment at the 100-level is required. Applied music study includes at least one hour of participation per week in performance class in addition to the weekly lesson in the primary performance area. Small ensemble performance is an integral part of performance classes. Students are expected to arrive at lessons and performance classes with their assigned material fully prepared. It is expected that students will schedule daily practice time, as well as develop practice habits sufficient to accomplish this objective.

**3. Junior and Senior Recital Requirements**

The senior recital requirement applies to students pursuing degrees in Music Education or Music-Performance Emphasis. In the semester of the recital, the student will enroll in MUS 454, Senior Recital. Every student in these programs is required to present a senior recital in the primary performance medium. Students will be required to pass a jury examination at least six (6) weeks prior to the proposed recital date. This jury will be performed before a panel of at least three music faculty members, including, and selected with the help of the student's applied instructor. The student must be prepared to perform any portion of the recital repertoire requested by the faculty. Music-Performance Emphasis majors must also present a junior recital following the same jury requirements as the senior recital. Repertoire and program notes for the junior and senior recitals must demonstrate an understanding of the repertory and the ability to perform a cross-section of that repertory. Instrument-specific guidelines can also be found in the student handbook.

**4. Piano, Music Theory, and Aural Skills Proficiency-Requirements**

All music majors must meet the proficiency requirements for piano, music theory, and aural skills (course numbers MUS 101, 102, 104, 201, 202, 203, 204, 280, 281, 380,

and 381). This requirement may be met by examination or through successful completion of the courses appropriate to the student's degree program. Successful completion is defined as earning a "C" or better in the required courses. If a student earns a "C-" or lower in a required course, the student must repeat the course until earning a "C" or better. Music Education majors who successfully test out of one or more sections of Class in Piano will be required to fill those hours with electives, regardless of degree program. These electives must be courses at the 300-level or above and may not be applied lessons. Students pursuing the Music-Performance Emphasis degree who successfully test out of Class in Piano must successfully complete two semesters of private piano lessons.

**5. Minimum GPA Requirement for Graduation**

All music majors, regardless of degree program, must have a minimum GPA of 2.5 in order to graduate.

**6. Recital Attendance Policy**

Attendance at department-approved musical programs is required of all full-time music majors and minors enrolled in applied music courses. Attendance at these programs constitutes a part of the applied music grade. Therefore, all music majors and minors must enroll in Recital Attendance, MUS 130, each semester in which they are enrolled full-time, and in which they are enrolled in at least one applied music course (including MUS 150, but excluding MUS 454 Senior Recital). The criteria for satisfactory completion of this requirement are stated in the syllabus for MUS 130.

**7. Ensemble Credit and Requirements**

All music majors are required to participate in the large ensemble related to their primary performance medium – Marching Band/Wind Ensemble (MUS 142), String Ensemble (MUS 148), or Choir (MUS 141) – throughout their entire program, excluding the semester of Student Teaching. Because of the dual nature of the K-12 Field Endorsement, students in this degree program are required to participate in both instrumental and vocal ensembles. **The minimum ensemble requirements for students enrolled in the K-12 Field Endorsement program are:**

**1. Voice Primary**

- a. 5 semesters of choir (5 credit hours req.)
- b. 2 semesters of marching band/wind ensemble (2 credit hours req.)

**2. Winds and Percussion Primary**

- a. 5 semesters of marching band/wind ensemble (5 credit hours req.)
- b. 2 semesters of choir (2 credit hours req.)

**3. String Primary**

- a. 7 semesters of string ensemble (3.5 credit hours req.)
- b. 2 semesters of choir (2 credit hours req.)
- c. 2 semesters of marching band/wind ensemble (2 credit hours req.)

**4. Keyboard Primary (as determined by the student's secondary performing medium)**

a. Voice Secondary

- i. 5 semesters of choir (5 credit hours req.)

- ii. 2 semesters of marching band/wind ensemble (2 credit hours req.)

b. Wind or Percussion Secondary

- i. 5 semesters of marching band/wind ensemble (5 credit hours req.)

- ii. 2 semesters of choir (2 credit hours req.)

c. String Secondary

- i. 7 semesters of string ensemble (3.5 credit hours req.)

- ii. 2 semesters of choir (2 credit hours req.)

**8. Private Lesson Fees**

Each student enrolled in applied music lessons will be assessed a fee in addition to the tuition.

**9. Other Fees**

a. Instrument Rental:

Students wishing to check out WSC instruments may do so by filling out an Instrument Checkout Sheet and returning it to FA 109. A non-refundable fee is required each academic year, which covers the rental of one or more instruments owned by Wayne State College. All instruments must be returned at the end of the semester. Failure to do so will result in the holding of registration and transcripts, and the student will be charged the replacement cost of the instrument. If a student wishes to use the assigned instrument for another semester, another form must be completed for that semester.

b. Lockers:

Music students may rent lockers for their instruments and supplies, subject to availability. A non-refundable fee will be charged for usage of an appropriate locker, lock, and key. Interested students should see the Director of Bands.

**Music Majors**

**Core Courses required of all Music Majors (16 hours):**

**\*These courses are also listed under each individual program requirements and are identified by an asterisk (\*)**

MUS	101 Music Theory I .....	3
	102 Music Theory II .....	3
	104 Sight Singing and Ear Training I .....	1
	208 Fundamentals of Conducting .....	1
	305 Music Technology .....	1
	402 History and Literature of Music II .....	3
	Primary Applied Lessons 100-level .....	4

**K-12 Field Endorsement in Vocal and Instrumental Music Education (BS or BA) 60 hours**

MUS	*101 Music Theory I .....	3
	*102 Music Theory II .....	3
	*104 Aural Skills I .....	1
	150 Class in Voice I .....	1
	165 Class in Voice II (instrumentalists only) .....	1
	171 Class in Strings I .....	1
	172 Class in Strings II .....	1
	173 Class in Woodwinds I .....	1
	174 Class in Woodwinds II .....	1
	175 Class in Brass I .....	1
	176 Class in Brass II .....	1
	177 Class in Percussion .....	1
	178 Class in Guitar .....	1
	201 Music Theory III .....	3
	202 Music Theory IV .....	3

203 Aural Skills II .....	1
204 Aural Skills III .....	1
*208 Fundamentals of Conducting.....	1
280 Class in Piano I .....	1
281 Class in Piano II.....	1
303 Instrumentation.....	2
*305 Music Technology .....	1
306 Choral Conducting & Materials .....	2
307 Instrumental Conducting & Materials .....	2
380 Class in Piano III .....	1
381 Class in Piano IV .....	1
401 History & Lit of Music I.....	3
*402 History & Lit of Music II .....	3
454 Senior Recital .....	1
*Primary Applied Lessons 100-level.....	4
Primary Applied Lessons 300-level.....	2
Secondary Applied Lessons .....	2
Ensembles (MUS 141, 142, 148).....	7
Upper Level Music Electives (class, not lessons).....	1-5
Students who test out of any of the Class in Piano sequence will have 1-5 hours of electives. Those elective classes must be 300-level or above and may not be applied lessons.	
MUS 215, 308 and 309 must be taken as a part of the professional education requirements.	
<b>K-12 Vocal Music Education (BS or BA) 59 hours</b>	
Students completing this program will earn both the K-8 and 7-12 vocal music education subject endorsements.	
MUS *101 Music Theory I .....	3
*102 Music Theory II .....	3
*104 Aural Skills I.....	1
141 Choir .....	7
150 Class in Voice I.....	1
MUS 171, 172, 173, 174, 175, 176, 177(choose 2).....	2
178 Class in Guitar .....	1
201 Music Theory III.....	3
202 Music Theory IV.....	3
203 Aural Skills II .....	1
204 Aural Skills III .....	1
*208 Fundamentals of Conducting.....	1
280 Class in Piano I.....	1
281 Class in Piano II.....	1
301 Counterpoint .....	2
302 Form & Analysis.....	2
*305 Music Technology .....	1
306 Choral Conducting.....	2
310 Song and Choral Literature .....	2
320 Diction for Singers .....	2
380 Class in Piano III .....	1
381 Class in Piano IV .....	1
401 History & Lit of Music I.....	3
*402 History & Lit of Music II .....	3
423 Vocal Pedagogy & Literature.....	2
454 Senior Recital .....	1
*Primary Applied Lessons 100-level.....	4
Primary Applied Lessons 300-level.....	2
Secondary Applied Lessons .....	2
If voice is the primary applied medium, the sec-	

ondary applied must be keyboard; if keyboard is the primary applied, the secondary applied must be voice.

Upper-level Music Electives (class, not lessons)..... 0-4

Students who test out of any of the Class in Piano sequence will have 1-5 hours of electives. Those elective classes must be 300-level or above and may not be applied lessons.

MUS 215 and 308 must be taken as part of the professional education requirements.

**K-12 Instrumental Education (BS or BA) 59 hours**

Students completing this program will earn both the K-8 and 7-12 instrumental music education subject endorsements.

MUS *101 Music Theory I .....	3
*102 Music Theory II.....	3
*104 Aural Skills I.....	1
147 Jazz Ensemble .....	1
150 Class in Voice I.....	1
171 Class in Strings I.....	1
172 Class in Strings II .....	1
173 Class in Woodwinds I.....	1
174 Class in Woodwinds II.....	1
175 Class in Brass I.....	1
176 Class in Brass II.....	1
177 Class in Percussion .....	1
201 Music Theory III.....	3
202 Music Theory IV.....	3
203 Aural Skills II .....	1
204 Aural Skills III .....	1
*208 Fundamentals of Conducting.....	1
280 Class in Piano I.....	1
281 Class in Piano II.....	1
303 Instrumentation.....	2
*305 Music Technology .....	1
307 Instrumental Conducting & Materials .....	2
380 Class in Piano III .....	1
381 Class in Piano IV .....	1
401 History & Lit of Music I.....	3
*402 History & Lit of Music II .....	3
403 Instrument Repair .....	1
421 Jazz Ensemble Techniques .....	1
422 Marching Band Techniques .....	1
454 Senior Recital .....	1

\*Primary Applied Lessons 100-level.....4

Primary Applied Lessons 300-level.....2

Secondary Applied Lessons 100-level.....2

Ensembles (MUS 142, 148).....7

Upper-level Music Electives (class, not lessons)..... 0-4

Students who test out of any of the Class in Piano sequence will have 1-5 hours of electives. Those elective classes must be 300-level or above and may not be applied lessons.

MUS 309 must be taken as part of the professional education requirements.

**Music Majors (BA) 48-58 hours**

Students will choose an area of emphasis from the following:

**Performance Emphasis: 48-49 hours**

(48 hours for instrumentalists; 49 hours for vocalists)

MUS *101 Music Theory I .....	3
*102 Music Theory II.....	3
*104 Aural Skills I.....	1

201 Music Theory III.....	3
202 Music Theory IV.....	3
203 Aural Skills II .....	1
204 Aural Skills III .....	1
*208 Fundamentals of Conducting.....	1
280 Class in Piano I.....	1
281 Class in Piano II.....	1
302 Form and Analysis.....	2
*305 Music Technology .....	1
306 Choral Conducting and Materials <b>or</b>	
307 Instrumental Conducting and Materials .....	2
320 Diction for Singers (vocalists only).....	2
380 Class in Piano III .....	1
381 Class in Piano IV .....	1
401 History & Lit of Music I.....	3
*402 History & Lit of Music II .....	3
421 Jazz Ensemble Techniques (instrumentalists only).....	1
423-427 Pedagogy course in primary area .....	2
454 Senior Recital .....	1
*Primary Applied Music 100-level.....	4
Primary Applied Music 300-level.....	3
(One area - a junior recital is required as a part of Applied Lessons)	
Ensembles (MUS 141, 142, 148).....	6
<b>General Music Emphasis: 48 hours</b>	
MUS *101 Music Theory I .....	3
*102 Music Theory II.....	3
*104 Aural Skills I.....	1
201 Music Theory III.....	3
202 Music Theory IV.....	3
203 Aural Skills II .....	1
204 Aural Skills III .....	1
*208 Fundamentals of Conducting.....	1
280 Class in Piano I.....	1
281 Class in Piano II.....	1
301 Counterpoint.....	2
302 Form and Analysis.....	2
303 Instrumentation.....	2
*305 Music Technology .....	1
306 Choral Conducting and Materials <b>or</b>	
307 Instrumental Conducting and Materials .....	2
380 Class in Piano III .....	1
381 Class in Piano IV .....	1
401 History & Lit of Music I.....	3
*402 History & Lit of Music II .....	3
491 Special Project.....	3
*Primary Applied Lessons 100-level.....	4
Primary Applied lessons 300-level .....	2
Ensembles (MUS 141, 142, 148).....	3
Upper-level Music Electives (class, not lessons).....	1
<b>Music Industry Emphasis: 58 hours</b>	
This degree program is designed to give students a broad knowledge about careers in the music industry, including the operation of music stores, sheet music sales and production, musical equipment sales, and arts management.	
MUS *101 Music Theory I .....	3
*102 Music Theory II.....	3

*104 Sight Singing and Ear Training I.....	1
141 Choir .....	2
142 Marching Band/Wind Ensemble (one must be in fall semester) .....	2
150 Class in Voice I.....	1
Instrument methods courses .....	4
selected from the following (must be outside of the primary performance area): MUS 171,173, 175, 176, 177, 178	
Piano (Class or Applied by audition).....	2
*208 Fundamentals of Conducting.....	1
303 Instrumentation.....	2
*305 Music Technology .....	1
306 Choral Conducting & Materials <b>or</b>	
307 Instrumental Conducting & Materials .....	2
308 Teaching Vocal Music 7-12 <b>or</b>	
309 Teaching Instrumental Music .....	2
*402 History & Lit of Music II .....	3
*Primary Applied Lessons 100-level.....	4
Primary Applied Lessons 300-level.....	1
Ensemble Electives (Large or Small Ensembles) .....	2
Selected from the following: MUS 138, 139, 141, 142, 144, 145, 146, 147, 148	
<u>Music Industry Courses</u>	
MUS 304 Music Industry.....	3
403 Instrument Repair .....	1
410 Intro to Performing Arts Mgmt.....	3
497 Music Industry Internship.....	6
<u>Business Courses</u>	
BUS 240 Accounting I .....	3
370 Principles of Marketing.....	3
476 Retail Management.....	3
<b>Minor in Music: 21 hours</b>	
See proficiencies and requirements at the beginning of the music section.	
A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).	
MUS 101 Music Theory I .....	3
208 Fundamentals of Conducting.....	1
305 Music Technology .....	1
401 History & Lit of Music I <b>or</b>	
402 History & Lit of Music II .....	3
*Primary Applied Lessons (one area) 100-level.....	3
Primary Applied Lessons (one area) 300-level.....	1
Class in voice, piano, strings, brass, woodwinds or percussion (MUS 150, 165, 171, 172, 173, 174, 175, 176, 177, 178, 280, 281) .....	1
Ensembles (MUS 141, 142, 148).....	2
Upper-level Music Electives (class, not lessons).....	6
<b>Undergraduate Courses</b>	
MUS 101 Music Theory I (3) Fundamentals of pitch and rhythmic notation, intervals, scales, keys, and triads. Part-writing of diatonic triads and the dominant seventh in root position. Introduction to the diatonic modes. Sight-singing and computer-assisted ear training. (4 hours per week)	
MUS 102 Music Theory II (3) Prerequisite: MUS 101. Partwriting of root position chords and inversions, including the	

dominant seventh chord. Fundamentals of melody writing and harmonization, figured bass, and cadences. Continuation of sight-singing and computer-assisted ear training. (4 hours per week)

MUS 104 Aural Skills I (1) Prerequisite: MUS 101. Fundamentals of sight singing and ear training. Includes computer-assisted learning. (2 hours lab per week)

MUS 110 Topics in Music (3) An introduction to the nature of music and its essential role in human life and culture. Listening to music in a wide variety of styles for study and appreciation, with particular emphasis on a specific musical genre.

MUS 130 Recital Attendance (0) Attendance at departmental recitals and performances. Carries no credit. Music majors must enroll in this course concurrently with any applied music course (MUS 111-119, 121-128, 311-319, 321-328), or MUS 150.

MUS 138 Vocal Jazz Ensemble (.5) Rehearsal and performance of vocal jazz music.

MUS 139 Keyboard Ensemble (.5) Rehearsal and performance of piano music written for more than one performer.

MUS 141 Choir (1) Primary vocal ensemble of the music department. Rehearses and performs choral literature from all periods of history, and studies tone production, balance, blend, interpretation, and other principles of choral training. Public concerts given both on and off campus. Smaller ensembles selected from personnel of the choir for special performances. Open to all students by audition. (4 hours laboratory)

MUS 142 Marching Band/Wind Ensemble (1) Rehearses and performs standard and contemporary wind literature. The Marching Band is open to any WSC student and performs at athletic events and concerts. The Wind Ensemble commences after football season and requires an audition for admission. (4 hours laboratory)

MUS 143 Orchestra (1) Standard symphonic literature, practice in sight-reading, development of tone and technique. Public appearances by the group and smaller ensembles. Open to new students by permission of director only. (2 hours laboratory)

MUS 144 Madrigal Singers (.5) Co-requisite: Participation in MUS 141. A select vocal ensemble specializing in the performance of choral literature from the Medieval and Renaissance Periods, as well as vocal chamber music. In the fall, extra rehearsals are required to prepare Elizabethan Christmas Feasts given both on and off campus. Open to all students by audition; enrollment requires permission of the director. (3 hours laboratory)

MUS 145 Brass Ensemble (.5) Rehearsal and performance of brass music in a chamber music environment.

MUS 146 Woodwind Ensemble (.5) Rehearsal and performance of woodwind music in a chamber music environment.

MUS 147 Jazz Ensemble (.5) Rehearsal and performance of jazz music.

MUS 148 String Ensemble (.5) Rehearsal and performance of string music in a chamber music environment.

MUS 149 Symphonic Band (.5) Rehearses and performs a variety of wind literature. Open to all WSC students.

#### **Private Music Lessons**

Note: See statements under “**Proficiencies and Requirements for Music Majors and Minors**” for additional information concerning applied music.

Applied Lessons for music majors (chosen from courses listed below): (1; .5 during summer terms) Co-requisite: MUS 130 for music majors and minors. Upper-division requires instructor approval.

111, 311 Voice Lessons  
112, 312 Keyboard Lessons  
113, 313 Trumpet Lessons  
114, 314 Horn Lessons  
115, 315 Trombone Lessons  
116, 316 Euphonium Lessons  
117, 317 Tuba Lessons  
118, 318 Flute Lessons  
119, 319 Clarinet Lessons  
121, 321 Oboe Lessons  
122, 322 Bassoon Lessons  
123, 323 Saxophone Lessons  
124, 324 Violin Lessons  
125, 325 Viola Lessons  
126, 326 Cello Lessons  
127, 327 String Bass Lessons  
128, 328 Percussion Lessons

MUS 150 Class in Voice 1 (1) Co-requisite: MUS 130 for music majors and minors. Fundamentals of vocal technique for healthy and expressive singing; introduction to IPA; fundamentals of English and Italian diction. This course is taken as the first semester of voice study for primary voice students unless the student is placed in private lessons as the result of audition. (2 hours of lecture-laboratory)

MUS 165 Class in Voice II (1). A continuation of MUS 150 for students with primary applied areas other than voice. Intermediate technical studies, foreign language diction, and performance of standard vocal repertoire. Permission for private applied study in lieu of Voice Class II may be extended by permission of the instructor based on progress made in Class Voice I. (2 hours of lecture-laboratory)

MUS 171 Class in Strings I (1) A practical course in learning to play the string instruments of the orchestra. (2 hours lecture laboratory)

MUS 172 Class in Strings II (1) A continuation of MUS 171 but on a more advanced level. (2 hours lecture-laboratory)

- MUS 173 Class in Woodwinds I (1) Fundamental playing and teaching techniques and elementary methods and materials for each instrument. (2 hours lecture-laboratory)
- MUS 174 Class in Woodwinds II (1) Continuation of MUS 173. (2 hours lecture-laboratory)
- MUS 175 Class in Brass I (1) Methods, materials, and techniques for playing and teaching high brass instruments. (2 hours lecture-laboratory)
- MUS 176 Class in Brass II (1) Methods, materials, and techniques for playing and teaching low brass instruments. (2 hours lecture-laboratory)
- MUS 177 Class in Percussion (1) Fundamental playing and teaching techniques of the percussion instruments. (2 hours laboratory)
- MUS 178 Class in Guitar (1) Prerequisite: MUS 101 or permission of instructor. Fundamental playing techniques and application of the guitar to the classroom.
- MUS 201 Music Theory III (3) Prerequisite: MUS 102. Part-writing and harmonization using primary and secondary triads in root position and inversion. Melodic analysis. Secondary dominant, leading-tone and leading-tone seventh chords. Modulation to closely-related keys. Modal mixture. Continuation of sight-singing and computer-assisted ear training. (4 hours per week)
- MUS 202 Music Theory IV (3) Prerequisite: MUS 201. Part-writing and harmonization using augmented sixth, Neapolitan and ninth chords. Linear, chromatic, and third-relation harmony. Introduction to 20th century harmonic practices. Continuation of sight-singing and computer-assisted ear training. (4 hours per week)
- MUS 203 Aural Skills II (1) Prerequisite: MUS 102. Continued study of sight singing and ear training. Includes computer-assisted learning. (2 hours lab per week)
- MUS 204 Aural Skills III (1) Prerequisite: MUS 201. Continued study of sight singing and ear training. Includes computer-assisted learning. (2 hours lab per week)
- MUS 208 Fundamentals of Conducting (1) Prerequisites: MUS 101. Fundamental techniques of the physical movement of conducting and its process, including beat patterns, transposition and score reading.
- MUS 214 Music and Creative Processes in Education (2) Basic music literacy concepts and skills necessary for integrating music in the elementary classroom. Includes pedagogical methods and creative exploration involving listening, expressive movement, aesthetics, improvisation and performance using rhythm, verbal rhyming, singing and other musical skills which reinforce and enhance content in the elementary curriculum. (3 hours lecture laboratory)
- MUS 215 Teaching Vocal Music K-6 (2) A survey of philosophies, materials and pedagogical methods for teaching elementary music in the schools. Creative exploration of singing activities incorporating movement, improvisation, composition, and listening, and curriculum development. For music majors and minors and minor or by permission of the instructor. MUS 215 may also be substituted for MUS 214 for the elementary education major with permission of the instructor.
- MUS 280 Class in Piano I (1) Development of functional piano skills for the non-keyboard music major. Emphasis on keyboard theory and technique, sight reading, harmonization, improvisation, score reading, accompanying, and solo/ensemble repertoire. (2 hours of lecture-laboratory)
- MUS 281 Class in Piano II (1) Prerequisite: Grade of "C" or higher in MUS 280 or consent of instructor. Continued development of the skills begun in MUS 280. (2 hours of lecture-laboratory)
- MUS 301 Counterpoint (2) Prerequisite: MUS 202. Species counterpoint, imitative procedures, and an introduction to Renaissance and Baroque contrapuntal styles. Two-, three-, and four-part writing.
- MUS 302 Form and Analysis (2) Prerequisite: MUS 202. Study of form in music, beginning with motive and phrase, including binary and ternary designs, rondo, sonata, concerto, variations, and the polyphonic forms. Structural analysis of selected works from the Baroque to the 20th century.
- MUS 303 Instrumentation (2) Prerequisite: 3 hours of music theory. General considerations of ranges and performance. Characteristics of standard instrumentation as applied to transcribing and arranging for small and large ensembles.
- MUS 304 Music Industry (3) This course will explore and examine many of the diverse fields and career opportunities within the music industry, including information about musical instruments and accessories, printed materials, and music technology. Visitations will be made to retail outlets, repair facilities, and artistic organizations. The role of service to music education will be also be covered.
- MUS 305 Music Technology (1) Prerequisite: MUS 101. An introduction to music technology including composition/arranging software, music printing/publishing and computer assisted instruction. (2 hours lecture-laboratory)
- MUS 306 Choral Conducting and Materials (2) Prerequisite: MUS 208. Techniques and practical applications of conducting and rehearsing vocal ensembles, including rehearsal management, tone production, diction, and musical interpretation. Includes survey of materials for the school choir.
- MUS 307 Instrumental Conducting and Materials (2) Prerequisite: MUS 208. Techniques and practical applications of conducting and rehearsing instrumental ensembles.

Includes significant experience in literature, score studying, rehearsal techniques, transposition and interpretation. Students will rehearse and conduct a large instrumental ensemble.

MUS 308 Teaching Vocal Music 7-12 (2) Prerequisite: MUS 208. A survey of methods and materials used for teaching vocal music in junior high school and high school. Testing, classifying, and blending voices, materials for the glee club, chorus and ensembles, contests and public appearances, and problems of the changing voice, general music class, and sight singing. Meets computer literacy requirements.

MUS 309 Teaching Instrumental Music (2) Instruction in the structure, organization, management, and teaching techniques required of a K-12 instrumental music program.

MUS 310 Song and Choral Literature (3) General survey of solo vocal and choral literature. Emphasis given to major composers and standard repertoire together with influences from non-Western cultures.

MUS 320 Diction for Singers (2) Prerequisite: MUS 150. A study of foreign language diction.

MUS 380 Class in Piano III (1) Prerequisite: Grade of "C" or higher in MUS 281 or consent of instructor. Continued development of the skills begun in MUS 281. (2 hours lecture-laboratory)

MUS 381 Class in Piano IV (1) Prerequisite: Grade of "C" or higher in MUS 380 or consent of instructor. Continued development of the skills begun in MUS 380. (2 hours lecture-laboratory)

MUS 401 History and Literature of Music I (3) Music of ancient Greece and Rome, world music traditions, and Western music from the Middle Ages through the eighteenth century. Analysis of musical types and influential composers in each era.

MUS 402 History and Literature of Music II (3) Music of the nineteenth and twentieth centuries. Romanticism, Nationalism, Impressionism, Modernism, and postmodern musical techniques and styles. Analysis of the music of the most influential composers.

MUS 403 Instrument Repair (1) A laboratory course covering minor repair and techniques on brass and woodwind instruments. (2 hours laboratory)

MUS 405 Double Reed Making (2) A laboratory course covering the construction and adjustment of oboe and bassoon reeds.

MUS 410 Introduction to Performing Arts Management (3) An overview of the field of performing arts management. This course will provide a basic understanding of the role of a performing arts administrator through readings, class discussion, research projects, and class presentations. Topics such as career options, types of performing arts organi-

zations, and current issues in performing arts management will be discussed. Students will also reflect upon their career goals and begin working on interview, resume and professionalism skills.

MUS 421 Jazz Ensemble Techniques (1) Co-requisite: MUS 138 or 147. Instruction in the function and goals of a jazz ensemble program, including experience in jazz styles, history, improvisation, and curriculum design.

MUS 422 Marching Band Techniques (1) Prerequisite: 2 semesters of MUS 142. Co-requisite: MUS 142. Instruction in the function and goals of a marching band program as well as practical experience in organization, show design, music selection, and drill design.

MUS 423 Vocal Pedagogy and Literature (2) Prerequisite: MUS 150. The study of teaching voice.

MUS 424 Keyboard Pedagogy and Literature (2) The study of teaching keyboard, with primary focus on methods and materials for teaching beginning to intermediate students.

MUS 425 String Pedagogy and Literature (2) The study of teaching techniques and solo literature for string instruments.

MUS 426 Brass Pedagogy and Literature (2) The study of teaching techniques and solo literature for brass instruments.

MUS 427 Woodwind Pedagogy and Literature (2) The study of teaching techniques and solo literature for woodwind instruments.

MUS 444/544 Topics in Music Pedagogy and Literature (2) The study of teaching techniques and literature in instrumental and vocal performance. The performance area will depend on needs and interests of students and will be in one of the following areas: voice, keyboard, woodwinds, brass, percussion or strings. May be repeated for up to six hours credit with no content duplication.

MUS 454 Senior Recital (1) The presentation of a 30-minute senior recital in a student's primary performance medium. The student will enroll for this class instead of private applied lessons during the term in which the senior recital is given. The course may not be repeated for credit.

#### **Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

MUS 503 Music of the Baroque and Classical Periods (3) Music of the seventeenth, eighteenth, and early nineteenth centuries. Emphasis on J. S. Bach, Haydn, Mozart, and Beethoven, and on the development of the various vocal and instrumental forms of these periods.

MUS 505 Music of the 20th Century (3) A study of music of the 20th Century. Representative works of chamber music, vocal, instrumental, opera, symphony, and non-traditional forms.

- MUS 515 Choral Literature and Materials (3) A survey of literature and materials for choirs and vocal ensembles.
- MUS 516 Instrumental Literature and Materials (3) A survey of literature and materials for instrumental ensembles and bands and orchestras.
- MUS 524 Piano Pedagogy (3) The study of teaching techniques and solo literature for the piano.
- MUS 544 Topics in Music Pedagogy and Literature (2) See MUS 444.
- MUS 601 Advanced Choral Conducting (3) Advanced study of techniques required for conducting vocal ensembles and choirs. Includes rehearsal management and music interpretation.

MUS 602 Advanced Instrumental Conducting (3) Advanced study of techniques required for conducting instrumental ensembles and bands and orchestras. Includes rehearsal management and musical interpretation.

**Applied Music**

- MUS 651 Organ (2)
- MUS 653 Piano (2)
- MUS 655 Voice (2)
- MUS 657 Brass (2)
- MUS 659 Woodwind (2)
- MUS 661 Strings (2)
- MUS 663 Percussion (2)
- MUS 665 Master’s Recital (2) The recital will consist of at least 60 minutes of music.

**Natural Science (NAT)  
Physical Sciences & Mathematics Department  
School of Natural & Social Sciences  
Carhart Science Building**

The field endorsement in Natural Science will qualify the student to teach courses in General Science, Life Sciences, Physical Sciences, Chemistry, Physics, Biology and Earth Science for grades 7-12 in Nebraska.

In addition to General Education requirements, students must meet the computer literacy requirements of the Math and Sciences departments. NAT 112 Introduction to Personal Computers or any course with a CSC prefix meets this requirement.

**Field Endorsement in Natural Sci. (BA or BS) 66 hours**

Natural Science field endorsement students must complete MAT 130 Pre-Calculus Math (5) **or both** MAT 121 College Algebra (3) **and** MAT 122 Applied Trigonometry (1) to satisfy the Block 2 Mathematics General Education requirement.

Completion of a total of 66 hours of Biology, Chemistry, Earth Science, Physics to include:

BIO	110 Biology Concepts.....	4
	200 Zoology.....	4
	393 Biology Laboratory Techniques .....	1
CHE	106 General Chemistry I .....	4
	107 General Chemistry II .....	4
	393 Laboratory Techniques .....	1
EAS	110 Introduction to Meteorology.....	4
	120 Introduction to Geology .....	4
PHY	201 General Physics I.....	3
	202 General Physics II.....	3
	321 Physics Laboratory I.....	1
	322 Physics Laboratory II .....	1
	393 Physics Laboratory Techniques .....	1

BIO, CHE, EAS, PHY electives to combine with the above to total at least 24 hours in one area, 15 hours each in two other areas, and 12 hours in the fourth area .....31

A total of 24 cr hrs from all the above course work must be upper level.

EDU 409 Science Content Area Methods and Materials is

required. No additional endorsement is required for a Nebraska Teaching Certificate.

**Undergraduate Courses**

- NAT 112 Introduction to Personal Computers (1) A hands-on introduction to a variety of computer applications and services typically found on personal computers and the WSC computer network. Topics include operating system fundamentals, electronic mail, word processing, spreadsheets, presentation software and the Internet.
- NAT 280 Life Science for Elementary Education (3) Meets life science general education requirement of Elementary Education majors. Integrated biology and chemistry lecture/laboratory course for elementary education students and is not applicable to any major, minor or endorsement in any math or science area. Topics to include atomic structure and bonding, physical and chemical changes, energy transfer, origin of the universe and the life of stars, scientific method and problem solving, cell structure, evolution, multicellular organization, classification of living things, photosynthesis, respiration, reproduction, selected topics in biochemistry, genetics, botany, and microbiology, ecology and entomology. (2 hours of lecture and 2 hours of laboratory) Intended for Early Childhood Unified Education, Elementary Education, Middle Grades Education, and Special Education majors.
- NAT 281 Physical Science for Elementary Education (3) Meets the physical science general education requirement of Elementary Education majors. Integrated physics, earth science and astronomy lecture/laboratory course for elementary education students and is not applicable to any major, minor or endorsement in any math or science area. Topics to include force and motion, Newton’s laws and playground physics, space science and rocketry, sound and light, rocks, minerals, plate tectonics and geology of Nebraska, weather and currents, the Water cycle and pollution, and Internet for Science Educators. (2 hours of lecture and 2 hours of laboratory) Intended for Early Childhood Unified Education, Elementary Education, Middle Grades Education, and Special Education majors.

NAT 421 Scientific Communications (3) Analysis of common English words and technical terms in biology, chemistry, geology, and medicine that have derivation from Latin and Greek. Recommended for science and non-science majors and for all students in health-related areas.

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

NAT 521 Scientific Communication (3) Analysis of common

English words and technical terms in biology, chemistry, geology and medicine that have derivation from Latin and Greek. Students will complete their own lexicon and give a formal class presentation.

NAT 558 Field Studies in Natural History (3) On-site study of the geology, ecology, flora, and fauna of a selected site.

NAT 600 Current Science Topics (1) Can be repeated up to 4 credit hours.

**Philosophy (PHI)  
Language & Literature Department  
School of Arts & Humanities  
Humanities Building**

**Objectives:** The minor in Philosophy is designed to enrich students through an understanding of the views of the important philosophers of the past and to stimulate them to think critically about the basic philosophical questions confronting humans. A minor in philosophy will prepare the student for graduate level work and will be of value in any vocation that prizes the tradition of liberal arts studies.

**Minor in Philosophy: 18 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

PHI 101 Introduction to Philosophy .....	3
201 Origins of Western Philosophy <b>or</b>	
202 History of Modern Philosophy .....	3
300 Ethics and Values .....	3
310 Logic .....	3

Upper level electives by advisement.....6

The student may include up to 6 hours of Social Sciences selected from HIS 305, 310, POS 315 or other courses with philosophical content.

**Undergraduate Courses**

PHI 101 Introduction to Philosophy (3) A philosophical examination of fundamental human questions, conducted through reading and discussions concerning problems in knowledge, reality and value (ethics and aesthetics).

PHI 201 The Origins of Western Philosophy (3) Readings in the pre-Socrates, Plato, Aristotle, Plotinus, St. Augustine, St. Thomas Aquinas, and others.

PHI 202 History of Modern Philosophy (3) History and problems of philosophy from the later Renaissance to the 20th century, developed through readings in the major philosophers of each century.

PHI 208 Aesthetics (3) A survey of the major philosophical theories of art from ancient Greece to modern times, with examination of the standards proposed by each theory for evaluating works of art.

PHI 300 Ethics and Values (3) A general education ethics course intended to introduce students to philosophical reasoning about ethical issues. This course emphasizes understanding philosophical inquiry and argument, thinking critically about major ethical systems and the ideas of prominent philosophers, and applying philosophical perspectives and ethical principles to contemporary ethical issues.

PHI 310 Logic (3) An examination of the uses of language and the processes of deductive and inductive inference.

PHI 330 Philosophy of Religion (3) Consideration of the central philosophical problems presented by systems of religious belief. Possible topics include the nature and attributes of God, arguments for and against the existence of God, the problem of evil, faith and the need for evidence, miracles, and mystical experience. An understanding of the methods of philosophical inquiry and of the ideas of prominent philosophers will be emphasized.

PHI 335 Comparative Religion (3) A survey of the metaphysical, epistemological, ethical, and political tenets of the major world religions, including Hinduism, Buddhism, Judaism, Islam, and Christianity.

PHI 350 Topics in Philosophy (3) A course which focuses on areas or disciplines within Philosophy (examples Philosophy of Science, Existentialism, Philosophies of the Orient, Philosophy of Language, Special Topics in Metaphysics, Epistemology, or Ontology). May be taken more than once, so long as topics vary.

**Physical Education (PED)  
Health, Human Performance & Sport Department  
School of Natural & Social Sciences  
Rice Auditorium**

**Objectives:** The programs of study in this area are designed to provide students with opportunities to develop basic knowledge, understanding, and skills necessary for careers in health, physical education, recreation, athletics,

coaching, and sport management.

**Computer Literacy requirement:**

HHPS students must take PED 487.

**Field Endorsement in Health & Physical Education**

**K-12 (BA or BS) 52 hours**

PED 105 Anatomy & Physiology I .....	3
151 Intro to Health and Phys Education .....	2
171 Elem Sch Health & Phys Education .....	3

200 Intro to Motor Learning and Dev .....3  
 205 Anatomy & Physiology II.....3  
 207 Athletic Performance and Nutrition.....3  
 241 First Aid and CPR.....2  
 250 Strategies in Drug Education .....3  
 305 Exercise Physiology .....3  
 341 Org, Ad, Curr Dev of Sec Hlth,PE .....3  
 346 Org, Ad, Curr Dev of Elem Hlth,PE.....3  
 351 Biomechanics .....3  
 361 Met & Mat in Health and PE K-12.....3  
 381 Physical Education Practicum .....2  
 407 Motor Perceptn/Adaptives-Spel Pop .....3  
 470 Fitness Evaluation and Assessment .....3  
 471 Tests & Measurements.....3  
 Four hours from the following activity areas.....4  
 Any aquatic course (1), PED 111 Folk & Rec Dancing (1),  
 and 2 hours of activity classes.

EDU 409, Physical Education Content Area Methods and Materials must be taken as part of the professional education requirements.

**Subject Endorsement in Physical Education K-6 (BA or BS) 27 hours**

PED 105 Anatomy & Physiology I .....3  
 111 Folk and Recreational Dancing.....1  
 171 Elem Sch Health & Phys Ed.....3  
 200 Intro to Motor Learning & Dev .....3  
 229 Aerobic Dance .....1  
 241 First Aid and CPR.....2  
 304 Sport Physiology **or**  
 305 Exercise Physiology .....3  
 346 Org, Ad, Curr Dev of Elem Hlth,PE.....3  
 361 Met & Mat in Health and PE K-12.....3  
 381 Physical Education Practicum .....2  
 407 Motor Perceptn/Adaptives-Spel Pop .....3

EDU 409, Physical Education Content Area Methods and Materials must be taken as part of the professional education requirements.

**Subject Endorsement in Physical Education 7-12 (BA or BS) 30 hours**

PED 105 Anatomy & Physiology I .....3  
 205 Anatomy & Physiology II.....3  
 241 First Aid and CPR.....2  
 305 Exercise Physiology .....3  
 341 Org, Ad, Curr Dev of Sec Hlth,PE .....3  
 351 Biomechanics .....3  
 361 Meth & Mat in Health and PE K-12.....3  
 381 Physical Education Practicum .....2  
 407 Motor Perceptn/Adaptives-Spel Pop .....3

Activities: PED 111, any aquatic course,  
 and 3 activity courses.....5

EDU 409, Physical Education Content Area Methods and Materials must be taken as part of the professional education requirements.

**Major in Applied Human and Sport Physiology (BA or BS) 56-57 hours**

**Objectives:** This major provides students with a variety of educational experiences in sports medicine, physical science, and physical rehabilitation. The program of study is designed

to prepare students for graduate study/careers in athletic training, exercise physiology, biomechanics, kinesiology, cardiac rehabilitation, and, through advisement, may provide strong training for individuals who wish to work in health and fitness related professions.

**Students may not combine this major with a major in Exercise Science.**

Recommended preparation: Students considering this major should have a minimum of 1 year of biology, 1 year of chemistry, 3.0 high school GPA, and an ACT score of at least 25.

**A 2.75 cumulative GPA is required to graduate with this major.**

Applied Human and Sport Physiology majors must complete BIO 110 Biology Concepts (4), CHE 106 General Chemistry I (4), and MAT 180 Applied Probability and Statistics (3) to satisfy Block 2 of the General Education requirements, and PSY 101 General Psychology (3) to satisfy Block 3 of the General Education requirements.

**Major in Applied Human and Sport Physiology**

**Note: Following program enrollment, students are required to maintain a 2.75 cumulative GPA or higher to enroll in the following courses: PED 389, 400, 470, 471, and 495.**

BIO 220 Human Anatomy ..... 4  
 340 Human Physiology ..... 4  
 CHE 107 General Chemistry II ..... 4  
 HSC 345 CPR-Healthcare Provider **or**  
 PED 241 First Aid & CPR..... 1-2  
 PED 130 Introduction to Sports Medicine ..... 3  
 207 Athletic Performance and Nutrition..... 3  
 275 Prevent and Care of Athletic Injuries ..... 3  
 305 Exercise Physiology ..... 3  
 351 Biomechanics ..... 3  
 352 Musculoskeletal Eval and Mgmt ..... 3  
 357 Princ of Strength and Conditioning..... 3  
 389 Sports Medicine Practicum ..... 2  
 400 Cardiac Rehabilitation..... 3  
 470 Fitness Eval and Assessment ..... 3  
 471 Tests and Measurements ..... 3  
 472 Wellness Practicum I ..... 2  
 473 Wellness Practicum II ..... 2  
 495 Research Design in Sports Medicine..... 3

PHY 201/321 General Physics I + lab..... 4

Applied Human and Sport Physiology majors are encouraged to supplement their course work by choosing some of the following recommended general electives:

BIO 385 Microbiology ..... 4  
 486 Immunology ..... 2  
 CHE 208 Introductory Organic Chemistry..... 4  
 314 Organic Chemistry I ..... 4  
 315 Organic Chemistry II ..... 4  
 326 Biochemistry I ..... 4  
 PED 200 Intro to Motor Learning & Dev ..... 3  
 353 Rehab of Musculoskeletal Injuries ..... 2  
 386 Therapeutic Mod & Pharmacology ..... 2  
 PHY 202/322 General Physics II + lab ..... 4  
 PSY 450 Abnormal Psychology ..... 3

**Major in Exercise Science (BA or BS) 52 hours**  
*Students may not combine this major with a major in Applied Human and Sport Physiology.*

A student must meet the following requirements before being allowed to enter the Exercise Science Fieldwork program.

1. Complete all General Education requirements.
2. Completion of all Exercise Science Requirements.
3. Obtain a 3.0 or higher in PED 470.
4. Have a cumulative Grade Point of 2.5 or higher.

**Note: Students must maintain a 2.5 cumulative GPA to be eligible to enroll in PED 310, 400, 471, 472, 473, and 493.**

PED	105 Anatomy & Physiology I.....	3
	205 Anatomy & Physiology II.....	3
	207 Athletic Performance and Nutrition.....	3
	241 First Aid and CPR.....	2
	305 Exercise Physiology .....	3
	310 Leadership Development in Nutrition and Stress Management.....	3
	351 Biomechanics .....	3
	357 Princ. of Strength & Conditioning.....	3
	400 Cardiac Rehab .....	3
	411 Sport Marketing and Promotion <b>or</b>	
	464 Facility Mgt in Sport/Wellness.....	3
	470 Fitness Eval and Assessment.....	3
	471 Tests & Measurements.....	3
	472 Wellness Practicum I .....	2
	473 Wellness Practicum II.....	2
	493 Fieldwork in Exercise Science .....	12

Select one from the following activity courses:..... 1  
 PED 111, 220, 226, 227, 228, 229, or 231

Exercise Science Majors are encouraged to supplement their course work by adding BUS 142 Survey of Accounting or BUS 240 Accounting I, BUS 360 Management Theory and Practice, BUS 370 Principles of Marketing, CSL 202 Intro to Human Service Counseling, FCS 407 Nutritional Counseling and Assessment and PED 290 Stress Management in Wellness.

**Major in Sport Management (BA or BS) 56 hours**

A student must meet the following requirements before being allowed to enter the fieldwork program.

1. Complete all General Education requirements.
2. Completion of all Sport Management major courses.
3. Have a cumulative Grade Point of 2.50 or higher.
4. Earn a grade of 3.0 or better in PED 140 and 410.

**Note: Students must maintain a 2.5 cumulative GPA to be eligible to enroll in PED 385, 411, 450, 485, and 489.**

BUS	240 Accounting I .....	3
	360 Management Theory and Practice .....	3
	370 Principles of Marketing .....	3
GEO	325 Geog of Rec, Tourism, Sport.....	3
PED	140 Intro to Sport Management.....	3
	277 Sport Information Systems.....	3
	295 Sport Mgt Public Rel/Comm.....	3
	385 Sport Management Practicum .....	2
	390 Ethics in Sport Management .....	3
	405 Sport Business .....	3
	410 Sport Law .....	3
	411 Sport Marketing and Promotion .....	3
	450 Program Manage in Sport.....	3

	464 Facility Mgt in Sport/Wellness.....	3
	485 Sport in American Culture.....	3
	489 Fieldwork in Sport Management.....	12

**Minor or Endorsement to Coach: 18 hours**

A special endorsement available in addition to a field endorsement or 2 subject endorsements. A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

PED	105 Anatomy & Physiology I.....	3
	275 Prevent & Care of Athletic Injuries .....	3
	304 Sport Physiology <b>or</b>	
	305 Exercise Physiology .....	3
Plus 3 of the following courses:		
PED	311 Theory & Fund of Football Coach.....	3
	312 Theory & Fund of Basketball Coach.....	3
	313 Theory & Fund of Track Coaching.....	3
	314 Theory & Fund of Wrestling Coach .....	3
	315 Theory & Fund of Baseball Coach .....	3
	316 Theory & Fund of Softball Coach .....	3
	317 Theory & Fund of Volleyball Coach .....	3

Any student not majoring in physical education may also be required, by state certification agencies, to take PED 341 Organization, Administration, and Curriculum Development of Secondary Health and Physical Ed. (3).

**Minor in Exercise Science: 18 hours**

This minor is intended to give students in pre-professional, education, or sports management majors additional specialization in exercise science. A grade of B or better must be earned in PED 470 and a cumulative GPA of 2.5 or better is a prerequisite for PED 310, 400, 471, 472, and 473. A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

**Required Core: 15-17 hours**

PED	105/205 (or BIO 220/340) Hum Anat & Phys 6-8	
	305 Exercise Physiology .....	3
	351 Biomechanics .....	3
	470 Fitness Evaluation and Assessment.....	3

Choose at least 1 course from the following: 2-3 credits minimum to total at least 18 hours

FCS	407 Nutritional Counseling and Assessment (3)	
PED	207 Athletic Performance and Nutrition (3)	
	275 Prevention & Care of Athletic Injuries (3)	
	310 Leadership Development in Nutrition & Stress Management (3)	
	357 Principles of Strength and Conditioning (3)	
	389 Sports Medicine Practicum (2)	
	400 Cardiac Rehabilitation (3)	
	471 Tests and Measurements (3)	
	472 Wellness Practicum I (2)	
	473 Wellness Practicum II (2)	

**Minor in Sport Management: 20 hours**

This minor is offered for students interested in sport management as a support area for other majors such as Business, Communications, or Field Endorsements in Teaching areas. Students desiring to be high school athletic directors may wish to add this minor to the subject endorsements or field endorsement. A 3.0 is required in PED 140 and 410 and a cumulative GPA of 2.5 of better is a prerequisite for PED 385,

411, 450 and 485. A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

PED 140 Intro to Sport Management.....	3
277 Sport Information Systems.....	3
385 Sport Management Practicum.....	2
410 Sport Law.....	3
411 Sport Marketing and Promotion.....	3
450 Program Manage in Sport.....	3
485 Sport in American Culture.....	3

**Undergraduate Courses**

PED 103 Lifestyle Assessment (2) A course designed to assess the many areas of lifestyle to include cardiovascular flexibility and strength, nutrition, stress, risk factors, alcohol, drugs, and tobacco. The course will encourage regular physical activity and all other activities and consumptions that contribute to a high quality lifestyle, including medical self-care and appropriate use of the medical system. This course is a prerequisite for PED 203 and all activity courses.

PED 105 Anatomy & Physiology I (3). An introduction to the physiological processes and anatomical features of the body which are related to and affected by physical activity and training. Systems include the integumentary, skeletal and muscular. PED 105 is a prerequisite for PED 205, 275, 351, and 352.

PED 106 Weight Control (1) A course designed for an increased awareness of the essential components of weight management. Emphasis on nutrition, fitness and lifestyle changes to improve students general well being. Will combine with PED 103 to fulfill the Gen Ed Requirements.

PED 111 Folk and Recreational Dancing (1) An individualized prescribed fitness activity course based on the assessment results in PED 103. Teaching skills and techniques used in executing all basic steps for folk dances, social dances, and square dances as applied to elementary and secondary groups and recreational groups. Will combine with PED 103 to fulfill the Gen Ed Requirements.

PED 122 Squad Participation (1) Credit for student-athlete participation in athletics. Regular attendance and participation is required in all activities of an intercollegiate team. Must be a student-athlete to enroll. Course may be repeated for a maximum of two (2) credit hours. Instructor signature required.

PED 130 Introduction to Sports Medicine (3) An introduction to the disciplines within Sports Medicine including the historical background, terminology, technology, professional associations, and career opportunities. This course will include up to 10 hours of out-of-class job shadowing experience.

PED 131 Introductory Swimming (1) For non-swimmers who wish to learn how to swim. Will combine with PED 103 to fulfill the Gen Ed Requirements.

PED 140 Introduction to Sport Management (3) A study of the history and philosophy of sport including the emergence of the field of sport management. Surveys of the sub-fields of sport psychology, sociology of sport, sport marketing and promotion, economics of sport, sport media, professional sport and collegiate sport are investigated along with a strong emphasis of ethics in sport. A 3.0 is required in this course for the major and minor in Sport Management.

PED 151 Introduction to Health and Physical Education (2) A study of the foundations and philosophies of Health and Physical Education with a review of the history and principles of each.

PED 171 Elementary School Health and Physical Education (3) Identification, practice, and presentation of movement education, fundamentals, and specialized skills as they relate to the needs and characteristics of elementary age children. Includes the study of fitness, games, rhythms, manipulative activities, apparatus, stunts and tumbling, and sport-related skills appropriate to K-6.

PED 200 Introduction to Motor Learning and Development (3) A study of the physical, mental, and emotional factors that affect normal growth and development, and of the physiological and psychological factors that are related to the acquisition of motor skills. Special consideration is given to the teacher/coach's role in facilitating motor learning.

PED 203 Lifestyle Management (1) An individualized prescribed fitness activity course based on the assessment results in PED 103. Special sections will be offered for adapted students, students with special control problems, and students who desire to establish an individualized personal fitness program. Students may also meet this requirement by electing to enroll in advanced skill activity courses, to include PED 220 through 230.

PED 205 Anatomy & Physiology II (3) Prerequisite: PED 105. A continuation of the study of the physiological processes and anatomical features of the body which are related to and affected by physical activity and training. Systems include the nervous, endocrine, cardiovascular, and respiratory. the study of metabolic and renal physiology will be addressed in the context of these systems.

PED 207 Athletic Performance and Nutrition (3) This course will enable the student to attain a better understanding of the dynamic relationship between nutrition and human physiological processes akin to athletics and exercise.

PED 220 Fitness and Recreation Activities: Variable Topics (1) A variety of activities will be offered as announced in the registration bulletins. This course will combine with PED 103 to meet the Gen Ed Requirements, and may be repeated for up to six (6) credits.

PED 221 Golf and Volleyball (1) Skills, techniques, and game strategies; unit and lesson planning and principles of

teaching will be provided for majors. Will combine with PED 103 to fulfill the Gen Ed Requirements.

PED 224 Fitness and Pickle-Ball (1) Skills, techniques, and game strategies; unit and lesson planning and principles of teaching will be provided for majors. Will combine with PED 103 to fulfill the Gen Ed Requirements.

PED 226 Training for Agility and Sports Performance (1) A course designed for the improvement of agility, speed, power and strength. Training includes sprint training, plyometrics, resistance training and other current training strategies. This course is intended for students seeking training for pre-employment physical performance tests, or students wishing to improve sports performance. Will combine with PED 103 to fulfill the Gen Ed Requirements.

PED 227 Weight Training (1) Fundamental skills in the use of free weights and weight machines and the techniques for developing strength and fitness will be provided for majors. Will combine with PED 103 to fulfill the Gen Ed Requirements.

PED 228 Aquacising and Water Games (1) Skills and progressive steps for water fitness and water games; unit and lesson planning and principles of teaching will be provided for majors. Will combine with PED 103 to fulfill the Gen Ed Requirements.

PED 229 Aerobic Dance (1) Principles and activities for the development of lifetime fitness and skills; unit and lesson planning, principles of teaching will be provided for majors. Will combine with PED 103 to fulfill the Gen Ed Requirements.

PED 230 Tennis and Racquetball (1) Skills, techniques, and game strategies; unit and lesson planning and principles of teaching will be provided for majors. Will combine with PED 103 to fulfill the Gen Ed Requirements.

PED 231 Advanced Swimming (1) Progressive steps in the techniques of swimming with emphasis on skill mastery, diving, water survival, water games and synchronized swimming. Will combine with PED 103 to fulfill the Gen Ed Requirements.

PED 241 First Aid and CPR (2) Designed to assist teachers, coaches, and recreation personnel by providing them knowledge and skill in administering immediate temporary treatment in the case of an accident or sudden illness before the services of a physician are available.

PED 250 Strategies in Drug Education (3) This course is intended for preparation to teach drug education to K-12 students, as a part of a health education curriculum. The course will discuss lesson planning, methods of instruction, and methods of assessment to be used in drug education. In order to broaden the knowledge base of the student, the actions, effects, and social roles of legal and illegal drugs

will be examined. In addition, trends in drug prevention programs will be explored.

PED 275 Prevention and Care of Athletic Injuries (3) Prerequisite: PED 105 or BIO 220. Emphasis on prevention, evaluation, and treatment of common athletic injuries. Included is a survey of modalities, performance aids, and protective equipment.

PED 277 Sport Information Systems (3) An examination of the role of the sport information department in relation to the media, coaches, athletes, and society. Course will focus on oral and written communication, statistics, and ethical dilemmas. Case studies and current events will be stressed.

PED 290 Stress Management in Wellness (3) Combines theory with practical application of skills to manage stress and promote wellness. Areas include, but are not limited to: history of stress, assessment of stress symptoms, causes and costs of stress, coping responses to enhance wellness, and application of coping strategies to life situations.

PED 295 Sport Management Public Relations and Communications (3) Prerequisite: PED 277. Studies the nature and function of communication and public relations in sport management. Emphasis on personnel, time and conflict management, mass media relations, interviewing, technology, and the use of computers in the sport industry.

PED 304 Sport Physiology (3) Prerequisite: PED 105 Anatomy and Physiology I. A study of human athletic performance physiology applicable to coaching. Physiological concepts related to sports performance including training methods and nutrition for athletes. For students taking a minor or endorsement to coach.

PED 305 Exercise Physiology (3) Prerequisites: PED 105, 205. A study of the major physiological systems and their response to exercise for Physical Education K-12, K-6, 7-12, and Wellness majors and students in these areas also taking Coaching minor or Endorsement. This includes the application of physiological concepts to physical training.

PED 310 Leadership Development in Nutrition and Stress Management (3) Prerequisites: 2.5 cumulative GPA. This course will develop and enhance professionalism and leadership skills while focusing on nutrition and stress management topics. Students will gain knowledge and experience in conducting effective educational sessions for individuals interested in implementing lifestyle changes. Students will also develop leadership skills by designing and delivering presentations and interactive activities essential in workplace wellness settings.

PED 311 Theory & Fundamentals of Football Coaching (3) Prerequisite: Sophomore Standing (30 hours completed). Fundamental skills, theories, philosophies, methods, and organizational skills related to football coaching.

PED 312 Theory & Fundamentals of Basketball Coaching (3)  
Prerequisite: Sophomore Standing (30 hours completed).  
Fundamental skills, theories, philosophies, methods, and organizational skills related to basketball coaching.

PED 313 Theory & Fundamentals of Track Coaching (3)  
Prerequisite: Sophomore Standing (30 hours completed).  
Fundamental skills, theories, philosophies, methods, and organizational skills related to track coaching.

PED 314 Theory & Fundamentals of Wrestling Coaching (3)  
Prerequisite: Sophomore Standing (30 hours completed).  
Fundamental skills, theories, philosophies, methods, and organizational skills related to wrestling coaching.

PED 315 Theory & Fundamentals of Baseball Coaching (3)  
Prerequisite: Sophomore Standing (30 hours completed).  
Fundamental skills, theories, philosophies, methods, and organizational skills related to baseball coaching.

PED 316 Theory & Fundamentals of Softball Coaching (3)  
Prerequisite: Sophomore Standing (30 hours completed).  
Fundamental skills, theories, philosophies, methods, and organizational skills related to softball coaching.

PED 317 Theory & Fundamentals of Volleyball Coaching (3)  
Prerequisite: Sophomore Standing (30 hours completed).  
Fundamental skills, theories, philosophies, methods, and organizational skills related to volleyball coaching.

PED 341 Organization, Administration, and Curriculum  
Development of Secondary Health and Physical Education  
(3) Utilization of the philosophy, aims, and objectives of Health and Physical Education in developing programs and curricula for secondary school health and physical education.

PED 346 Organization, Administration, and Curriculum  
Development of Elementary Health and Physical Education  
(3) Prerequisites: PED 151, PED 171. Utilization of the philosophy, aims, and objectives of Health and Physical Education in developing programs and curricula in elementary school health and physical education. To include supervised experiences in public school programs.

PED 351 Biomechanics (3) Prerequisite: PED 105 or BIO 220.  
A kinesiological approach to the anatomical and mechanical analysis of human movement. Movement terminology as well as muscular and neuro-muscular function in sport will be studied. Special emphasis will be placed relating biomechanics to movement evaluation in K-12 health and physical education.

PED 352 Musculoskeletal Evaluation and Management  
(3) Prerequisites: PED 105 or BIO 220 and PED 275.  
Emphasis on musculoskeletal evaluation and management. To include structural and postural anomalies and injuries.

PED 353 Rehabilitation of Musculoskeletal Injuries (2)  
Prerequisite: PED 352. Development of a complete rehabilitation program for a variety of populations following injury/surgery. Course will focus on use of common therapeutic exercise equipment and manual techniques.

PED 357 Principles of Strength and Conditioning (3)  
Prerequisites: PED 304 or 305. Designed to provide students with theoretical and practical knowledge of the physiological, biomechanical, and administrative aspects of designing and supervising strength and conditioning programs for various populations.

PED 361 Methods and Materials in Health and PE (3) A study of methods and materials for teaching health and physical education. Special emphasis will be placed on aims, principles, philosophies and organization.

PED 381 Physical Education Practicum (2) Prerequisites: Consent of department chair, PED 361. Organization, presentation, and evaluation of health and physical education activity units. May be repeated.

PED 385 Sport Management Practicum (2) Prerequisites: PED 277, a 2.5 cumulative GPA, and consent of the program coordinator or department chair. Organization and management of information, internal workings and services offered through an approved sports information or management entity. May be repeated.

PED 386 Therapeutic Modalities and Pharmacology  
(2) Prerequisite: PED 352. Safe and proper use of rehabilitative modalities including ultrasound, TENS, electrical stimulation and massage therapy. Knowledge of the use of prescription and over-the-counter drugs in the treatment of musculoskeletal injuries.

PED 389 Sports Medicine Practicum (2) Prerequisite: PED 352 and a 2.75 cumulative GPA. A practical course designed to expose majors to training in musculoskeletal evaluation, management, and rehabilitation. PED 389 may be repeated up to a maximum 6 credits by advisement.

PED 390 Ethics in Sport Management (3) Prerequisite: junior standing. A study of ethical procedures and behaviors in sport management. Emphasis on the areas of academic counseling of student-athletes, diversity, stereotypes, media, athletes as role models, career development, and developing the overall benefits of athletics.

PED 400/500 Cardiac Rehabilitation (3) Prerequisites: PED 105, 205, and a 2.5 (2.75 for Applied Human and Sport Physiology majors) cumulative GPA. A course designed to provide the student the theoretical knowledge and practical background in administering an adult fitness program as well as all phases of cardiac rehabilitation. The student will develop knowledge and skills in cardiovascular physiology, ECG interpretation, basic pharmacology and exercise

- programming for apparently healthy individuals as well as diabetics, obese, pulmonary and cardiac patients.
- PED 405 Sport Business (3) A study of finance and economics in sport including budget development and management, funding, capital improvements, supply and demand trends, and economic impact of sport and leisure events.
- PED 407/507 Motor Perception and Adaptives for Special Populations (3) The study of the processes identification, evaluation, and remediation of the children with mild to moderate structural, developmental and perceptual motor problems. Also designed to study techniques in adapting health and physical education curriculum needs of special populations.
- PED 410 Sport Law (3) Shows the impact of the legal process on sport. Collective bargaining agreements, agent representatives, liability concerns, control of amateur, professional and school sport, risk management. A 3.0 is required in this course for the major and minor in Sport Management.
- PED 411 Sport Marketing and Promotion (3) Prerequisites: a 2.5 cumulative GPA. The economic, social, and political forces that affect sport. Analysis of successful and unsuccessful marketing campaigns. Integration of the elements of marketing segmentation, product, price and communication into sport marketing.
- PED 450 Program Management in Sport (3) Prerequisite: a 2.5 cumulative GPA. An overview of the total management responsibilities in sport and leisure service organizations. Program philosophy and development, personnel management, leadership, strategic management, public relations, and technology in sport receive specific attention.
- PED 464/564 Facility Management in Sport and Wellness (3) This course is designed to introduce students to the fundamentals of conducting needs assessments, planning, constructing, equipping, staffing, programming, and managing facilities in sport, and wellness.
- PED 470/570 Fitness Evaluation and Assessment (3) Prerequisites: PED 105, 205, 305. An introduction to the techniques of evaluation and assessment of human needs, interests and performance in the wellness field. A "B" grade is required for the Exercise Science majors.
- PED 471/571 Tests and Measurements (3) Prerequisite: a 2.5 (2.75 for Applied Human and Sport Physiology majors) cumulative GPA. A study of tests used to determine motor ability, motor capacity, cardiovascular endurance, and body mechanics. Test diagnosis and construction; interpreting and using test results.
- PED 472 Wellness Practicum I (2) Prerequisite: PED 470 and a 2.5 cumulative GPA. A course designed to extend student skill in exercise testing, fitness assessment, exercise prescription and experimental exercise science. May be repeated after both PED 472 and 473 have been completed.
- PED 473 Wellness Practicum II (2) Prerequisite: PED 472 and a 2.5 cumulative GPA. This course will provide students opportunity to lead and develop wellness programs, adult fitness classes and provide personal training consultation. May be repeated after both PED 472 and 473 have been completed.
- PED 485/585 Sport in American Culture (3) Prerequisite: a 2.5 cumulative GPA. The course is a study of sport and the ways in which it influences people in America.
- PED 487/587 Computer Applications in HHPS (3) A course designed to provide the student with skills and technical knowledge required for desktop publishing, multimedia presentations, World Wide Web Page production and incorporating Internet sources into presentations. Includes a variety of software and hardware to produce graphics, text documents and page formatting programs. New techniques and software are updated to match requirements within the field. Meets the computer requirement for all HHPS majors.
- PED 489/589 Fieldwork in Sport Management (1-12/1-9) Prerequisite: a 2.5 cumulative GPA for undergraduate students. A supervised field-based experience to familiarize the student with the conditions, practices, and environmental settings where the aspired vocational roles are conducted. Students, with the help of their advisor, must find an internship site. The site must be approved by the student's advisor and department chair.
- PED 493/593 Fieldwork in Exercise Science (1-12/1-9) Prerequisite: a 2.5 cumulative GPA for undergraduate students. A supervised field-based experience to familiarize the student with the conditions, practices, and environmental settings where the aspired vocational roles are conducted. Students, with the help of their advisor, must find an internship site. The site must be approved by the student's advisor and department chair.
- PED 495 Research Design in Sports Medicine (3) Prerequisites: PED 389 and 471 and a cumulative GPA of at least 2.75. Designed to promote an understanding of the theory, skills, methodology, and processes involved in designing, conducting, analyzing, and disseminating a sports medicine research project.
- Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**
- PED 500 Cardiac Rehabilitation (3) See PED 400
- PED 507 Motor Perception and Adaptives for Special Populations (3) See PED 407
- PED 551 Advanced Exercise Physiology (3) Prerequisite: PED 305. The advanced study of physiological adaptations encountered by the human body as it reacts to exercise, physical training and conditioning.

- PED 564 Facility Management in Sport, & Wellness (3) See PED 464
- PED 570 Fitness Evaluation & Assess (3) See PED 470
- PED 571 Tests and Measurements (3) See PED 471
- PED 585 Sport in American Culture (3) See PED 485
- PED 587 Computer App. in HHPS (3) See PED 487
- PED 589 Fieldwork in Sport Management (1-9) See PED 489
- PED 593 Fieldwork in Exercise Science (1-9) See PED 493
- PED 605 The Economy of Sport (3) Examines how sport business leaders give attention to the application of the financial methods and procedures necessary to be successful within the business of intercollegiate, Olympic, and professional sport. Focus is on understanding the development and management of ownership, league structure, media licensed sport merchandise, athletic compensation, niche sports, gender equity/reform, diversity, ethics, ticket and concession sales. Examines financial challenges related to current and future sources of revenue for the sport enterprise.
- PED 610 Legal Aspects of Sport (3) This course explores the legal principles and rules of law affecting the administration of recreation, sports and athletic programs. Emphasis on risk management theory, safety principles, insurance concepts, and liability issues. Litigation trends identified and procedures outlined to minimize legal risks.
- PED 612 Advanced Sport Marketing and Promotion (3) Examination of the concepts and principles of marketing and promotion as applied to the unique aspects of sport within intercollegiate athletics, professional sport, and global opportunities that exist. Marketing and promotional topics include strategies, decision making, marketing mix, and implementation/control of the sport marketing process. Students develop marketing and promotional strategies that can be applied to real-life sport opportunities.

- PED 615 Advanced Clinical Exercise Physiology (3) Prerequisites: PED 305 or 551, 400/500. The study of the physiological principles and clinical applications associated with a wide range of diseases and disabilities. Topics will include advanced study and application of exercise physiology and cardiovascular, metabolic, and musculoskeletal disorders. Specific topics may vary according to student interests and background.
- PED 622 Statistical Applications and Data Analysis (3) A course in statistics designed to provide an introduction to statistical measures. Application to research problems in various disciplines will be emphasized. Computer applications using common statistical software will be utilized to analyze data sets. Statistical Applications and Data Analysis has a variable prefix (EDU, PED, SSC, . . .). Depending on the prefix, the course will be taught by content or educational faculty.
- PED 631 Seminar in Sport Management (3) This course will cover the following topics: sport ethics, sport journalism, sport accounting and practices, sport management computer applications, personal selling, funding strategies, public and media relations.
- PED 653 Program Management and the Transition of Sport (3) This course examines how managing relationships can become more important than performing tasks as managers of sport. This examination includes but is not limited to: building business strategies/organizational structure, customer/customer service, branding, employee relations, building alliances, crisis management, globalization, repositioning business, leadership. The course addresses contemporary problems and issues that are sport specific.
- PED 671 Recent Literature and Research in Education and HHPS (3) Review of pertinent literature in selected areas to include topics in education, physical education, exercise science, sport management, and other relevant disciplines.

**Physical Sciences (PHS)  
Physical Sciences & Mathematics Department  
School of Natural & Social Sciences  
Carhart Science Building**

The field endorsement in Physical Sciences will qualify the student to teach courses in physical science, chemistry, physics and earth science for grades 7-12.

In addition to General Education requirements, students must meet the computer literacy requirements of the Math and Sciences departments. NAT 112 Introduction to Personal Computers or any course with a CSC prefix meets this requirement.

**Field Endorsement in Physical Sciences  
(BA or BS) 56 hours**

MAT 130 Pre-Calculus Math (5) **or both** MAT 121 College Algebra (3) **and** MAT 122 Applied Trigonometry

(1) must be taken as the Mathematics General Education requirement.

BIO	110 Biology Concepts.....	4
	200 Zoology.....	4
CHE	106 General Chemistry I .....	4
	107 General Chemistry II .....	4
	208 Intro Organic Chem <b>or</b>	
	314 Organic Chem I .....	4
	393 Laboratory Techniques .....	1
EAS	110 Introduction to Meteorology.....	4
	120 Introduction to Geology .....	4
PHY	201 General Physics I.....	3
	202 General Physics II.....	3
	321 Physics Laboratory I.....	1
	322 Physics Laboratory II .....	1
	393 Laboratory Techniques .....	1

CHE, EAS, PHY upper level electives to combine with the above to total at least 18 hours in one area, 15 hours in the second area and 12 hours in the third.....15

Choose the remaining upper level electives from BIO, CHE, EAS, NAT, PHY.....3

EDU 409 Science Content Area Methods and Materials is required. No additional endorsement is required for a Nebraska Teaching Certificate.

### Physics (PHY)

#### Physical Sciences & Mathematics Department School of Natural & Social Sciences Carhart Science Building

**Objectives:** The courses in Physics are designed for those students who (1) plan to pursue further work in the field of physics, (2) plan to apply physics in the pre-professional program, (3) plan to teach physics in an academic setting, (4) have the intellectual curiosity to know and understand the physical world around them. Emphasis is placed upon the concepts of physical principles and how they interact with each other in the real world.

#### Minor in Physics: 21 hours

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

PHY 201 General Physics I <b>or</b>	
301 University Physics I.....	3-4
202 General Physics II <b>or</b>	
302 University Physics II.....	3-4
321 Physics Laboratory I.....	1
322 Physics Laboratory II.....	1

Upper-level Physics electives selected by advisement to total 21 hours .....11-13

#### Undergraduate Courses

PHY 115 Professionalism in Science (2) A course presenting professional issues pertinent to engineers and scientists along with an overview of the various engineering and science disciplines. A course intended primarily for pre-engineers. Case studies based upon actual technical problems will be presented by practicing engineers and scientists.

PHY 201 General Physics I (3) Prerequisite: 2 years of algebra. An algebra-based general physics course intended primarily for health professions, life science and education students. Topics include vectors, kinematics and dynamics, equilibrium, rotational motion, energy, momentum, oscillations, fluids, and thermodynamics. PHY 321 required.

PHY 202 General Physics II (3) Prerequisite: PHY 201 or 301. A second semester algebra-based general physics course intended primarily for health professions, life science, and education students. Topics include electricity, magnetism, optics, and modern physics. PHY 322 required.

PHY 209 General Physics I Recitation (1) Concurrent

#### Undergraduate Courses

PHS 102 Physical Science Today (3) Selected topics of physics, chemistry, and earth science to be presented by the laboratory-oriented approach, and in compliance with the requirements of General Education. Does not apply to any major, minor, or endorsement in any science area (BIO, CHE, EAS,NAT, PHS, PHY) unless specified. (4 hours lecture-lab combined)

enrollment in PHY 201. A complementary course for PHY 201 that focuses on mathematics review and physics studying, exam-taking, and problem-solving techniques.

PHY 210 General Physics II Recitation (1) Concurrent enrollment in PHY 202. A complementary course for PHY 202 that focuses on mathematics review and physics studying, exam-taking, and problem-solving techniques.

PHY 214 Applied Statics (3) Prerequisites: MAT 140, PHY 301. The study of rigid bodies in static equilibrium. A course intended primarily for pre-engineers. Topics include static equilibrium, couples, two- and three-dimensional force systems, trusses, frames and machines, friction, centroids, and moments of inertia.

PHY 215 Applied Dynamics (3) Prerequisites: PHY 214, PHY 302. Newton's laws of motion are applied to particles and rigid bodies. A course intended primarily for pre-engineers. Topics include absolute and relative motion, forces, acceleration, work and energy, momentum, torque, and angular momentum.

PHY 301 University Physics I (4) Prerequisites: High school physics and MAT 140 or equivalent calculus class. A calculus-based general physics course intended primarily for scientists, pre-engineers, computer and math majors and advanced health professional students. Topics include vectors, kinematics and dynamics, equilibrium, rotational motion, energy, momentum, oscillations, fluids, and thermodynamics. PHY 321 required.

PHY 302 University Physics II (4) Prerequisite: PHY 301. A second semester calculus-based general physics course intended primarily for scientists, pre-engineers, computer and math majors, and advanced health professional students. Topics include electricity, magnetism, optics, and modern physics. PHY 322 concurrent enrollment by advisement.

PHY 321 Physics Laboratory I (1) Concurrent enrollment in PHY 201/301 recommended but not required. This laboratory is a required course for both PHY 201 and PHY 301. Experiments, appropriate to the level of lecture, include topics in mechanics, momentum, work and energy, and fluids. (3 hrs lab).

PHY 322 Physics Laboratory II (1) This laboratory is a required course for PHY 202, but may be taken in a subsequent semester. It is optional for PHY 302, depending

on the student's program. Experiments, appropriate to the level of the lecture, include topics in electricity, magnetism, and basic optics (3 hrs lab).

**PHY 326 Electronics (3)** An introduction to fundamental principles in electronics. Topics include components of electronic circuits, circuit analysis, analog and digital circuits, and electrical safety. (4 hours of lecture-lab combined).

**PHY 336 Classical Mechanics (3)** Prerequisite: 1 year of Physics. An upper level course in classical mechanics. Topics include a vector language description of motion, dynamics of a particle, mechanical energy, periodic motion, systems of interacting particles, dynamics of a rigid body and Lagrangian dynamics.

**PHY 345 Thermodynamics (3)** Prerequisite: 1 year of Physics. An upper level course in thermodynamics. Topics include energy conservation, the first and second laws of thermodynamics, energy and entropy, work and heat, thermodynamic systems analysis, and properties of state. Application of these fundamentals to energy conversion systems will be presented.

**PHY 356 Electricity and Magnetism (3)** Prerequisite: 1 year of Physics. An upper level course in electricity and magnetism. Topics include electrostatics, a microscopic analysis of current and circuits, theories of dielectrics, magnetic properties of matter, and Maxwell's equations.

**PHY 393 Physics Laboratory Techniques (1-2)** Prerequisite: PHY 201 or 301. Introduction to the direction of students in physics laboratories. Course includes instruction in the setup of equipment, supervision of laboratory activities, evaluation of laboratory reports, and laboratory safety. (3 to 6 hours a week).

**PHY 410 Physics for Teachers I (3)** Prerequisite: 1 year of Physics. An upper-level general physics course intended primarily for science education students. The course reviews many of the topics from general

physics I, including mechanics, with a deeper focus on conceptual understanding, problem-solving techniques, and demonstration development.

**PHY 420 Physics for Teachers II (3)** Prerequisite: PHY 410. An upper-level general physics course intended primarily for science education students. The course reviews many of the topics from general physics II, including electricity and optics, with a deeper focus on conceptual understanding, problem-solving techniques, and demonstration development.

**PHY 440 Astrophysics (3)** Prerequisites: 1 year of Physics and EAS 401. An upper level course in astrophysics. Topics include a more detailed survey of the sun, the solar system, stellar properties, stellar systems, interstellar matter, galaxies, and cosmology.

**PHY 457 Modern Physics (3)** Prerequisite: 1 year of Physics or by permission of instructor. An upper level course in modern physics. Topics include special and general relativity, quantum mechanics, atomic physics, particle physics, and nuclear physics. Cross-listed as CHE 457 Physical Chemistry II.

**PHY 465 Optics (3)** Prerequisite: 1 year of Physics. An upper level course in modern optics. Topics include the electromagnetic nature of light, Huygen's principle, interference, diffraction, polarization, dispersion, absorption and scattering.

**Graduate Courses**

**PHY 611 Contemporary Physics for Teachers I (3)** Selected topics from physics with emphasis on Newtonian mechanics, wave motion, heat, energy and harmonic motion. Lab will emphasize the use of computers. Lecture-lab combined.

**PHY 661 Contemporary Physics for Teachers II (2)** Selected topics from physics with emphasis on electricity, magnetism, light, and physics of the atom. Lecture-lab combined.

**Political Science (POS)  
History, Politics & Geography Department  
School of Natural & Social Sciences  
Connell Hall**

**Objectives:** Political Science involves the study of how societies are governed and the consequences of that activity. The programs and curriculum in political science presented below are designed to (1) provide courses of general study of the field, (2) prepare students for careers in public administration, (3) prepare students for teaching careers at the junior and senior high school levels, (4) provide supporting work for related programs, and (5) prepare students for graduate work in the field. Political Science at WSC is grouped into three general areas, American Politics, Public Administration and Policy, and International Relations.

**Major/Subject Endorsement in Political Science (BA or BS) 36 hours**

**Political Science Core: 12 hours**

POS	100 American National Government.....	3
	110 Intro to World Politics <b>or</b>	
	260 Comp Govt & Politics .....	3
	315 Seminar in Political Theory.....	3
	Capstone Experience (choose one).....	3

POS	490 Junior/Senior Research Seminar (3)	
	499 Senior Honors Colloquium (3)	

**American Politics (choose 6 hrs from the following) .....6**

POS	350 The American Presidency (3)	
	355 Politics of the Supreme Court (3)	
	360 Congressional Politics (3)	
	420 American Constitutional Law (3)	

425 Rights & Liberties (3)  
 444 Topics in Political Science-by advisement (3)  
**Public Administration and Policy** (choose 6 hrs from the following).....6  
 POS 300 State & Local Politics (3)  
 345 Public Admin & Mgt (3)  
 380 Public Policy (3)  
 390 Public Budgeting & Finance (3)  
 410 Public Policy Analysis & Program Eval (3)  
 444 Topics in Political Science-by advisement (3)  
 SSC 319 Statistics for the Social Sciences (3) (*for the major only*)  
**International Relations/Comparative** (choose 3 hrs)....3  
 POS 444 Topics in Political Science-by advisement (3)  
**Electives\***(as specified below) .....9  
**\*Political Science Major:** The 9 hours of electives may be selected at the student’s discretion from any of the three areas above in consultation with the academic advisor. An approved internship or co-op may qualify for 3 hours of elective credit. Also, if the student uses POS 110 to satisfy the core requirements, POS 260 may count as 3 hours of elective credit.  
**\*Political Science Subject Endorsement:** The 9 hours of electives for the endorsement must include 6 hours from the approved list of Social Sciences courses below and 3 hours from the Political Science areas above selected at the student’s discretion in consultation with the academic advisor.  
 ECO 350 Economic Development (3)  
 360 Global Economics (3)  
 430 International Economics (3)  
 GEO 300 Human Geography (3)  
 305 Political Geography (3)  
 HIS 320 The Twentieth Century (3)  
 360 Colonial & Revolutionary America (3)  
 370 Early National America (3)  
 380 America, Civil War through the Great Depression (3)  
 385 America, 1941 to the Present (3)  
 PSY 316 Social Psychology (3)  
 SOC 320 Social Welfare (3)

other courses by advisement that meet state certification requirements

No course with a grade below “C” will be accepted as part of the minimum requirements for the endorsement. EDU 409 Social Sciences Content Area Methods and Materials must be taken as part of the professional education requirements.

**Minor in Political Science: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student’s major(s) and minor(s).

POS 100 American National Government.....3  
 110 Introduction to World Politics.....3  
 315 Seminar in Political Theory .....3  
 Political Science electives.....12

9 of the 12 elective hours must be upper level courses. Includes three hours of the Social Sciences General Education requirement.

**Minor in Public Administration: 21 hours**

The minor in public administration is intended to prepare students in the public and/or non-profit sectors. There are three key objectives:

1. To enhance student preparation in written and spoken communication.
2. To provide students with the opportunity to critically consider the policy-making and policy-implementing institutions, which shape our society.
3. To expose students ideas related to public administration.

A minor must include a minimum of 12 hours unduplicated by the student’s major(s) and minor(s). There are 9 hours of required courses.

POS 100 American National Government.....3  
 345 Public Admin and Management .....3  
 380 Public Policy.....3

Electives from the following.....12

No more than 9 hours from one area. These electives must be chosen in consultation with an advisor.

BUS 350 Managing Behavior in Organizations (3)  
 360 Management Theory and Practice (3)  
 446 Government Accounting (3)  
 367 Foundatns of Human Resource Management (3)  
 CJA 375 Criminal Justice Management (3)  
 425 Substance Abuse Management (3)  
 ECO 202 Princ of the National Econ System (3)  
 203 Principles of Market System (3)  
 GEO 320 Urban Geography (3)  
 325 Geo. of Rec., Tourism, & Sports (3)  
 430 Geographic Information Systems (3)  
 POS 300 State and Local Politics (3)  
 390 Budget & Finance (3)  
 420 American Constitutional Law (3)  
 444 Topics (by advisement) (3)  
 PSY 316 Social Psychology (3)  
 SSC 300 Social Science Research Methods (3)  
 319 Statistics for the Social Sciences (3)  
 419 Adv. Social Sci. Res. Methods (3)

**Minor in Pre-Law: 21 hours**

The Pre-Law minor is designed to enhance the preparation of students interested in attending law school while also encouraging students to choose a major they find intellectually stimulating. The Pre-Law minor is also designed to provide students with the skills necessary to successfully compete for admission to law school and to do well once enrolled. The minor requires 21 hours of course work.

The Pre-Law minor has three objectives: (1) To enhance student preparation in written and spoken communication; (2) To provide students with the opportunity to critically consider the institutions and values which shape our society; and, (3) To expose students to many of the ideas and issues related to the study of law.

A minor must include a minimum of 12 hours unduplicated by the student’s major(s) and minor(s).

POS 100 American National Government.....3  
 420 American Constitutional Law.....3

Choose one of the following: .....3

- ENG 200 Expository Writing (3)
- CNA 317 Argumentation (3)
- CNA 342 Persuasion (3)\*
- PHI 310 Logic (3)

Choose one of the following:.....3  
 BUS 222 Business Law I (3)  
 BUS 223 Business Law II (3)  
 CJA 200 Criminal Law (3)\*  
 CNA 475 Communication Law (3)

Choose three of the following:.....9  
 ECO 202 Princ of the National Econ System (3)  
 ECO 203 Principles of Microeconomics (3)  
 GEO 305 Political Geography (3)\*  
 HIS 465 The American Civil Rights Movement (3)  
 PHI 201 Origins of Western Philosophy (3)  
 PHI 202 History of Modern Philosophy (3)  
 POS 315 Seminar in Political Theory (3)  
 POS 350 The American Presidency (3)  
 POS 355 Politics of the Supreme Court (3)  
 POS 360 Congressional Politics (3)  
 SOC 460 Social Stratification (3)\*

\* indicates that prerequisites in these choices are waived for students in this minor.

Law schools do not require a specific major for admission, however they do recommend broad preparation in a liberal arts program. Students should seek to develop a competency in (a) comprehension and expression in writing, (b) critical understanding of the human institutions and values with which the law deals, and (c) creative power in thinking.

Students are encouraged to select liberal arts majors that will allow them to acquire the skills necessary for successful application to law school. To aid students in that endeavor, WSC has a pre-law advisor. Students interested in pre-law should contact History, Politics and Geography department chair.

**Undergraduate Courses**

- POS 100 American National Government (3) The study of the institutions and political processes of the national government.
- POS 110 Introduction to World Politics (3) An introduction to the basic concepts of world political activity, offering a broad overview of the application of political science to world politics and international relations.
- POS 260 Comparative Government and Politics (3) Analysis and comparison of the political systems and processes of selected countries.
- POS 300 State and Local Politics (3) The study of the political institutions and process at state and local levels.
- POS 315 Seminar in Political Theory (3) This seminar allows detailed examination of one or more of the historical and current theoretical positions in political science. Among the possible topics are: classical theory of government, non-western theories, revolutionary theory, American political theory, and the European political tradition.
- POS 345 Public Administration and Management (3) Concepts of public administration and management processes, introduction to administrative processes of personnel, budgeting, and program management; analysis of public

bureaucracy’s function from a public policy perspective.

- POS 350 The American Presidency (3) The study and analysis of the development of the contemporary presidency, presidential powers, responsibilities, and political relationships.
- POS 355 Politics of the Supreme Court (3) This course focuses on the political forces that shape the Supreme Court’s decision-making process. Landmark cases will be closely examined and placed in their political, cultural, and historical context. In addition, students will examine different theories of adjudication, the selection process, and the Supreme Court’s relationship with the other political branches.
- POS 360 Congressional Politics (3) Analysis of the decision-making structure and process in Congress with a focus upon the organizational constraints on legislative behavior, recruitment of congressional candidates, congressional elections, legislative voting behavior and presidential influence in Congress.
- POS 380 Public Policy (3) The study of domestic policy making processes and institutions at all levels, taught from an intergovernmental relations perspective.
- POS 390 Public Budgeting and Finance (3) Study of the public budgetary process, public revenue sources, and financial processes of government at all levels, with emphasis on local agency processes.
- POS 410/510 Public Policy Analysis and Program Evaluation (3) Prerequisite: POS 380. Public policy analysis consists of systematically exploring alternatives to defined public policy problems. Program evaluation consists of post hoc examination of the process and impact of public policy. This course is an introduction to the basic concepts and practice of public policy and program evaluation. Students will learn qualitative and quantitative methodological skills used in these processes and employ these skills in research.
- POS 420 American Constitutional Law (3) A study of the U.S. Constitution and the impact of the Supreme Court’s interpretations of the Constitution: judicial review, governmental powers and rights of citizens, including both civil and criminal rights.
- POS 425 Rights and Liberties (3) A study of the Bill of Rights and the impact of the Supreme Court’s interpretations on its provisions. Subjects include freedoms of religion, freedoms of speech, freedom of the press, the right to keep and bear arms, search and seizure, the right to counsel, cruel and unusual punishment, discrimination, and the right to privacy.
- POS 444 Topics in Political Science (3) Current or special issues in Political Science will be examined. The course offers students the opportunity to discuss relevant issues facing society. The course may be repeated for credit, by advisement, when no duplication of topics exists.
- POS 490 Junior/Senior Research Seminar (3) Prerequisite: Junior standing. A study of the techniques and methodology

of political science and social sciences research. Students will complete a major research project on a topic of their choice and present the results.

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

POS 500 Seminar in Political Science (3) Reading and discussion of selected topics in political science. Content

and title will vary. May be repeated if topic and title are different.

POS 510 Public Policy Analysis and Program Evaluation (3)  
See POS 410.

POS 530 Public Policy (3) The study of domestic policy making processes and institutions at all levels, taught from an intergovernmental relations perspective.

**Pre-Professional Programs**

Students planning to enter the professions listed below will find Pre-Professional Programs offered in the School of Natural & Social Sciences. These programs are coordinated with fields of specialization at the University of Nebraska. Students preparing for these professions should consult early with WSC Mathematics and Sciences faculty to plan appropriate courses, and they also should write a professional college for its advice on preparatory courses. The list of pre-professional fields below includes a recommended duration of study at WSC. Admission to the professional schools is competitive.

- Agriculture, 2 years
- Architecture, 2 years
- Bio. Systems Engineering, 2 years
- Cardiovas/Inteven Tech (CVIT) 50 cr. hrs.
- Chiropractic, 3 years
- Computed Tech./Magnetic Res. (CT/MRI) 50 cr. hrs.
- Dental, 3 years
- Dental Hygiene, 2 years

- Diagnostic Med. Sonography (DMS), 50 cr. hrs
- Engineering, 2 years (see Pre-Professional Studies in Engineering section of this catalog for more information)
- Forestry, 2 years
- Medicine, 4 years
- Nuclear Medicine Tech. (NMT), 50 cr. hrs
- Nursing, RN 1 yr, BSN 2 yrs
- Occupational Therapy, 2 years
- Oceanography, 2 years
- Optometry, 3 years
- Osteopathic Medicine, 3 years
- Pharmacy, UNMC, 60 cr. hours
- Pharmacy, Creighton, 63 cr. hours
- Physical Therapy, UNMC, 3 years
- Physical Therapy, Creighton, 3 years
- Physician's Assistant, 4 years (Bachelor's Degree)
- Podiatric Medicine, 3 years
- Radiation Therapy Tech, 50 cr. hrs
- Radiography, 50 cr. hrs.
- Veterinary Medicine, 3 years

**Psychology (PSY)**

**Sociology, Psychology & Criminal Justice Department  
School of Natural & Social Sciences  
Connell Hall**

**Objectives:** Psychology is the science that studies behavior and mental processes. The major in psychology is designed to provide a broad foundation of knowledge to meet the needs of students entering the helping professions, graduate schools, and/or related areas.

**Subject Endorsement in Psychology (BA or BS) 36 hours**

No course with a grade below "C" will be accepted as part of the minimum requirements for the endorsements.

PSY	101 General Psychology	3
	401 Theories of Personality <b>or</b>	
	470 History and Systems	3
	405 Experimental Psychology	3
	490 Assessment Seminar	0
	choose two of the following three	6
PSY	402 Learning (3)	
	403 Cognitive Psychology (3)	
	460 Physiological Psychology (3)	

\*Psychology electives ..... 15  
9 of the 15 elective hours must be upper level courses.  
Electives from ECO, GEO, HIS, POS, SOC ..... 6  
EDU 409 Social Sciences Content Area Methods and Materials must be taken as part of the professional education

requirements.

**Major in Psychology (BA or BS) 36 hours**

PSY	101 General Psychology	3
	401 Theories of Personality <b>or</b>	
	470 History and Systems	3
	405 Experimental Psychology	3
	490 Assessment Seminar	0
SSC	319 Statistics for Social Sciences	3
	choose two of the following three	6
PSY	402 Learning (3)	
	403 Cognitive Psychology (3)	
	460 Physiological Psychology (3)	

\*Psychology electives ..... 18  
12 of the 18 elective hours must be upper level courses. A minor or second major is required.

**Minor in Psychology: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s).

PSY	101 General Psychology	3
	*Psychology electives (may include SSC 319)	18

12 of the 18 elective hours must be upper level courses.  
\*No more than three credit hours toward program electives in the psychology major, psychology minor, or psychology subject endorsement will be accepted from cooperative education or internship credits.

***PSY 101 is a prerequisite for all other Psychology courses.*****Undergraduate Courses**

**PSY 101 General Psychology (3)** An overview of human behavior from various psychological perspectives. Topics covered to include; learning, maturation, biological foundations, motivation, perception, personality development, personal awareness, abnormal behavior, and social behavior.

**PSY 230 Life Span Development (3)** Presentation of physical, cognitive, social, and personality development throughout the life span. Development tasks will be presented.

**PSY 300 Evolutionary Psychology (3)** Focuses on the origins of behavior and mental processes, the adaptive value they have or had, and the purposes they serve or served.

**PSY 316 Social Psychology (3)** Prerequisite: PSY 101 or SOC 101. The scientific discipline that investigates social influences that appear to produce similarities and differences in human behavior.

**PSY 345 Health Psychology (3)** Health Psychology emphasizes the role of psychological factors in the maintenance of good health; the prevention of illness; and the treatment of, recovery from, and adjustment to existing and ongoing illness.

**PSY 401 Theories of Personality (3)** Distinctive themes of selected theories of personality will be presented. Emphasis is placed on those themes that foster knowledge of individual behavior.

**PSY 402/502 Learning (3)** A study of the principles, theories and research on learning and behavior. The course will emphasize basic principles of learning and real world examples and applications of them. Topics include habituation, classical conditioning, reinforcement, punishment, stimulus control of behavior, biological constraints on learning, and animal memory and cognition.

**PSY 403/503 Cognitive Psychology (3)** This course is organized around the information-processing framework of human cognition. The purpose of the class is to introduce substantive fundamental issues in human cognition, learning and memory. Selected experiments and their implications for conceptual issues will be discussed in depth in order to draw their direct pertinence to and potential impact upon human affairs.

**PSY 405 Experimental Psychology (3)** Prerequisite: SSC 319 or equivalent. An introduction to the methods of experimental psychology as a means of obtaining information about behavior. The laboratory section will allow students to learn to apply and report research methods by initiating, conducting, analyzing, and reporting experimental research procedures.

**PSY 406/506 Death and Dying (3)** Prerequisites: PSY 101 or SOC 101. This course examines various causes of death (including "natural causes," AIDS, suicide, violent deaths), dying with dignity, our attitudes about death, rituals, and grief processes.

**PSY 408/508 Forensic Psychology (3)** Forensic Psychology is any application of psychological knowledge to issues within the legal system. Topics include psychological profiling, psychological autopsies, lie detection, insanity and competency, violence, eyewitness identification, and law enforcement selection and training.

**PSY 410/510 Psychology of Small Group Behavior (3)** Prerequisites: PSY 101 or SOC 101. This course provides a critical overview of theory and research on small groups. Cohesiveness, conformity, power, inter-group and intra-group conflict and cooperation are studied. Students will observe and participate in small group processes.

**PSY 415/515 Human Sexuality (3)** Human sexuality is examined from a multicultural perspective to include the historical, biological, psychological, cultural, and sociological viewpoints.

**PSY 435/535 Industrial/Organizational Psychology (3)** A study of the application of the methods, facts and principles of psychology to people at work. Research in Industrial-Organizational Psychology includes an examination of job analysis and evaluation, selection, training and performance appraisal of personnel, the structure and context of organizations, organizational culture, organizational change, career development, motivation, job satisfaction, and team dynamics from a psychological perspective. Students will also examine the impact of factors such as increasing government influence, technology improvements, shifting economic conditions and the changing nature of the workforce on industry. This area of psychology will be shown to have a direct impact on business, industry, labor, public, academic, community and health organizations.

**PSY 440/540 Psychopharmacology (3)** A study of the physical changes and psychological effects that drugs have on the brain and nervous system. Topics will include the basic organization and function of the brain and nervous systems and a history of the use of drugs. The course will emphasize how the functions of the brain are altered by the use of drugs, from both illegal and prescription uses. An overview of the mental disorders for which drugs are prescribed, and the mental disorders that result from drug use is included.

**PSY 444/544 Topics in Psychology (3)** Current or special issues in Psychology will be examined. The course offers students the opportunity to discuss relevant issues facing society. The course may be repeated for credit, by advisement, when no duplication of topics exists.

- PSY 450/550 Abnormal Psychology (3) Approaches to the assessment and treatment of emotional, social, psychotic, organic, and development disorders are examined.
- PSY 460/560 Physiological Psychology (3) Course work will focus on the relationship between the nervous system and behavior. Theories of interactions between the brain and behavior, the research methods and results of such studies, and the implications of the findings will be examined.
- PSY 470/570 History and Systems (3) A study of the ideas and contributions of individuals who influenced the development of psychology as a science. Topics include important theories and schools of thought on which psychology is based.
- PSY 490 Assessment Seminar (0) Prerequisites: PSY 405 and 100 credit hours. For the purpose of psychology assessment, students will complete a comprehensive psychology exam to measure knowledge of the field of psychology. Students will also complete a program evaluation. This class will meet every semester on the Friday preceding Finals Week. Graduation Requirement. Graded S/NC.

**Cross Listed Course:**

Three hours from the following course may be used as electives in psychology programs:

SSC 300 Social Sciences Research Methods

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

- PSY 502 Learning (3) See PSY 402
- PSY 503 Cognitive Psychology (3) See PSY 403
- PSY 506 Death and Dying (3) See PSY 406
- PSY 508 Forensic Psychology (3) See PSY 407
- PSY 510 Psychology of Small Group Behavior (3) See PSY 410
- PSY 515 Human Sexuality (3) See PSY 415
- PSY 535 Industrial/Organizational Psychology (3) See PSY 435
- PSY 540 Psychopharmacology (3) See PSY 440
- PSY 544 Topics in Psychology (3) See PSY 444
- PSY 550 Abnormal Psychology (3) See PSY 450
- PSY 560 Physiological Psychology (3) See PSY 460
- PSY 570 History and Systems (3) See PSY 470
- PSY 600 Studies in Psychology (3) The study and analysis of selected of selected topics in the field of psychology. The course will emphasize both content and general research approaches to the topic. Content and title will vary. May be repeated for credit if topic and title are different.

**Social Sciences (SSC)**

**Sociology, Psychology & Criminal Justice Department  
School of Natural & Social Sciences  
Connell Hall**

**Objectives:** Social Sciences offers courses and programs of study designed to help the student understand the history and nature of human beings in a social context. Students may select a field endorsement, or a Social Sciences major. A minor in Social Sciences is available for students not in the Social Sciences major itself. Students are urged to work closely with their academic advisor to select suitable courses from the many choices.

**Field Endorsement in Social Sciences (BA or BS) 66 hours**

The endorsement includes 15 hours of Block 3 General Education history and social sciences requirements. No course with a grade below "C" will be accepted as part of the minimum requirements for the endorsement.

- HIS 170 World Civilizations I.....3
- 171 World Civilizations II.....3
- 180 The American Experience I.....3
- 181 The American Experience II.....3
- Upper level U.S. History.....6
- Upper level Non-U.S. History .....6
- History electives.....3
- SSC 490 Social Sciences Research Seminar  
(or appropriate Honors class, 395 or 499).....3
- 9 hours in each of two selected Social Sciences areas  
(Anthropology/Sociology, Economics, Geography,

- Political Science, or Psychology) ..... 18
- 6 hours from each of the 3 remaining Social Sciences  
areas not selected above..... 18

Within each discipline, courses are presented in the recommended order of selection:

- Anthropology/Sociology, SOC 101 (3), SOC 110 (3), a 3 hour course by advisement.
  - Economics, ECO 202 (3), 203 (3), a 3 hour upper level ECO course.
  - Geography, GEO 120 (3), 6 hours of upper level GEO courses.
  - Political Science, POS 100 (3), 6 hours of upper level POS courses.
  - Psychology, PSY 101 (3), 6 hours of upper level PSY courses.
- Courses count only in the area of the prefix.

EDU 409 Social Sciences Content Area Methods and Materials must be taken as part of the professional education requirements.

**Major in Social Sciences (BA or BS) 55 hours**

This major can include only 6 hours of General Education History & Social Sciences courses.

Students must select an 18 hour Primary Area of Emphasis, plus 18 hours including 3 hours from each Social Sciences program outside the emphasis (CJA, ECO, GEO, HIS, POS, PSY, SOC/Anthropology), plus 18 hours of electives from any of the SSC areas, with a maximum of 12 additional hours in any area outside the primary emphasis, and SSC 485 (1) Social Sciences Senior Seminar. Note: at least 50% of the hours in the major must be upper level courses (300 or above). **Primary**

**Areas** (18 hours from one area required as a Primary Area of Emphasis)

**Criminal Justice**

CJA	105 Intro to Criminal Justice .....	3
	365 Juvenile Delinquency .....	3
	CJA courses as electives.....	12

**Economics**

ECO	202 Principles of Macroeconomics .....	3
	203 Principles of Microeconomics.....	3
	ECO upper-level electives.....	9

SSC	319 Statistics for Soc. Sciences.....	3
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**Geography**

GEO	GEO electives by advisement.....	18
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**History**

HIS	HIS electives by advisement .....	18
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**Political Science**

POS	100 American National Government.....	3
	110 Intro to World Politics.....	3
	POS electives by advisement.....	12

**Psychology**

PSY	101 General Psychology.....	3
	PSY electives by advisement.....	15

**Sociology/Anthropology**

SOC	SOC electives .....	18
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including no more than 6 hours of courses cross-listed in the Sociology major.

**Minor in Social Sciences: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major(s) and minor(s). 21 hours from the departments of criminal justice, economics, geography, history, political science, psychology, sociology/anthropology, and social sciences interdisciplinary courses; 9 hours of lower level (100 and 200 level) courses with no more than 3 hours from any one area; 12 hours of upper level courses with no more than 6 hours from any one area. Courses taken to satisfy a student's major(s) may not be used in the minor.

**Undergraduate Courses**

SSC 300 Social Sciences Research Methods (3) Prerequisite: 9 hours of course work in the social sciences. This course introduces students to basic quantitative and qualitative research methods. The course covers methodological concepts, the steps in the research process, measurement, research design, elementary data analysis, and report

writing. Students are introduced to analysis of research reported in professional literature. This class includes computer applications in research methods.

SSC 319 Statistics for the Social Sciences (3) Prerequisite: 3 hours math. Introduction to the statistical measures commonly used in Social Sciences research and their application to research problems in the various Social Sciences disciplines. Includes use of computer statistical packages for Social Sciences.

SSC 419 Advanced Social Sciences Research Methods (3) Prerequisite: junior standing; SSC 300. This course is in support of the activities of the SSRC (Social Sciences Research Center). The focus is on applied qualitative and quantitative research procedures for evaluation, analysis and presentation of Social Sciences data. Primary and secondary data analysis is utilized. Class may include: grant writing and evaluation, preparing survey/assessment instruments, focus group research, and field research projects. Data collection, data analysis, and report writing are part of the curriculum. Assignments vary according to SSRC projects. The course includes extensive computer applications.

SSC 444 Topics in Social Sciences (3) Current social issues will be examined in a multi-disciplinary approach in a seminar setting. Topics will vary each semester. May be repeated for credit if no duplication of topics exists.

SSC 485 Social Sciences Senior Seminar (1) Prerequisites: Senior standing, permission of the advisor. Students will complete a written project on a topic chosen with their advisor. This project is intended to integrate all of the disciplines and approaches taken in the major, demonstrating the interrelatedness of the Social Sciences. The advisor will meet with various faculty members to facilitate discussion of the integration of ideas through the students course work.

SSC 490 Social Sciences Research Seminar (3) A study of the techniques of historical and Social Sciences research and writing. Students will complete a major research project on a topic of their choice and present the results to the seminar. Students in Honors Colloquium 499 are exempt from SSC 490 when required in a major endorsement.

**Sociology/Anthropology (SOC)**

**Sociology, Psychology & Criminal Justice Department**  
**School of Natural & Social Sciences**  
**Connell Hall**

**Objectives:** Broadly speaking, sociology is the study of human social behavior. It is concerned with the structure and cultural settings of social systems, the development of systematic reliable knowledge about human relationships, and with the products of such relationships. Sociology challenges students to examine the variety of learned social values. Sociology helps students to develop their sociological imagination, to understand the relationship between individual

experiences and forces in the larger society that shape their actions. An emphasis in critical thinking and the development of good communication skills is a hallmark of the program. Courses are specifically designed to provide all students with the opportunity to develop these skills. Majors also engage in hands-on research in the Sociology Senior Seminar and participate in experiential learning opportunities as internships and service-learning projects in a variety of settings.

**Program Goals:**

Students who major in sociology should be able to: (1) understand and apply the "sociological perspective" and the basic concepts of the field; (2) compare major theoretical

perspectives, know the contributions of key sociological writers and understand the role of theory in sociology; (3) demonstrate knowledge of basic statistics and research methods which characterize the discipline and the ability to apply these skills in evaluating and interpreting data; and (4) demonstrate an awareness and understanding of socio-cultural diversity.

**Subject Endorsement in Sociology (BA or BS) 36 hours**

No course with a grade below "C" will be accepted as part of the minimum requirements for the endorsement.

SOC	101 Introduction to Sociology .....	3
	110 Introduction to Anthropology .....	3
	200 Sociology of Deviance .....	3
	220 Social Problems .....	3
SSC	300 Social Sciences Research Methods .....	3
	Upper level Sociology Electives .....	15
	Social Sciences Electives .....	6

EDU 409 Social Sciences Content Area Methods and Materials must be taken as part of the professional education requirements.

**Major in Sociology (BA or BS) 36 hours**

SOC	101 Introduction to Sociology .....	3
	110 Introduction to Anthropology .....	3
	480 Social Theory .....	3
	488 Sociology Senior Seminar (or appropriate Honors class, 395 or 499) .....	3
	3 hours from SOC 200, 220, 345 .....	3
SSC	300 Social Sciences Research Methods .....	3
	319 Statistics for the Social Sciences .....	3
	SOC electives (may include SSC 419 and up to 6 hours of cross listed courses) .....	15

A total of 18 hours in the major must be upper level courses. A minor or second major is required.

**Minor in Anthropology: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major.

SOC	101 Introduction to Sociology .....	3
	110 Introduction to Anthropology .....	3
	Electives .....	15
SOC	345 Multicultural America (3)	
	350 Religion and Culture (3)	
	415 The Family (3)	
	435 Forensic Anthropology (3)	
	444 Topics in Sociology (by advisement) (3)	
	445 Native Americans (3)	
	465 Peoples & Cultures of the Mid East (3)	

**NOTE:** Another major or minor is required for students selecting sociology and anthropology major/minor combinations.

**Minor in Sociology: 21 hours**

A minor must include a minimum of 12 hours unduplicated by the student's major.

SOC	101 Introduction to Sociology .....	3
	220 Social Problems .....	3
	Upper level Sociology Electives .....	15
	(may include SSC 300, 319 and 419 and up to six hours of cross-listed courses)	

**Undergraduate Courses**

SOC 101 Introduction to Sociology (3) An introduction to

the study of human social behavior, society and its values, social organization, institutions, and processes. Some topics included are socialization, minorities, deviance, gender roles, the family, social stratification, and social change.

SOC 110 Introduction to Anthropology (3) This course introduces the student to the four major subdivisions of anthropology: physical anthropology, archeology, linguistic anthropology, and cultural anthropology. It lays the foundations for an understanding of human biological and cultural diversity.

SOC 200 Sociology of Deviance (3) Prerequisite: SOC 101 or instructor permission. Study and discussion of selected topics regarding areas of deviance including alcoholism, drug abuse, mental illness, crime, and domestic violence.

SOC 220 Social Problems (3) Prerequisite: SOC 101 or instructor permission. Study and discussion of selected social issues including racism, ageism, sexism, poverty, welfare and environment.

SOC 315 Rural Sociology (3) Prerequisite: SOC 101 or instructor permission. The study of the social and cultural aspects of rural life, differential access to social institutions, rural poverty, agribusiness, and future prospects.

SOC 320 Social Welfare (3) Prerequisite: SOC 101 or instructor permission. Designed for those interested in understanding social welfare systems, public assistance processes and policies, social services programs, client/patron relations, current issues associated with welfare programming, and the influences of politics of social welfare.

SOC 345 Multicultural America (3) Prerequisite: SOC 101 or instructor permission. Study of the history, place, and role of ethnic and racial groups in American society. The course uses a comparative approach and focuses upon the differences and similarities in the adjustment processes of different groups to the American scene from the colonial period to the present.

SOC 350 Religion and Culture (3) Prerequisite: SOC 110 or instructor permission. The study of religious behavior from an anthropological perspective; it explores various religious beliefs and rituals across cultures.

SOC 355 Human Populations (3) Prerequisite: SOC 110 or instructor permission. A study of the major qualitative and quantitative problems and trends in human populations and consideration of those social factors that influence their composition. This course addresses the interrelationships between demographic variables and populations and how these apply to a variety of disciplines.

SOC 415/515 The Family (3) Prerequisite: SOC 101 or instructor permission. Study of the basic social unit: socialization processes, love, marriage, parental roles, conflict and divorce, within a historical and cultural perspective.

SOC 420 Environmental Sociology (3) Prerequisite: SOC 101 or instructor permission. This course will analyze the relationship between the logic of social system development and resource development. The reciprocal relationship between human society and ecosystems will be examined as a wide range of environmental problems are addressed.

SOC 435 Forensic Anthropology (3) Prerequisite: SOC 110 or instructor permission. Laboratory-style course emphasizing forensic and archaeological problems in the identification and study of the human skeleton. Human bones are often the last testament of a deceased individual. Through careful study, bones can reveal sex, height, population, age, occupation, disease and trauma of an individual. This course does NOT fulfill an elective requirement for the Sociology major or minor.

SOC 444 Topics in Sociology (3) Current or special issues in Sociology will be examined. The course offers students the opportunity to discuss relevant issues facing society. Topics may include community, social change, and the sociology of women. The course may be repeated for credit, by advisement, when no duplication of topics exists.

SOC 445/545 Native Americans (3) Prerequisite: SOC 110 or instructor permission. The course explores the factors that have shaped the distinctive lifestyles of American Indians. These include pre-contact lifestyles, Indian-White relations, and contemporary developments among American Indians.

SOC 460/560 Social Stratification (3) Prerequisite: SOC 101 or instructor permission. Social stratification systems, social status, and social classes provide the course focus. The expression and impact of stratification in society are also explored. Inequalities based on race, gender, and age are also discussed.

SOC 465/565 Peoples & Cultures of the Middle East (3) Prerequisite: 110 or instructor permission. The focus of this course is the Middle East, its peoples and its cultural heritage. The emphasis is on important environmental and historical forces that have produced a complex region with interlocking linguistic, ethnic, religious, kin, and class distinctions that characterize the area today.

SOC 480/580 Social Theory (3) Prerequisite: SOC 101 or instructor permission. A survey of the major theorists and modern theoretical perspectives in sociology.

SOC 488/588 Sociology Senior/Graduate Seminar (3) Prerequisite: SOC 101 or instructor permission. This course is designed to be a student-driven course that reviews the theoretical perspectives, basic concepts, importance of socio-cultural diversity, and research methods first introduced in Introduction to Sociology and then utilized throughout the sociology curriculum. The course includes refinement of students' understanding of the "sociological imagination," ethics, and other professional issues in the discipline of sociology; further development of students' critical writing, thinking, and communication skills; and engagement in a research project from conception to completion. Ultimately, the course is focused on the professional socialization of students majoring in sociology.

**Cross Listed Courses:**

Six hours from the following courses may be taken for sociology credit in the major or minor, not for the endorsement.

CJA 365 Juvenile Delinquency  
CJA 405 Family Violence  
PSY 316 Social Psychology

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

SOC 500 Topics in Sociology (3) Reading and discussion of selected topics in sociology. Content and title will vary. May be repeated if topic and title are different.

SOC 510 Topics in Anthropology (3) Reading and discussion of selected topics in anthropology. Content and title will vary. May be repeated if topic and title are different.

SOC 515 The Family (3) See SOC 415

SOC 545 Native Americans (3) See SOC 445

SOC 560 Social Stratification (3) See SOC 460

SOC 565 Peoples & Cultures of the Middle East (3)  
See SOC 465

SOC 580 Social Theory (3) See SOC 480

SOC 588 Sociology Graduate Seminar (3) See SOC 488

SOC 600 Studies in Sociology/Anthropology (3) The study and analysis of selected topics in the fields of sociology or anthropology. Content and title will vary. May be repeated if topic and title are different.

**Special Education (SPD)  
Counseling & Special Education Department  
School of Education & Counseling  
Brandenburg Education Building**

The Special Education Program is a collaborative and consultation based professional preparation program within the School of Education & Counseling. This program requires each preservice teacher to have completed a program of study in (1) General Education; (2) Professional Education; and (3)

Special Education Specialty Studies. The Special Education Field Endorsement, being a teacher education program, is governed by all requirements established and set forth by the School.

**Philosophy:** The philosophy of the WSC Special Education Program is dedicated toward enabling exceptional learners to be teachable in regular education settings through consultative and collaborative professional education environments.

**Theme:** The WSC Teacher Education Program has established as the theme of its professional education knowledge base that preservice teachers will be prepared to relate theory and practice through inquiry, reflection, and facilitation. Using the professional education knowledge base theme as an integrative core of educating special education teachers, the specialty studies knowledge base theme of the WSC Special Education Program is concentrated upon distinguished professional preparation of the special educator as a precision teacher and transdisciplinary collaborator.

**Outcomes:** All WSC Special Education majors in addition to demonstrating competency in the six (6) program outcomes and nine (9) essential teaching behaviors of the professional education knowledge base will also demonstrate competency in the Special Education Program knowledge base in nine (9) program outcomes and sixteen (16) essential competencies for mild/moderate exceptional learners K-12.

MAT 210 Mathematics for Elementary School Teachers I (3) must be taken for the Block 2 Mathematics General Education requirement.

All WSC Special Education majors must adhere to program entry and progress requirements delineated by the Gateway system described in the Education section.

**Field Endorsement in Special Education**

**Mildly/Moderately Handicapped K-12 (BA or BS) 52 hours**

A “C” or above is required in each course.

CNA	451 Speech Pathology .....	3
EDU	216 Children’s Literature.....	2
	310 Reading and Writing in the Middle/ Secondary School .....	1
	340 Early Reading & Language Arts.....	4
	430 Literacy Assessment .....	3
PED	407 Motor Perception and Adaptives for Special Populations .....	3
SPD	151 Introduction to Special Education .....	3
	252 Char/Meth Kindergarten/Elem (K-6) .....	3
	331 Ident & Assess for Ind Instr.....	3
	353 Char & Methods: Mid/Sec. (7-12).....	3
	361 Clinical Exp-Special Education.....	6
	400 Mgt & Dec Making Strat for Sp Ed.....	3
	402 Life Skills and Transition .....	3
	404 Measurement and Evaluation .....	3
	430 Behav Inter for the LRE .....	3
	431 Diag/Pres for Ind Instr. & Curr P-12 .....	3
	452 Consultation & Collaboration Practices for Exceptional Learners .....	3

**Professional Education Courses 26 hours**

EDU	201 Introduction to Prof Ed.....	3
	211 Child & Adol Growth & Dev.....	3
	321 Ed Psych: Models & Theories of Learning.	3
	367 Human Relations .....	3
	400 Secondary Schools.....	2
SPD	405 Directed Teaching (Elementary).....	6
	410 Directed Teaching (Secondary) .....	6

**Undergraduate Courses**

SPD 151 Introduction to Special Education (3) Study of the knowledge base for special education with respect to

legislation, procedural requirements, exceptional learner placements, instruction, and evaluation. An emphasis is placed upon behavioral and humanistic examination of special education practice in culturally responsive settings.

**This course is approved by the Nebraska Dept. of Ed. for certification purposes.**

SPD 252 Characteristics and Methods Kindergarten/Elementary (K-6) (3) Prerequisite: SPD 151. Study of the methodology facilitating learning of basic academic and psychosocial skills for students with mild/moderate disabilities from kindergarten through grade six. Study includes development of transition to secondary programming and instruction in the least restrictive environment/inclusive setting. An examination of assistive technology is also included.

SPD 260 Characteristics and Methods: Birth through Age 4 (2) Prerequisite: SPD 151. This course addresses the etiology, affects of the disabilities, assessment and interventions for the young child. Emphasis is on working with families of young children with disabilities. Writing and implementation of the IFSP is studied. Transition to kindergarten is included. Ten clock hours of field experience are required with infants/toddlers who are disabled.

SPD 261 Characteristics and Methods: Age 5 through Age 8 (2) Prerequisites: SPD 151, 260 (may be taken concurrently). This course teaches best practices for individualization of instruction for grades K-3, inclusionary practices, and responsibilities of the general educator on the IEP team. Transition to middle school is included.

SPD 331 Identification and Assessment for Individual Instruction (3) Prerequisites: SPD 151, 252 and 404. Study of informal and formal identification and assessment procedures for exceptional learners consistent with federal and state mandates for IFSP, IEP, ITP, and IPP. Emphasis upon terminology and descriptive statistics for standardized and non-standardized tests for placement in the least restrictive environment. Included is test administration and report writing for multidisciplinary teams.

SPD 353 Characteristics and Methods: Middle/Secondary (7-12) (3) Prerequisites: SPD 151 and 252. Study of non-categorical knowledge-base unique to adolescents and young-adult-aged exceptional learners with focus upon mild or moderate disabilities. Emphasis upon the methodology of facilitating the student’s learning in general education settings, and transition to post-secondary education. An introduction to assistive technology and mastery of learning strategies are included.

SPD 361 Clinical Experience-Special Education (6) Prerequisites: SPD 331, 353, 400, and 430. A culturally responsive clinical experience that bridges the professional education and special education knowledge bases with experiential practice. Emphasis is upon transdisciplinary delivery of the IEP with consultative assistance provided

by an experienced practitioner in a school or agency educational setting. Evaluation by letter grade. Students must preregister with the Office of Field Experiences by October 15.

SPD 400 Management and Decision Making Strategies for Special Education (3) Study of legal, procedural, and organizational structures of special education programs. Emphasis upon teacher management of classrooms within programmatic resources consistent with federal and state mandates (e.g. IDEA 2004, and Rule 51), technology, cultural diversity, as well as emerging trends and practices in special education. Focus is directed toward consultative and collaborative approaches for transdisciplinary practice.

SPD 402/502 Life Skills and Transition (3) Prerequisites: SPD 151 or 608 and SPD 252. Preparation of teacher candidates to direct secondary programs for exceptional students who can benefit from opportunities to pursue the development of their behaviors, abilities, and attitudes that will allow them equal access to the adult world of working and living. Theory, research, and directed experiences for inquiring and reflecting will be provided for the teacher candidates through the study of: history of the development of career education for persons with disabilities; principles of secondary education programs; legislation and litigation regulations regarding transition; procedures for job training, placement and supervision; correlation with the Individualized Transition Plan; and required academic programming.

SPD 404/504 Measurement and Evaluation (3) Historical background of mental achievement, personality testing and evaluating criteria of a good test, analysis of standardized and informal examinations, test diagnosis and construction, summarizing, interpreting, and using test results.

SPD 405 Directed Teaching-Special Education K-6 (6) Prerequisite: Admission to the professional semester. Qualified senior students shall make application at the beginning of the second term of their junior year. Special Education majors will spend one half of their directed teaching experience at the K-6 level. Evaluation by letter grade.

SPD 410 Directed Teaching-Special Education 7-12 (6) Prerequisite: Admission to the professional semester. Qualified senior students shall make application at the beginning of the second term of their junior year. Special Education majors will spend one half of their directed teaching experience at the 7-12 level. Evaluation by letter grade.

SPD 430/530 Behavioral Intervention for the Least Restrictive Environment (3) Prerequisites: SPD 151 or 608. Study of maladaptive, atypical or deviant behaviors of students who require specialized educational programming. Techniques for modification of student behavior to support individual differences in development and learning. Therapeutic

techniques will be studied. Emphasis on behavior management for parental training and involvement; assistance for the educator in the general education classroom; and early childhood behavioral disabilities are included.

SPD 431 Diagnosis and Prescription for Individual Instruction and Curriculum P-12 (3) Prerequisite: SPD 331. Study of the interpretation of standardized and non-standardized assessment of exceptional learners to diagnose specific individual learning needs. Emphasis upon the collaborative application of interpreted assessments for prescriptive precision teaching to enhance learning in the least restrictive environment. Included is consultative application of the IFSP, IEP, ITP, and IPP to integrated educational settings. Examination of assistive technology and vocational transition.

SPD 452/552 Consultation and Collaboration Practices for Exceptional Learners (3) Trans-disciplinary consultation and collaboration with parents and educators of exceptional learners and related special services personnel. Emphasis is upon culturally responsive models and approaches directed toward meeting the unique educational needs of exceptional learners. The role of the family and community on the development and learning of young children is included.

**Eligible seniors may enroll in 500 level graduate courses. Graduate Courses**

SPD 502 Life Skills and Transition (3) See SPD 402

SPD 504 Measurement and Evaluation (3) See SPD 404

SPD 530 Behavioral Intervention for the Least Restrictive Environment (3) Prerequisite: SPD 151 or 608. See SPD 430.

SPD 552 Consultation and Collaboration Practices for Exceptional Learners (3) See SPD 452.

SPD 572 Identification of Mild/Moderate Disabilities (3) Prerequisites: SPD 151 or 608, SPD 252, SPD 404 or 504. Provides training and experience in the administration and interpretation of formal diagnostic instrument rating scales and checklists and psychometric devices which may be used to screen, identify, and make educational plans for students with disabilities.

SPD 608 Survey of Exceptionalities (3) The historical development of the education of students with exceptional education needs, recognizing the characteristics and causes of the exceptionalities, and the diagnosis and instructional intervention relevant to the particular exceptionality are presented. The course is appropriate for educational practitioners and community agency personnel. Direct application of the knowledge of exceptionalities to the classroom or agency population is expected.

**SPD 609 Neuropsychology of Exceptional Learners (3)**

Understanding the unique learning characteristics of the exceptional student. Brain research as it relates to exceptionality is studied. Emphasis on learning ability and the psychological foundation for selected teaching strategies for exceptional students.

**SPD 610 Curriculum Modification in LRE (3) Prerequisites:**

SPD 151 or 608, 609, 631. Emphasis on the educational modifications needed for exceptional learner's success in the General Education setting and to comply with the mandates of the IEPs. Inclusionary practices are studied.

**SPD 611 Organization and Administration of Special**

**Education (3) Prerequisite:** SPD 151 or 608. Introduction to administrative procedures of special services. Emphasis on Nebraska and national laws governing special education. Processes of planning and implementing student programs as well as maintaining student records, identifying, selecting and using local and state resources for operating the special education program are studied.

**SPD 625 Characteristics and Methods: High Ability**

**Students (3)** This course provides an introduction to the psychological characteristics of giftedness in students. Characteristics of at-risk student populations are studied. The candidate will develop and prescribe appropriate curricula, methods, models, and materials to meet the unique needs of high ability learners. The six areas of giftedness identified by the federal law will be specifically addressed.

**SPD 631 Assessment, Diagnosis, and Interpretation (3)**

**Prerequisites:** SPD 151 or 608. An advanced course to prepare the special educator to be a team leader in the identification process for exceptional learners. Emphasis on interpretation of assessment data into educational programming for the individual exceptional student.

**SPD 661 Clinical Application (3-6) Prerequisites:**

Admission to special education MSE degree program and advisor's approval. **Special Educator Option:** This course focuses

on the student's application of new learning strategies in a sequence of planning and instructional phases to serve students with mild/moderate disabilities in K-12 general and special education settings. An individualized professional development plan is written by the advisor with the student, and the student's local special education administrator's input. (Letter grade will be recorded)

**SPD 662 Practicum in High Ability Education (3-**

**6) Prerequisites:** A valid teaching certificate and one year of successful teaching experience. This course provides experiences for the candidate to teach, to plan and to conduct staff development programs, to develop instructional materials for high ability students, and to conduct evaluation of student learning and program effectiveness.

**SPD 663 Applied Research (3) Prerequisites:**

Admission to special education MSE degree program and advisor's approval. **Special Educator option or Instructional Manager option:** This course provides for a laboratory or field setting in which students can implement the research data collection under the direction of the student's research committee. (Letter grade will be recorded)

**SPD 667 Multicultural Aspects of Curriculum Planning for**

**Exceptional Learners (3)** Understanding the individual educational needs of culturally and linguistically diverse exceptional students. Multicultural bilingual special education, academic skill acquisition, linguistic diversity, (including but not limited to African American, Hispanic, Asian American, and Native American), and testing/identification discrimination issues are studied.

**SPD 699 Thesis (3-6) Prerequisites:**

EDU 650, SPD 663, admission to special education MSE degree program, advisor approval and approval by the student's research committee. The research question will be approved by the student's research committee during enrollment in EDU 650. The student will write the thesis and defend it before the student's research committee and the WSC community.

## GRADUATE STUDIES

Wayne State College is authorized to grant four graduate degrees: Master of Science in Education, Education Specialist in School Administration/Educational Leadership, Master of Business Administration and Master of Science in Organizational Management. Students interested in pursuing graduate studies in education should contact the School of Education and Counseling or the Graduate Office. Students interested in pursuing graduate studies in business should contact the School of Business and Technology or the Graduate Office. Students interested in pursuing graduate studies in organizational management should contact the School of Natural and Social Sciences or the Graduate Office. The standard procedures and requirements for graduate programs are included in this section of the catalog. Students are also responsible for any general requirements of WSC stated earlier in this catalog.

### ***Objectives***

WSC's Graduate Programs are designed to expand the student's understanding of contemporary society through a full application of the student's culture and its world relationships, to increase the student's knowledge in a particular area, to deepen the student's personal values and to broaden his/her basic philosophy, to encourage the student's concern for independent investigation and experimentation, to refine the student's skills in oral and written expression and in the reflective thinking processes, and to provide students with intellectual stimulation and a foundation for continued study leading to the doctoral degree.

### ***Student Appeals Process***

The policy-making body for the graduate program is the Graduate Council, which is responsible to the Graduate Faculty. Recommendations for degree requirements and curriculum originate with the Graduate Council, subject to review by the Graduate Faculty, and require action by the President and the Board of Trustees of Nebraska State Colleges. Students who wish to appeal a decision or action must approach the following people/groups in this order: Department Chair, the appropriate Committee within the School (MBA students-MBA Appeals Committee; MSE & Ed.S. students-Professional Progress Committee, MSOM students-MSOM Appeals Committee), the Dean, the Graduate Council (through the appropriate School office), and finally the Vice-President for Academic Affairs. The decision reached by the Vice-President for Academic Affairs is final.

### ***Total Credits and Residence***

A minimum of 30-48 credit hours, depending upon the program, must be completed. The last eight credit hours must be taken at WSC regardless of the degree option. The graduate student must complete at least 55% of the course work from full-time WSC faculty to meet the residency requirement.

## Graduate Admission / Registration

### ***All Graduate Students***

Students may enroll in graduate courses after they have made application for graduate study. The procedure requires that students complete the Graduate Application for Admission and health form, and that they request an official transcript from the undergraduate institution conferring the baccalaureate degree be sent directly to the Admissions Office. Students who wish to be admitted to a graduate degree program should have the baccalaureate degree from an accredited institution.

A student with a baccalaureate degree from an institution which is not accredited by one of the six regional associations of colleges and schools may be accepted conditionally, subject to an evaluation after the completion of requirements for formal admission to a graduate degree program.

Students also need to meet the specific admission requirements listed for each program in addition to the general requirements listed below.

### ***International Students***

International students wishing to be admitted to WSC must submit the following: application fee, academic records, TOEFL score reports, other special tests (GRE, GMAT, ACT, etc.), letter of recommendation, 300-500 word handwritten statement, and evidence of financial support.

International students must demonstrate proficiency in oral and written English before admission to a degree program. In addition, they must present official credentials of all course work. They must contact the Admissions Office and the appropriate School office at least a semester before they wish to enroll.

International graduate students entering WSC may be required to enroll in transitional courses based on the recommendations/reports of professional and certified credential evaluation services (i.e., Educational Credential Evaluators (ECE), World Education Services (WES), etc.) to ensure the student has the appropriate undergraduate background to be successful in his/her graduate course of study. Full-time status for graduate students is 9 credit hours. On-campus employment pursuant to the terms of a scholarship, fellowship, or assistantship is deemed to be part of the academic program of a student otherwise taking a full course of study and may be counted toward full-time status according to federal regulations – contact the International Student Advisor for clarification and guidelines.

### ***Advisors***

At the time of admission to a degree program, the appropriate academic school will assign to the student a faculty advisor whose function is to help in selecting a program of study, render guidance and support whenever possible, and represent the student in any matter pertinent to his/her graduate program. Students may request a new advisor at any point during their program.

### ***Transfer Credit***

Credit that has been applied toward an earned degree from any college will not be accepted for advanced studies for a master's or education specialist's degree at WSC. Credit earned through correspondence courses will not be accepted.

Graduate students may petition to challenge for credit and/or evaluation of transfer credit, not to exceed the established transfer guidelines, with the approval of the appropriate program faculty, department chair, and the Dean of Education and Counseling, the Dean of Business and Technology, or the Dean of Natural and Social Sciences.

#### MBA Program:

A maximum of nine graduate credits (15 from another Nebraska State College or University), subject to evaluation by the Dean of Business and Technology, may be transferred from another graduate institution and applied toward a degree from this College. Only transfer credit of "B" grade or better will be accepted. A "B-" is not acceptable.

#### MSE/Ed.S. Programs:

A maximum of nine graduate credits (15 from another Nebraska State College or University), subject to evaluation by the Dean of Education and Counseling, may be transferred from another graduate institution and applied toward a degree from this College. Only transfer credit of "B" grade or better will be accepted. A "B-" is not acceptable.

No more than one-half of the content area course work for the education core course work may be transfer credit, except in programs defined by a specific articulation agreement. For more information on articulation agreements, contact the appropriate School office.

#### MSOM Program:

The students may, upon approval of their respective college graduate committees, transfer up to eighteen (18) credit hours from any of the other Nebraska State Colleges into a program. The courses will need to be identified and made a part of the program of study developed by the graduate committee and the student prior to acceptance into the program of study.

Nine (9) credit hours of transfer credits would be accepted from all other regionally accredited graduate schools throughout the United States. Credit from international institutions will be examined and addressed on an individual basis by the Dean of Natural and Social Sciences and the graduate committee assigned to the student. In such cases, no more than the equivalent of nine (9) credit hours will be accepted into this degree program.

Only transfer credit of "B" grade or better will be accepted from colleges and universities other than another Nebraska State College or University. A "B-" is not acceptable.

### ***Graduate Teaching Assistantships***

WSC is authorized to award Graduate Assistantships in each graduate major field. These assistantships provide a stipend for the academic year, plus tuition, and permit the holder to enroll for no more than nine (9) credit hours of graduate course work while completing a teaching or non-teaching assignment. The load for a student assigned to an academic area will be a) teaching the equivalent to six (6) credit hours at the undergraduate level, or b) providing non-teaching program assistance, approximately 16-20 clock hours, or c) completing an equivalent combination of teaching and non-teaching assignments. The load for a student assigned to a non-academic area will be determined by the appropriate Vice President.

Consideration for Graduate Assistantships is given only to applicants who plan to earn the graduate degree at WSC. Candidates must have an above average scholastic record and appropriate recommendations. Prior teaching experience is preferred.

Applications for the assistantships must be submitted to the Graduate Office at the College by April 1 for the following school year. The assistantships awarded for the following year will be announced during the spring semester.

### ***Academic Load***

The maximum load of graduate credit hours for graduate students, without special permission, is 9 hours during regular sessions, 4 hours during the May session, and 7 hours during the June and July sessions. A graduate student who wishes to register for more than the maximum number should consult with his/her advisor, then contact the appropriate School office for approval and forward that information to the Office of Records and Registration. Full-time status for graduate students is 9 credit hours.

### ***Grades***

A minimum overall average of "B" (3.00 on a 4.00 scale) will be required of all graduate students. This average is based on all of the WSC courses attempted. In computing this average, no WSC grade below a "C" will be accepted toward the completion of the advanced degree. A "C-" is not acceptable. A course receiving an S/NC grade cannot be used in a Master's or Specialist degree program.

### ***Satisfactory Progress***

Graduate students working on a graduate degree must maintain an overall GPA of 3.0 to continue in good standing. Graduate students who do not maintain an overall GPA of 3.0 will be placed on probation for the next 6 credit hours. If they fail to raise their GPA to a 3.0, they will be removed from their program. Appeals may be made to the appropriate School office and subsequently to the Graduate Council.

### ***Time Limit***

Commencing with the date of first course registration, all requirements for the degree must be met within seven (7) calendar years. Courses can be no more than 7 years old at the time of graduation.

### ***Application for Graduation***

Students must file an Application for Graduation with the Graduate Office no later than the end of the second week of the semester in which they intend to graduate. All other requirements, including completion of in-progress grades from previous terms, must be met by the end of the sixth week of the semester of graduation.

Summer graduates with no more than six credit hours of course work and/or an internship remaining to complete their degree during the summer are eligible to participate in May commencement ceremonies. All other requirements, such as file paper, comprehensive examination, portfolio, etc., must be completed by the set dates as if they were a May graduate.

## **Graduate Student Classification**

### ***Undergraduate Preparation***

Students who wish to be admitted to a graduate degree program should have the baccalaureate degree by having completed a program of courses in the areas of General Education and a major field at an accredited institution authorized by law to grant such a degree. Students who graduate with a liberal arts degree without teaching credentials and now intend to enter the teaching profession will be advised to follow an endorsement program which will qualify them for certification in Nebraska and at the same time enable them to complete some requirements for a Master of Science in Education degree.

A student with a baccalaureate degree from an institution which is not accredited by one of the six regional associations of colleges and schools may be accepted conditionally, subject to an evaluation after the completion of requirements for formal admission to a graduate degree program.

### ***Wayne State Seniors***

Seniors enrolled at WSC who are within their last two semesters of completing requirements for the baccalaureate degree may enroll for graduate study if they meet the other requirements for graduate admissions as determined by the appropriate School Dean. They are limited to fifteen (15) total hours for the term and a maximum of six (6) graduate hours earned prior to completing their baccalaureate degree. Notification of approval from the student's advisor, appropriate Department Chair and School Dean for the graduate class(es) must be submitted to the Registrar.

### ***Degree Graduate Students***

Students pursuing a program of study leading to the master's or education specialist degree are considered to be degree graduate students. In order to be so classified, a student must have fulfilled all criteria set forth under the catalog section titled Graduate Admission/Registration.

### ***Non-Degree Graduate Students***

Non-degree students are those students who do not intend to work toward the master's degree or specialist's degree, or those not permitted to do so.

### ***Specialization***

All four graduate degrees, the MBA, MSOM, MSE, and Ed.S, allow for some manner of specialization. The focus of a graduate student's program should be decided, with the aid of a faculty advisor, as early as possible. For instance, a student wishing to specialize in accounting should contact the Director of the MBA program for approved accounting electives.

### ***MBA Degree Admission Criteria***

Applicants will be screened and evaluated on a number of factors that demonstrate high promise for academic achievement. Each applicant must be approved by the Director of the MBA program and the Dean of Business and Technology. All of the following factors are considered together in granting admission to the program.

1. Admission is determined primarily by a combination of upper level undergraduate GPA and score on the Graduate Management Admission Test. The student must have: 1,000 points or more based upon the following formula: 200 times the upper level GPA (4.00 system) plus the GMAT score or 950 points based on the formula: 200 times the overall GPA plus the GMAT score. Candidates must receive a minimum GMAT score of 450.

2. Other measures or indicators of high promise that will be reviewed are:
  - a. Names and addresses of three references
  - b. Relevant work and leadership experience
  - c. Performance on other testing devices
  - d. Rank in graduating class
3. Where the applicant's undergraduate record is unclear, a written qualifying examination may be required in one or more business disciplines.
4. Any applicant not meeting the above requirements may be fully admitted by special action of the MBA graduate committee. Students must meet the criteria for full admission or be fully admitted by special action before enrolling beyond nine credit hours.
5. Students taking MBA core courses must be either temporarily or fully admitted to the MBA program.

### ***MSOM Degree Admission Criteria***

1. One official set of transcripts from the undergraduate institution conferring the baccalaureate degree must be sent directly to the WSC Admissions Office.
2. All graduate students seeking an MSOM degree must submit scores on the Graduate Record Examination (GRE) General Test within the first semester of enrollment. GRE scores will be used as an assessment tool along with other criteria to determine admission status. Each program will determine the manner in which the requirement is to be administered. See the specific information for each program concerning these admission requirements. The test may be taken at any Educational Testing Service testing center. Further information concerning the administration of the GRE may be obtained through the Graduate Office. Students seeking to enroll in a Master's degree program without GRE scores may be provisionally admitted for one (1) semester.
3. Students must present an undergraduate GPA of 2.75 or higher on a 4.00 scale for regular admission. Students with an undergraduate GPA below 2.75 may be admitted provisionally with a review of their status after completing 9 hours of graduate work.
4. Students may be required to take certain undergraduate courses if their undergraduate preparation is determined to be deficient by the advisor or department chairperson.

### ***MSE or Education Specialist's Degree Admission Criteria***

1. One official set of transcripts from the undergraduate institution conferring the baccalaureate degree must be sent directly to the WSC Admissions Office. One official set of transcripts from the institution conferring the master degree must be sent directly to the WSC Admissions Office.
2. All graduate students seeking an MSE or Specialist's degree must submit scores on the Graduate Record Examination (GRE) General Test. GRE scores will be used as an assessment tool along with other criteria to determine admission status. Each program will determine the manner in which the requirement is to be administered. See the specific information for each program concerning these admission requirements. The test may be taken at any Educational Testing Service testing center. Further information concerning the administration of the GRE may be obtained through the School of Education and Counseling or the Graduate Office. Students seeking to enroll in a Master's degree program without GRE scores may be provisionally admitted for one (1) semester.
3. Students must supply the names and contact information of three references. At least one reference should be familiar with the student's academic potential.
4. Students must present an undergraduate GPA of 2.75 or higher on a 4.00 scale for regular admission. Students with an undergraduate GPA below 2.75 may be admitted provisionally with a review of their status after completing 9 hours of graduate work.
5. Students who graduate with a liberal arts degree without teaching credentials and now intend to enter the teaching profession will be advised to follow an endorsement program which will qualify them for certification in Nebraska and at the same time enable them to complete some requirements for a Master of Science in Education degree.

### ***Non-Degree Admission Criteria***

#### ***Renewal of teaching certificate***

If a student is not a WSC graduate, the Admissions Office must receive a Graduate Application for Admission and one official transcript reflecting possession of a baccalaureate degree sent directly from the undergraduate institution. Students need to have renewal courses approved by the Certification Officer before actually enrolling. Nebraska Department of Education certificate renewal application must be processed through the WSC Field Experience and Teacher Certification Office.

#### ***Program leading to an additional baccalaureate degree, major, or teaching endorsement***

Students who wish to complete the requirements for an additional endorsement, major, or baccalaureate degree must file a graduate admission application form and have one official transcript of their undergraduate work sent to the Admissions Office directly from their undergraduate institution, unless they have graduated from WSC. Graduate students working on initial endorse-

ments/certification programs must be admitted to the WSC teacher education program. A minimum of 30 semester hours must be earned at WSC to receive a second baccalaureate degree. A minimum of 15 semester hours (excluding special endorsements) approved by the appropriate Dean must be earned at WSC to complete a major or teaching endorsement and have it noted on the transcript.

### ***Non-degree / Special Post-Graduate Student Status***

This status is for those students who intend to take an occasional course for personal enrichment or transfer to another institution. Since a public college has an obligation to make its resources available for a broad range of purposes not confined to the pursuit of specific degrees, anyone holding an accredited baccalaureate or professional degree may register for individual courses at the graduate level without making application to a degree program. Submission of an official transcript is optional, but recommended if you indicate this type of admission. Special Post-Graduate students must meet prerequisite conditions, as determined by the instructor, for admission into specific courses. Special Post-Graduate students are not admitted to the Graduate School, they are only given permission to enroll in graduate courses. Should a Special Post-Graduate student wish to work toward a graduate degree, an additional endorsement, or certificate renewal at a later date, he/she will be required to apply for admission to a graduate program and file an official undergraduate transcript sent to the College directly from the degree-granting institution.

**Courses taken as a Special Post-Graduate student will be applicable to a graduate degree only with approval of a faculty advisor and permission from the appropriate School office.**

## **MASTER IN BUSINESS ADMINISTRATION (MBA) DEGREE**

School of Business & Technology  
Gardner Building

### ***Program Description***

The Master of Business Administration (MBA) is a professional graduate degree designed primarily to provide an intense educational experience for students who wish to assume positions of increasing responsibility in business.

The WSC MBA curriculum consists of two major components. The first component is described as "Common Body of Knowledge" (CBK) courses. This group of courses includes an introductory level course in each functional area of business. Students who have an undergraduate degree in business will typically have completed most, if not all, of these courses. The second curriculum component is the professional graduate courses.

The WSC MBA program requires 30 graduate credit hours. The MBA program is broad in nature and requires students to complete a structured program of one or more courses in each area of business, and also permits students to complete a small specialization in one area. It is designed for those who wish to further their professional development without terminating their employment.

### ***Program Objectives***

The objectives of the MBA program at WSC are two-fold: (1) to improve and enhance the management skills of professionals in business, industry and government; and (2) to develop future executive leadership. The emphasis in this program is on decision making, problem solving, understanding the role of business in society, and development of the students' capacity to progress to positions of executive responsibility.

### **MBA Degree**

Candidates for the MBA degree will enroll in the following program:

### **Non-Thesis Program**

The non-thesis option requires satisfactory completion of the 30 credit hour professional graduate program of study. No written thesis is required. An MBA student shall file with the

Graduate Office and the School of Business & Technology Office one acceptable graduate paper. The file paper is written in BUS 692 and must be accepted by the MBA file paper committee and filed in the WSC Graduate Office.

### ***General Degree Requirements***

#### **Total Semester Credits**

The MBA consists of a minimum of 30 semester credit hours.

#### **Grades**

A minimum overall average of "B" (3.00 on a 4.00 scale) will be required of all graduate students. This average is based on all courses attempted. In computing this average, no grade below a "C" for WSC courses will be accepted toward completion of the MBA. A "C-" is not acceptable. A course receiving an S/NC grade cannot be used in the MBA degree program. At least 30 credit hours must be beyond the common body of knowledge component in courses normally reserved for graduate students.

#### **Time Limit**

Commencing with the date of first course registration, all requirements for the degree must be met within seven (7) calendar years. Courses can be no more than 7 years old at the time of graduation.

#### **Final Examination**

No comprehensive final examination is required. However, BUS 692 Administrative Policy will be utilized as a capstone course for all MBA candidates.

### ***Program Admission Criteria***

Applicants will be screened and evaluated on a number of factors that evidence high promise of academic achievement. Each applicant must be approved by the Director of the MBA program and the Dean of Business and Technology. All of the following factors are considered together in granting admission to the program.

1. Admission is determined primarily by a combination of upper level undergraduate GPA and score on the Graduate Management Admission Test. The student must have: 1,000 points or more based upon the following formula: 200 times the upper level GPA (4.00 system) plus the GMAT score or 950 points based on the formula: 200

times the overall GPA plus the GMAT score. Candidates must achieve a minimum GMAT score of 450.

2. Other measures or indicators of high promise that will be reviewed are:
  - a. Names and addresses of three references
  - b. Relevant work and leadership experience
  - c. Performance on other testing devices
  - d. Rank in graduating class
3. Where the applicant's undergraduate record is unclear, a written qualifying examination may be required in one or more business disciplines.
4. Any applicant not meeting the above requirements may be fully admitted by special action of the MBA graduate committee. Students must meet the criteria for full admission or be fully admitted by special action before enrolling beyond nine credit hours.
5. Students taking MBA core courses must be either temporarily or fully admitted to the MBA program.

### ***Undergraduate Preparation***

#### **Common Body of Knowledge (CBK)**

Each student is expected to have satisfactorily completed the following courses or their equivalent at the undergraduate level or complete the appropriate MBA foundation course:

	Semester credit hours
Accounting .....	3
Corporate Finance .....	3
Economics .....	3
Law .....	3
Management .....	3
Marketing .....	3
Statistics .....	3

While each candidate who is accepted in the MBA program must be responsible for the Common Body of Knowledge subject matter, reasonable flexibility in the administration of the program is observed. Each student's background is considered so that a program can be built upon undergraduate work in business, arts and sciences, engineering, and certain other fields. Professionals with extensive business experience are encouraged to remove any deficiencies through institutional examination or CLEP.

#### **Program Of Study**

##### **MBA Core\* (all courses required): 24 hours**

BUS 608 Financial Administration .....	3
620 Managerial Communications .....	3
625 Decision Science .....	3
652 Management Accounting .....	3
656 Marketing Administration .....	3
690 Seminar in Organizational Behavior .....	3
692 Administrative Policy .....	3
ECO 650 Managerial Economics .....	3
MBA Electives** .....	6

\*MBA core courses open to graduate students only.

\*\*MBA electives consist of any 6 semester credit hours from approved courses offered at the 600-level. MBA foundation courses cannot be used as electives.

### ***MBA Program Procedures And Regulations***

#### **Admission**

Each new student is required to file the following:

1. A Graduate Application for Admission form and admission fee sent to the WSC Admissions Office (no fee required for previous WSC students).
2. An official transcript of undergraduate and graduate study sent directly from the awarding institutions to the WSC Admissions Office (not required if all previous work is from WSC).
3. GMAT test scores sent to the WSC Graduate Office. These scores must be on file prior to the completion of nine credit hours.
4. Names and addresses of three references sent to the WSC Graduate Office.

International students should refer to the Graduate Admission/Registration section of the WSC catalog for TOEFL and other specific admission requirements.

The Graduate Management Admission Test (GMAT) is an internationally-offered exam. The GMAT Information Bulletin forms are available online at <http://www.mba.com/mba/TheGMAT/GMATInformationBulletin/>.

#### **CLEP**

The College Level Examination Program (CLEP) is available at WSC. CLEP permits students to test out of the following undergraduate business areas: economics, accounting, business marketing, business law, business management, and data processing/computers. For more information on CLEP, contact the WSC Counseling Center.

#### **Institutional Examination**

For those undergraduate business areas not covered by a CLEP exam, a student who is currently enrolled at WSC may challenge a course in which he/she feels competent. The student will then take an examination prepared by a faculty member in the undergraduate business area. MBA graduate courses may not be completed by institutional examination. For more information on institutional examination, contact the WSC Director of the MBA Program.

#### **Transfer of Credit**

A maximum of nine graduate credits (15 from another Nebraska State College or University), subject to evaluation by the Director of the MBA program and Dean of Business and Technology, may be transferred from another graduate institution and applied toward a degree. Only transfer credit of "B" grade or better is accepted. A "B-" is not acceptable. Credit that has been applied towards another earned degree from another college is not accepted for advanced study. Credit earned through correspondence courses is not accepted.

#### **Program of Study**

In the term of enrollment immediately prior to the term of graduation, the student should complete a finalized program of study form indicating the courses that have been agreed upon and approved by the advisor. A preliminary program of study must be filed by a student to have transfer credit accepted. All elective courses included in the program of study must be approved by the student's advisor upon transfer or prior to course enrollment. Unapproved electives may not be included in the student's program.

The graduate student must complete at least 55% of the course work from full-time WSC faculty to meet the residency requirement.

### **Course Prerequisites**

Students are not allowed to enroll for courses unless they have satisfied the necessary course prerequisites. The student should review the appropriate catalog descriptions and the following chart for prerequisite requirements:

#### **MBA Graduate Course Associated Common Body of Knowledge (CBK) Prerequisites**

BUS 608: CBK Accounting, Corporate Finance or BUS 507  
625: CBK Statistics or ECO 501  
652: CBK Accounting or BUS 507

656: CBK Marketing or BUS 509  
690: CBK Management or BUS 509  
692: All common body of knowledge and/or foundation courses and 24 hours completed in the MBA program  
ECO 650: CBK Economics or ECO 501

### **CPA 150-Hour Eligibility**

Those students desiring to enroll in the MBA program and satisfy the Nebraska 150-hour requirement to sit for the CPA exam should contact the Director of the MBA program for the appropriate information and advisement referral.

### **Governance**

The WSC MBA program is governed by the applicable information contained in the WSC Graduate Catalog. Students should review this catalog for general graduate program information.

## **MASTER OF SCIENCE IN ORGANIZATIONAL MANAGEMENT DEGREE (MSOM)**

**School of Natural and Social Sciences  
Connell Hall**

### ***Program Description***

The MSOM degree has been collaboratively designed by the three State Colleges (Wayne State College [WSC], Chadron State College [CSC], Peru State College [PSC]) and will substantially use courses currently offered by the State Colleges. Some courses are available online. The program is a cooperative degree program whereby students in the State College System may complete graduate courses at any of the Nebraska State Colleges and apply those credits toward completion of their M.S. degree. Prior learning credit would not be applied to this degree. This program is a value-added degree designed to add new knowledge to the students' base of knowledge, skills and concept integration.

The program will consist of a common core of required courses consisting of eighteen (18) credit hours. The required eighteen hours will include six (6) credit hours of research design and methods courses and twelve (12) credit hours of courses in organizational management.

### ***Program Objectives***

The specialization in Sports & Recreation Management is aimed at sports enthusiasts with undergraduate degrees in education, business, or the liberal arts who are ready to leverage a multidisciplinary graduate approach into a career in physical activity settings such as sports industry management, coaching, administration, or sports and recreation sales and marketing. This specialization offers students a market advantage by delivering business skills with practical industry knowledge and experience and includes any combination of skills related to planning, organizing, leading, and evaluating within the context of an organization or department whose primary product or service is related to sport and/or physical activity.

### ***General Degree Requirements***

### **Total Semester Credits**

A total of thirty-six (36) credit hours is required to complete the MSOM degree program.

### **Grades**

A minimum overall average of "B" (3.00 on a 4.00 scale) will be required of all graduate students. This average is based on all WSC courses attempted. In computing this average, no grade below a "C" will be accepted toward completion of the MSOM. A "C-" is not acceptable. A course receiving an S/NC grade cannot be used in the MSOM degree program. At least 30 credit hours must be beyond the common body of knowledge component in courses normally reserved for graduate students.

### **Time Limit**

Commencing with the date of first course registration, all requirements for the degree must be met within seven (7) calendar years. Courses can be no more than 7 years old at the time of graduation.

### **Oral Review & Final Examination**

Upon completion of fifteen hours, application for candidacy will be made through an oral review with the program faculty. Students will make a request for the oral review to the department chair just prior to the completion of fifteen hours.

Seven weeks prior to graduation each student is required to file for a written exam prepared by the appropriate department staff.

### ***Program Admission Criteria***

1. One official set of transcripts from the undergraduate institution conferring the baccalaureate degree must be sent directly to the WSC Admissions Office.
2. All graduate students seeking an MSOM degree must submit scores on the Graduate Record Examination (GRE) General Test within the first semester of enrollment. GRE scores will be used as an assessment tool along with other criteria to determine admission status. Each program will determine the manner in which the requirement is to be administered. See the specific information for each program concerning these admission requirements. The test may be taken at any Educational Testing Service testing center. Further information concerning the administration

of the GRE may be obtained through the Graduate Office. Students seeking to enroll in a Master's degree program without GRE scores may be provisionally admitted for one (1) semester.

3. Students must present an undergraduate GPA of 2.75 or higher on a 4.00 scale for regular admission. Students with an undergraduate GPA below 2.75 may be admitted provisionally with a review of their status after completing 9 hours of graduate work.
4. Students may be required to take certain undergraduate courses if their undergraduate preparation is determined to be deficient by the advisor or department chairperson.

**Program Concentrations**

Students interested in pursuing the Master of Science in Organizational Management may choose from one of the following concentrations:

- 1) Sport and Recreation Management
- 2) Information Technology Management

**Program of Study**

**MSOM Core: 18 hours**

**Student must complete one of the following courses:**

CA	530	Communctn Research Methods (CSC)...	3
EDCI	631	Intro to Graduate Study (CSC).....	3
EDU/PED	650	Research Design (WSC) .....	3
MGMT	601	Study Design & Data Collectn (PSC)....	3

**Student must complete one of the following courses:**

MATH	533	Stats Methods/Data Analysis (CSC) .....	3
MGMT	602	Stats Methods/Data Analysis (PSC).....	3
PED	622	Stats Applctns/Data Analysis (WSC)....	3
PSYCH	538	Behavioral Statistics (CSC).....	3

**Student must complete four of the following courses:**

BUS	620	Managerial Communications (WSC)....	3
BUS	690	Seminar in Organztnl Behavr (WSC) ....	3
CA	630	Organizational Communications (CSC) 3	
CNA	548	Organizational Communictn II (WSC)...	3
CS	610	Conflict Resolutn & Mediatn (CSC).....	3
CTE	632	Organizational Leadership (CSC).....	3
ENG	527	Academic & Professnl Writing (WSC)...	3
MATH	631	Mathematics for Management (CSC) ....	3
MGMT	550	Orgnztnl Mgmt Devlp & Change (PSC) 3	
MGMT	551	Program Evaluation (PSC).....	3
MGMT	552	Mgmt of Innovation & Growth (PSC) ...	3
MGMT	553	Conflict Mgmt & Mediation (PSC).....	3
MGMT	620	High Performance Leadership (CSC) ....	3
MGMT	630	Organizational Behavior (CSC) .....	3
POS	510	Public Policy Analysis/Prog Eval (WSC)....	3
POS	530	Public Policy .....	3
PSY	535	Industrial/Organizatnl Psych (WSC).....	3
PSYCH	541	Advanced Organizatnl Psych (CSC).....	3

**MSOM Focus Area: 18 hours**

Thesis, scholarly project, or internship .....	6
Focus or specialized area of concentration .....	12

The program will also require the completion of a six (6) credit hour thesis, scholarly project, or internship requirement, or a combination scholarly project/internship. The focus of this part of the program will be to emphasize knowledge integration

and application of learned principles.

In addition to the required core and thesis/internship/project, completion of twelve (12) credit hours in a focused or specialized area of concentration in a field chosen by the student and his or her graduate committee will also be required. The four (4) areas of concentrated study from which students may choose will consist of specialized courses in a number of professional areas. Included in the twelve (12) credit hours of focused study will be three (3) credit hours in a management related course and nine (9) elective hours to be determined by the graduate committee and the student.

**Program Objectives for Information Technology Management:**

The specialization in Information Technology Management has as its target audience those who are employed in business, education, government, or other types of organizations. It is designed for those who must deal with or manage information technology as a part of their job in a functional area or as the sole focus of their employment. This specialization offers a market advantage by delivering the information technology management and business skills, as well as practical knowledge and experience necessary to prepare students to be able to adequately plan, deploy, manage, evaluate, and supervise the operational, tactical, and strategic uses of technology in their organizations and functional areas.

**Information Technology Management Concentration: 12 hours**

*CIS	530	Management Information Systems .....	3
*CIS	575	Topics in Computer Info Systems .....	3
*CIS	577	Project Management.....	3
CIS	632	Info Syst Technology and Management.3	

All offered at WSC

\*WSC baccalaureate business, computer information systems, or computer science students who have already completed the undergraduate equivalent of these courses will substitute other courses by advisement for these courses.

**Program Objectives for Sport & Recreation Management:**

The specialization in Sports & Recreation Management is aimed at sports enthusiasts with undergraduate degrees in education, business, or the liberal arts who are ready to leverage a multidisciplinary graduate approach into a career in physical activity settings such as sports industry management, coaching, administration, or sports and recreation sales and marketing. This specialization offers students a market advantage by delivering business skills with practical industry knowledge and experience and includes any combination of skills related to planning, organizing, leading, and evaluating within the context of an organization or department whose primary product or service is related to sport and/or physical activity.

**Sport and Recreation Management: 12 hours**

*PED	564	Facility Mgt in Sport/Wellness .....	3
*PED	585	Sport in American Culture .....	3
PED	605	The Economy of Sport .....	3
PED	610	Legal Aspects of Sport .....	3
PED	612	Adv Sport Marketing & Promotion .....	3
PED	631	Seminar in Sport Management.....	3
PED	653	Program Mgmt & Transition of Sport ...	3

PED 671 Recent Lit & Research in HHPS.....3  
 All offered at WSC

\* WSC baccalaureate Sport Management graduates will substitute other courses by advisement for these courses.

**MSOM Program Procedures and Regulations**

**Admission**

Each new student is required to file the following:

1. A Graduate Application for Admission and admission fee sent to the WSC Admissions Office (no fee required for previous WSC students).
2. An official transcript of undergraduate and graduate study sent directly from the awarding institutions to the WSC Admissions Office (not required if all previous work is from WSC).
3. GRE test scores sent to the WSC Graduate Office within the first semester of enrollment. Students seeking to enroll in a Master’s degree program without GRE scores may be provisionally admitted for one (1) semester.
4. Names and addresses of three references sent to the WSC Graduate Office. International students should refer to the Graduate Admission/Registration section of the WSC catalog for TOEFL and other specific admission requirements.

**Transfer of Credit**

A maximum of nine graduate credits (15 from another Nebraska University or 18 from the Nebraska State Colleges), subject to evaluation by the Dean of Natural and Social Sciences, may be transferred from another graduate institution and applied toward a degree. Only transfer credit of “B” grade

(a “B-” is not acceptable) or better is accepted from institutions other than the Nebraska State Colleges. Credit that has been applied towards another earned degree from another college is not accepted for advanced study. Credit earned through correspondence courses is not accepted.

**Program of Study**

In the term of the enrollment immediately following admission to a graduate degree program, the student should complete a Program of Study indicating the courses that have been agreed upon and approved by the advisor and department chair. Program of Study forms may be obtained from the student’s advisor, Graduate Office or appropriate School office. After the forms are completed, they should be signed by the specified individuals. Students wishing to make changes in their Program of Study need approval of their advisor, department chair, and the Dean of Natural and Social Sciences. Substantial changes may require a new Program of Study form. The graduate student must complete at least 55% of the course work from full-time WSC faculty to meet the residency requirement.

**Course Prerequisites**

Students are not allowed to enroll for courses unless they have satisfied the necessary course prerequisites. The student should review the appropriate catalog descriptions.

**Governance**

The WSC MSOM program is governed by the applicable information contained in the WSC Graduate Catalog. Students should review this catalog for general graduate program information.

**MASTER OF SCIENCE  
 IN EDUCATION (MSE) DEGREE**

**School of Education & Counseling  
 Brandenburg Education Building**

**Overview**

The School of Education and Counseling at WSC offers a Master of Science in Education (MSE) degree to meet the needs of diverse groups of graduate students. While the School of Education and Counseling assumes that most candidates for this degree come from the ranks of professional educators, individuals not holding teaching credentials may be considered for admission to a program provided they meet all admission criteria. It should be noted that conferral of the MSE does not necessarily lead to a professional teaching endorsement.

**Conceptual Framework**

The creation and delivery of all graduate programs in education are guided by a conceptual framework which stipulates that program graduates will be educational leaders and stewards inquiring, reflecting, and implementing innovative solutions through teaching, learning and service. All students must demonstrate growth in the following graduate outcomes.

1. Candidates inquire about relevant educational issues and support present practices or initiate constructive changes.
2. Candidates reflect on relevant educational issues with breadth, depth, and rigor ensuring improvement and

encouraging excellent implementation of professional practices.

3. Candidates implement responsible change in a supportive manner meeting the needs of individuals and communities empowering them for continuous growth.
4. Candidates create, organize, maintain, and evaluate caring communities providing leadership and stewardship for educational endeavors.
5. Candidates communicate effectively providing leadership and stewardship for educational individuals and communities.
6. Candidates possess and demonstrate the values, demeanor, and reflective decision-making of leaders and stewards of the profession.

**MSE Programs**

Students interested in pursuing the Master of Science in Education degree may choose from one of the following programs described in greater detail below.

- 1) School Administration
- 2) Counseling
- 3) Exercise Science
- 4) Special Education
- 5) Curriculum and Instruction

Each of the five MSE programs has a professor-in-charge who can be contacted for specific program information. To find out who currently serves as the professor-in-charge, contact the School of Education and Counseling.

### ***Degree Options***

In developing a program of study, graduate students may select from two different program options, thesis or non-thesis. To change from one program option to another—after the program has commenced—the student must have the approval of the Dean of the School of Education and Counseling.

#### **Thesis Option**

The thesis option requires a minimum of 30 credit hours of course work plus 6 credits for the thesis. The thesis must be written in the area of specialization; the credit, however, may be applied toward the major field or electives.

**Thesis Committee.** The advisor should assign a thesis committee (three members of the appropriate department and one member of another school) as soon as practical and subsequently notify the School of Education and Counseling and the Graduate Office. Also, unless prior arrangements are made, the advisor should arrange for the thesis oral examination and notify the appropriate officials of the time, dates, and results.

**Thesis Style.** All theses must conform to the style prescribed by the Graduate Council. The American Psychology Association, Modern Language Association and Kate Turabian, *A Manual for Writers* (latest edition) have been adopted by the Council. Any deviation from the recommended style must have prior approval of the advisor and the Dean of Education and Counseling.

#### **Non-Thesis Option**

The non-thesis option requires a minimum of 36 credit hours of course work plus placing one graduate research paper on file in the Graduate Office. *Note: The non-thesis option is not available for the MSE in Special Education.*

The non-thesis student shall file with the Graduate Office, School of Education and Counseling and the appropriate school office a minimum of one acceptable graduate paper.

The file paper requirement is defined as follows: one acceptable graduate paper, project, or portfolio which meets all

three of the following criteria: (1) demonstrates knowledge of research and research skills; (2) demonstrates depth of thought, organization, and competence in the discipline; and (3) demonstrates writing proficiency at the graduate level.

The file paper must be placed on file in the Graduate Office 28 calendar days prior to the anticipated date of graduation. The paper filed must be an original copy, contain a signature sheet, and be signed by the student, advisor, department chair, school dean, Director of Graduate Studies, and the Dean of Education and Counseling.

#### **Degree Candidacy**

Only after students have achieved formal admission to a graduate degree program, filed the program of study, filed one 600-level research paper, or other appropriate degree option evidence, will they be considered candidates for the degree. Candidacy is automatic when the above items have been met. Students will be awarded the degree after they earn graduate candidacy status, complete an application for graduation, and observe the additional provisions that may apply under the heading “General Degree Requirements.”

#### ***General Degree Requirements***

The professional education core acts as the intellectual foundation for the Master of Science in Education degree. Core requirements vary by program and area of emphasis, but are generally between 6 and 15 credit hours and are usually chosen from EDU 603, 626, 627, 650, 658, and 674. Prospective graduate students should contact the professor-in-charge to learn more about specific core requirements. Any substitution for core courses requires approval of the Dean of Education and Counseling.

#### **Grades and Course Numbers**

No grade below a “C” (C- will not be accepted) in a WSC graduate level course (500, 600, 700) will be accepted toward

### **Requirements for the Master of Science In Education Degree**

Action	Office	Time
1. File Application form, and one official transcript	Admissions Office	At least two weeks before registration.
2. Graduate Record Exam	Graduate Office	At initial registration time file for the GRE exam to be completed before earning 9 hours of course work.
3. File program of study	Graduate Office	Before completing 15 credit hours.
4. Department meeting; file approval form. Admission to degree candidacy	Department Chair, Graduate Office	Immediately after completing 15 credit hours.
5. File one 600-level paper	Graduate Office	The file paper must be placed on file in the Graduate Office 28 calendar days before anticipated date of graduation.
6. File for graduation	Graduate Office	No later than the end of the second week of the semester in which the student intends to graduate.
7. File for final program comprehensive examinations	Department Chair, Graduate Office	Request to take comprehensive examination signed and filed in the Graduate Office 2 weeks before the examination; results must be filed in the Graduate Office 28 days before anticipated date of graduation.
8. File for portfolio examination	Department Chair, Graduate Office	Request for Portfolio Review signed and filed in the Graduate Office the semester in which Portfolio will be reviewed. Portfolio results must be on file in the Graduate Office 28 days before anticipated date of graduation
9. File original and 3 copies of thesis and abstracts	Graduate Office	The thesis must be submitted to the Graduate Office 28 calendar days before anticipated date of graduation.

completion of a Master's degree program. A minimum cumulative GPA of 3.00 must be achieved for a graduate program. A course receiving an S/NC grade cannot be used in a Master's degree program. At least half of the total graduate credits shall be in 600-level or greater courses for the Master's degree.

### **Time Limit**

Commencing with the date of first course registration, all requirements for the degree must be met within seven (7) calendar years. Courses can be no more than 7 years old at the time of graduation.

### **Final Project**

A final project is defined as at least one acceptable graduate paper, project, portfolio, and/or comprehensive examination, which meets all three of the following criteria: (1) demonstrates knowledge of research and research skills, (2) demonstrates depth of thought, organization and competence in the discipline, and (3) demonstrates writing proficiency at the graduate level. Students with questions about the final project should contact their advisor.

### **Program of Study**

In the term of the enrollment immediately following admission to a graduate degree program, the student should complete a Program of Study indicating the courses that have been agreed upon and approved by the advisor and department chair. Program of Study forms may be obtained from the student's advisor, Graduate Office, or appropriate School office. After the forms are completed, they should be signed by the specified individuals. Students wishing to make changes in their Program of Study need approval of their advisor, department chair, and the appropriate Dean. Substantial changes may require a new Program of Study form.

The graduate student must complete at least 55% of the course work from full-time WSC faculty to meet the residency requirement.

### **Curricular Requirements**

All students working toward an MSE need a minimum of 36 credit hours including the appropriate program core. A maximum of 3 hours of Workshop credit (568 or 590) can be included on a program of study. At least half of the total graduate credits shall be in 600 level courses.

### **Master's/Certification For Liberal Arts Graduates**

Liberal arts graduates (B.A. or B.S.) who wish to enter the teaching profession at the elementary or secondary level may work toward teacher certification in Nebraska and at the same time complete requirements for the master's degree. Contact the Certification Officer for specific information.

Students completing a master's degree in an area in which they are not endorsed must also meet all requirements for certification in the public schools in Nebraska in that endorsement area. Please contact the College Certification Officer for further information.

### **Teaching Endorsements/Certification**

Graduate students may complete requirements for an endorsement at the same time they earn the master's degree; endorsements are also available to students who have already earned master's degrees. Graduate students preparing for initial certification may select from either subject or field endorsements or a combination thereof, but must declare at least one

endorsement. Special endorsements may be added to field or subject endorsements as appropriate (see full listing in the Teaching Programs section of this catalog). Students should file the following forms with the WSC Admissions Office: (1) a Graduate Application for Admission and fee, and (2) one official complete transcript of their academic work sent directly from their other institutions to the WSC Admissions Office. Endorsement plans and requirements are processed through the department in which the work is being taken and with the Field Experience and Teacher Certification Office. Students are to meet as early in their programs as possible with the Field Experience and Teacher Certification Office, Brandenburg Education Building.

## ***Counseling***

### **Counseling & Special Education Department Brandenburg Education Building**

#### **Counselor Education**

The master's degree program in counseling is a CACREP-based model (Council for Accreditation of Counseling and Related Educational Programs) designed to facilitate the development of professional competencies required for the delivery of counseling services within a school, community, or higher education setting. The program is accredited by the National Council for the Accreditation of Teacher Education (NCATE).

#### **School Counseling Areas of Endorsement**

Endorsement as a school counselor is accomplished through the Department of Education in the state in which the school counselor is employed. For example, in Nebraska, certification requires the Master of Science in Education (MSE) degree in Counseling, a valid Nebraska teaching certificate, and verification of two years of successful teaching experience. Contact the Certification Officer, School of Education & Counseling, WSC for information about the requirements for an endorsement in school counseling.

1. Secondary Endorsement (7-12) will be granted to students completing the required courses with an internship experience in a secondary school setting. Secondary counselors will also complete CSL 644.
2. Elementary Endorsement (K-6) will be granted to those students completing the required courses with an internship experience in an elementary school setting. Elementary counselors will also complete CSL 641 and 643.
3. Double Endorsement (K-6, 7-12) will be granted to those students completing the required courses and two internship experiences, one semester in an elementary and one semester in a secondary school setting. Students will also complete CSL 641, 643, and 644.

#### **Counseling**

A student without a teaching certificate may also complete any school counseling program above and earn the MSE in Counseling. Some states (such as Iowa) allow individuals with this degree to serve as school counselors with the completion of a few additional courses. Students

will be required to sign a waiver that acknowledges that this degree alone will not make them eligible for a school counseling endorsement in Nebraska.

### **Clinical Mental Health Counseling**

A student may complete the MSE in Clinical Mental Health Counseling as a first step to earning a license to provide counseling services in public or private counseling agencies or in private practice.

### **Student Affairs Practice in Higher Education**

A student may serve as a counselor in a technical school, college, or university upon completion of this program of study. These counselors may also facilitate student transitions to professional education and career placement.

### **Licensure of Mental Health Practitioners and Certification of Professional Counselors**

Licensure as a mental health practitioner and certification as a professional counselor in Nebraska is accomplished through the Department of Health. Additional information can be obtained by contacting the Nebraska Department of HHS Regulation & Licensure, P.O. Box 95007, Lincoln, NE 68509-5007, calling 402-471-2115, or searching their website at <http://www.hhs.state.ne.us/crl/crlindex.htm>.

### **Typical Program of Study in Counselor Education 48-54 hours minimum**

Required courses for all areas of Counseling

Choose one of the following four EDU courses: ..... 2-3

EDU 626 Advanced Educational Psychology (3)	
627 Current Issues & Trends (2)	
658 Fundamentals of Curriculum Dev (3)	
674 History/Philosophy of Ed (3)	
EDU 650 Research Design.....	3
CSL 547 Multicultural Counseling .....	3
580 Prof Counselors/Ethical Standards.....	3
600 Theories of Counseling .....	3
615 Career Dev and Life Planning.....	3
625 Individual and Group Assessment.....	3
630 Develop Csl over the Lifespan.....	3
642 Consultation .....	2
665 Group Counseling .....	3
670 Org/Admin of Counseling Services .....	3
675 Diff. Diag. & Treatment Planning.....	3
685 Practicum in Counseling .....	3
686 Advanced Practicum.....	3

Internship Experience

CSL 697 Internship in Counseling..... 3-6

The setting of an internship must be specific to the type of MSE that is selected. Students must acquire hours to satisfy the appropriate certification and licensure requirements.

### **Additional Content Area Requirements for Elementary School Counselors (K-6)**

CSL 641 Counseling Children.....	1
643 Elementary School Counseling.....	1
Content Electives .....	0-3

### **Additional Content Area Requirements for Secondary School Counselor (7-12)**

CSL 644 Secondary School Counseling.....	1
Content Electives .....	0-4

### **Additional Content Area Requirements for Clinical Mental Health Counseling**

CSL 545 Clinical Issues in Chemical Dependency.....	2
641 Counseling Children.....	1
645 Marriage and Family Counseling.....	3
688 Crisis Intervention Counseling.....	2

### **Additional Content Area Requirements for Student Affairs in Higher Education**

CSL 646 Student Affairs in Higher Ed Cslg .....	2
Content Electives .....	0-4

### **Admission Phases of the Program**

Student progress is monitored at each of the following phases.

1. Admission to Graduate Studies. See the MSE or Education Specialist's Degree Admission Criteria section of this catalog. Following application for graduate study, an advisor from the Counseling Department will be assigned to work closely with each student to develop a program of study and provide academic advising during the course of studies. Admission to graduate study at WSC precedes application to the graduate degree program in Counseling. Graduates have seven years to complete a graduate program. The seven year period begins with the first course included in the Program.
2. Admission to the Program Area  
After admission to graduate studies, the student must apply for admission to the counseling program.
  - a. To request admission to the counseling program, the applicant must file a formal application with the Counseling Department during enrollment in CSL 600 or during the second semester of course work as a declared counselor degree candidate, whichever comes first.
  - b. The applicant must complete a notarized form showing compliance with felony and misdemeanor involving moral turpitude regulation (form must be filed in Field Experience Office; ANY further convictions must be brought to the attention of the Field Experience Office immediately after conviction).
  - c. The applicant will select two persons who are knowledgeable of personal qualities conducive to success within the counseling profession to send letters of recommendation on forms supplied by the department.
  - d. Prior to completion of 12 credit hours, the applicant must complete a program of study for a Master of Science in Education (MSE) degree in Counseling in consultation with an advisor in the Counseling Department.
  - e. Graduate Record Examination (GRE) scores must be sent before or during the first 9 credit hours of course work. The sum of the verbal score, quantitative score, and (100 X Analytical Writing Section) will be added to the student's undergraduate GPA times 100. The minimum cut-off score for the sum will be 1350.
  - f. Present the Fifteen-Hour Graduate Student Evaluation Form to your advisor when you have completed between 9 and 15 credit hours. This form will initiate the actions below for admission to the graduate counseling program.

- g. Students need a favorable recommendation by the Counseling Department faculty based on professional judgment of the applicant's ability to perform as a competent professional and maintain the degree of mental health and personal adjustment commonly expected in the counseling profession.
- h. The names of students who have completed all application materials and have been favorably recommended by the Counseling Department faculty will be submitted to the Professional Progress Committee (PPC) for approval. The applicant will be notified of the decision by letter from the Dean of Education and Counseling. Admission to the graduate degree program in counseling will become official once a letter of acceptance has been sent to the applicant. Applicants denied admission will also be notified by letter. Unsuccessful applicants may request a review or hearing before the Counseling Department faculty who will forward their recommendation to the Dean of Education and Counseling.
- Exceptions to the above criteria require exceptionality shown by the student in the areas of counseling skills and work experience, unanimous Counseling Department faculty approval, and approval of the Dean of Education and Counseling.
3. Admission to Candidacy for the Degree  
Eligibility for admission to candidacy for the MSE degree

- in Counseling is established when all of the following conditions have been met:
- Completion of all procedures for program admission.
  - CSL 600 Theories of Counseling: minimum grade of "B-".
  - CSL 685 Practicum in Counseling: minimum grade of "B-" and attain an ability to relate empathically and therapeutically.
  - CSL 686 Advanced Practicum in Counseling: minimum grade of "B-" and attain an ability to relate empathically and therapeutically.
4. Approval for Graduation
- Obtain a minimum grade of "B-" in CSL 697 Internship in Counseling and achieve an ability to initiate entry level skills expected of a beginning master's degree level counselor.
  - Maintain a minimum 3.0 cumulative GPA in all graduate course work based on a 4.0 scale.
  - Model ethical and personal behavior articulated in the American Counseling Association Code of Ethics and Standards of Practice. Compliance will be determined by the professional judgment of the counseling faculty.
  - Request approval to submit a portfolio in fulfillment of the requirement for a comprehensive examination in counseling. The portfolio must meet the criterion established by the Counseling Department.
  - Complete all requirements for graduation.

## ***Curriculum & Instruction***

### **Educational Foundations & Leadership Department Brandenburg Education Building**

The Curriculum and Instruction program is designed primarily for K-12 teachers who wish to remain in the classroom and combine a teaching enhancement program with educational leadership and curriculum development skills. ***Because there are a large variety of occupations that include educational dimensions, the Curriculum and Instruction program may appeal to some non-teachers as well, for it offers the widest array of graduate study possibilities here at WSC. It should be noted that conferral of the MSE in Curriculum and Instruction to non-teachers will not result in teacher certification.***

Students may combine a professional education core, usually selected from EDU 603, 626, 627, 650, 658, 674, with one of the areas of emphasis listed below:

Alternative Education  
Business and Information Technology Education  
Communication Arts Education  
Curriculum & Instruction (learning community delivery model)  
Early Childhood Education  
Elementary Education  
English Education  
English as a Second Language  
Family and Consumer Sciences Education  
Industrial Technology Education-Vocational Education  
Mathematics Education  
Music Education

#### Science Education

#### Social Sciences Education

Each of these areas of emphasis is directed by a professor-in-charge and each has a core curriculum component along with discipline-specific curricular expectations described below.

Students pursuing an MSE in Curriculum and Instruction will have dual advisors, one from the discipline-based content area and one for the professional education core. Both advisors will participate in the 15-hour evaluation and interview for admission to the program, and in the development of the program of study. Both advisors will also participate in the comprehensive examination development and grading.

#### **Requirements for Admission to Degree Program**

- Graduate from a regionally accredited college/university.
- Submit a Graduate Application for Admission and an official transcript of all previous college work to the WSC Admissions Office.
- Provide two recommendations from individuals who have observed your effectiveness in professional work.
- Have a 2.75 undergraduate GPA or above or have completed 12 graduate hours at WSC with a GPA of 3.25 or higher.
- Complete the Graduate Record Examination (GRE) before completing 9 credit hours.

#### **Areas of Emphasis**

##### **Alternative Education (15 hours)**

EDU 636 Introduction to Alternative Ed (3)

EDU 637 Program & Teaching Strategies for Atypical Populations (3)

EDU 638 Prac. for Alternative School Teachers (3)

Recommended Electives (6-9 hrs)

CNA 570 Family Communication (3)

CSL 540 Chemical Dependency Counseling (3)

EDU 655 School Law:Const Aspects & Cases (3)

EDU 657 School Organization & Administration (3)

SPD 530 Behavior Intervention for the Least Restrictive Environment (3)

### **Business and Information Technology Education (15-18 hours)**

Students pursuing the MSE in Curriculum and Instruction in Business and Information Technology Education must select either Business Education or Information Technology as an area of emphasis.

#### **Business Education Emphasis (15 hours)**

BUS 602 Issues in Business Education (3)

BUS 621 Seminar in Business Education Instr (3)

BUS 630 Workshop in Business Education (3)

BUS 640 Research in Business& Info Tech Education (3)

Elective (3) to be selected from the following offerings **OR** by advisement:

CED 650 Curric Developmt in Career/Technical Eductn (3)

CIS 575 Topics in CIS: Emerging Technologies (3)

CSC 548 Web and Multimedia Content Design (3)

EDU 682 Developing & Integrating Computer Applctns in the Classroom (3)

#### **Information Technology Emphasis (18 hours)**

**Note:** Students who have already completed any of the 400-level course counterparts of the 500-level courses in the Information Technology emphasis will be encouraged by advisement to select the Business Education emphasis instead.

BUS 640 Research in Business & Info Tech Education (3)

CIS 554 Tech Platforms, Hrdwre & Operating Systems (3)

CIS 557 Networking and Technology Management (3)

CIS 575 Topics in CIS: Emerging Technologies (3)

CSC 542 Program Design and Documentation (3)

CSC 548 Web and Multimedia Content Design (3)

Students who complete the Information Technology Emphasis **AND** complete 40 clock hours of documented clinical information technology experience at the elementary and/or secondary levels will have met the requirements for the Information Technology Supplemental Endorsement. It is the student's responsibility to contact the Wayne State College Computer Technology and Information Systems department for the appropriate forms for documenting the clinical experience before starting that experience.

#### **Communication Arts Education (15 hours)**

Selected from:

CNA 532 Play Production for Secondary Schools (3)

CNA 542 Communication and Rhetorical Theory (3)

CNA 548 Organizational Communication II (3)

CNA 554 Advanced Web Development (3)

CNA 617 Topics in Argumentation & Persuasion (3)

CNA 675 Intercultural Communication (3)

CNA Special Topics in Communication

(this might include Organization Presentations, Communication & Leadership, Instructional Communication, Creative Dramatics for the Classroom, Public Relations)

**Note:** Students may be required to take certain undergraduate courses if their undergraduate preparation is determined to be deficient by the Department Chair.

#### **Curriculum & Instruction (learning community delivery model) (21 hours)**

EDU 609 Educational Media & Technology (3)

EDU 651 Classroom Assessment (3)

EDU 652 Instructional Theory & Practice (3)

EDU 656 School Law:Operatnl Aspects & Cases (3)

SPD 608 Survey of Exceptionalities (3)

Electives (pre-approved) (6)

#### **Early Childhood Education (30 hours)**

1. Bachelor's degree and a completed Elementary Education and/or Special Education endorsement if seeking the ECE endorsement.
2. Students without either of these endorsements may be required to take additional courses if their preparation is determined to be deficient.
3. \*Any student who has completed SPD 430 and/or SPD 452 at Wayne State College or an equivalent from another institution should not enroll in the 500-level courses or their equivalent. The students will enroll in courses approved by the advisor to replace SPD 530 and/or SPD 552 or their equivalent.
  - EDU 605 Curriculum and Methods Appropriate for Ages Birth-8 (3)
  - EDU 617 Assessment of Needs for Young Children Birth-8 (3)
  - EDU 632 Clinical for Early Childhood (3)
  - EDU 658 Fundamentals of Curriculum Devlpmt K-12 (3)
  - FCS 520 Infants/Toddlers Through Primary Children Birth-8 (4)
  - FCS 530 Organization & Administration of Early Childhood Programs (3)
  - FCS 616 Early Childhood Practicum with Applied Research (5)
  - \*SPD 530 Behavioral Intervention for the Least Restrictive Environment (3)
  - \*SPD 552 Consultation and Collaboration Practices for Exceptional Learners (3)

#### **Elementary Education (15 hours)**

EDU 600 Literacy through Literature for Children (3)

EDU 604 Communication and Lang Arts for Children (3)

EDU 612 Social Sciences for Children (3)

EDU 613 Scientific Research for Children (3)

EDU 614 Mathematical Reasoning & Problem Solving for Children (3)

#### **English Education (27 hours)**

Candidates are required to take 6 hours of courses in British Literature and 6 hours of courses in American Literature, with additional elective and/or thesis hours depending on their approved program of study.

**Admission to English Program**

Upon application to the program, candidates for the MSE in English are required to submit to the English Department Graduate Committee a writing sample (an academic essay of five or more pages) as well as a letter of application specifying their preparation and goals. They must also be interviewed by the English Department Graduate Committee.

**Other Graduate Level English Options**

WSC offers cooperative Master's degree programs with the University of Nebraska at Kearney (UNK) and the University of South Dakota (USD). The Master of Arts in English is a general literature degree with an option to specialize in one of the core areas of literature. Classes are offered in areas of American and British Literature, Native American Literature, Creative Writing, Women's Studies, Linguistics and Literacy Criticism. Graduate seminar courses are also available in a variety of interest areas. Students can take up to 15 graduate hours at the WSC campus for direct transfer into the UNK or USD Masters of Arts in English degree program.

**English as a Second Language (15 hours)**

(Supplemental endorsement. This endorsement requires an applicant to have a valid regular teaching certificate.)

- CNA 675 Intercultural Communication (3)
- EDU 515 ESL Programs, Curric, Assessment (3)
- EDU 516 ESL Methods, Assessment (3)
- EDU 517 ESL Practicum K-12 (3)
- ENG 610 Studies in Linguistics (3)

**Family and Consumer Sciences Education (15 hours)**

- FCS 610 Instructional Techniques and Curriculum Development in FCS (3)
- FCS 615 Curr. Trends & Issues in FCS (3)
- FCS Electives (9) to be selected from:
  - FCS 505 Special Topics in FCS (3-9)
  - FCS 591 Special Project
  - FCS 597/697 Internship
  - FCS 695 Independent Study

**Industrial Technology Education (15 hours)**

- ITE 605 Organization of Technology Education Programs (3)
- ITE 650 Developments in Technology Education (3)
- ITE Electives (9)

**Mathematics Education (27 hours)**

- MAT 500 Real Analysis I (3)
  - Or MAT 555 Real Analysis II\* (3)
- MAT 515 Probability & Statistics II (3)
  - Or MAT 660 Math Modeling & Stats\*\* (3)
- MAT 530 Modern Algebra (3)
- MAT 600 Current Issues & Trends in Math/Math Education (3)
- MAT 610 Mod. Dev. In Geometry (3)
- MAT 645 Math Curriculum and Teaching (3)
- Electives (9 Hours)
  - MAT 520 Number Theory (3)
  - MAT 535 History of Mathematics (3)
  - MAT 555 Real Analysis II (3)
  - MAT 620 Topics in Discrete Math (3)
  - MAT 660 Math Modeling & Stats (3)

MAT 682 Topics in Mathematics (3)

At least twelve credit hours of mathematics must be from 600-level courses.

\*MAT 555 can be used as an elective if MAT 500 is used to satisfy a core requirement.

\*\*MAT 660 can be used as an elective if MAT 515 is used to satisfy a core requirement.

**Music Education (15 hours)**

6 hours from the following:

- MUS 515 Choral Literature and Materials (3)
- MUS 516 Instrumental Literature and Materials (3)
- MUS 524 Piano Pedagogy (3)
- MUS 544 Topics in Music Pedagogy & Literature (2)
- MUS 601 Advanced Choral Conducting (3)
- MUS 602 Advanced Instrumental Conducting (3)

3 hours selected from:

- MUS 503 Music/Baroque & Classical Periods (3)
- MUS 505 Music of the 20th Century (3)

4 hours selected from Applied Music:

- MUS 651 Organ (2)
- MUS 653 Piano (2)
- MUS 655 Voice (2)
- MUS 657 Brass (2)
- MUS 659 Woodwind (2)
- MUS 661 Strings (2)
- MUS 663 Percussion (2)

Plus MUS electives (2)

**Science Education (15-21 hours)**

Must take at least one course in each of the following areas:

- Biology – BIO
- Chemistry – CHE
- Earth Science – EAS
- Physics – PHY

Additional courses must be in the above areas including courses with NAT prefix

**Social Sciences Education (21-27 hours)**

The graduate emphasis in the Social Sciences offers a wide range of disciplines for students to engage. It should have particular appeal for those interested in furthering their skills and foundation in teaching careers in secondary and post secondary education, and for students without a teaching certificate but interested in graduate level discipline based coursework.

Social Sciences courses (21 hours) including at least 9 hours from one content area, and at least 6 hours from another content area, plus six hours of electives by advisement and approval of the Dean of the School of Education and Counseling. Additionally, students are required to complete a file paper (SSC 695 or other prefix) (3 hours) and an applied discipline based research experience (SSC 695 or other prefix) (3 hours).

***Exercise Science*****Health, Human Performance & Sport Department  
Rice Auditorium**

Students may pursue an MSE in Exercise Science, housed in the Department of Health, Human Performance, and Sport (HHPS). Graduate study in HHPS is designed to enhance the

HHPS teaching techniques and to enable the recipient of the MSE degree to: (1) achieve new and broadened academic competencies through course work, (2) achieve more effective teaching techniques through methodology courses, (3) develop competencies in research, (4) provide professional and academic training for those desiring to teach or administer in HHPS programs at the post secondary level, and (5) understand the impact of science and its relationship to success in HHPS.

Upon completion of fifteen hours, application for candidacy will be made through an oral review with the program faculty. Students will make a request for the oral review to the department chair just prior to the completion of fifteen hours. Seven weeks prior to graduation each student is required to file for a written exam prepared by the HHPS staff.

**Admission to Degree Program**

1. A BS/BA degree from an accredited institution.
2. Complete the Graduate Record Exam (GRE) within the first semester of enrollment and achieve a composite score (Verbal + Quantitative) of 750. The analytical writing score will be used to facilitate student assessment. Students without GRE scores can be provisionally admitted to the graduate program for one semester. Further information concerning the GRE exam can be obtained by contacting the Graduate Office.
3. Admission for non-probationary status is a 2.75 undergraduate GPA. Students who do not meet this requirement may be admitted on probationary status. Probationary students must be approved by the department graduate faculty following completion of nine credit hours.
4. Students may be required to take certain undergraduate

courses if their undergraduate preparation is determined to be deficient by the professor-in-charge.

**Typical Programs of Study**

**Non -Teaching Emphasis**

**Selected Professional Education Core Courses: 12 hours**

EDU	626 Advanced Educational Psychology.....	3
EDU/PED	622 Statistical Applictns & Data Analysis ..	3
	650 Research Design .....	3
PED	671 Recent Lit & Resrch in Educ & HHPS...	3

**Exercise Science: 24 hours**

This option requires that a student complete 24 hours of exercise science courses plus above core. The non-thesis option is suggested, unless the student plans to complete a doctorate.

(for non-WSC Exercise Science graduates:)

PED	*507 Motor Percep/Adapt for Spec Pop.....	3
	551 Advanced Exercise Physiology.....	3
	564 Facility Mgt in Sport/Wellness .....	3
	570 Fitness Evaluation and Assessment .....	3
	593 Fieldwork in Exercise Science .....	1-9
	615 Advanced Clinical Exercise Physiology..	3
	695 Independent Study (in Exercise Sci).....	3
	Electives (by advisement) .....	3
	*not required for thesis option candidates	

(for WSC Exercise Science graduates)

PED	*507 Motor Percep/Adapt for Spec Pop .....	3
	551 Advanced Exercise Physiology .....	3
	591 Special Project (in Exercise Science) ....	3
	593 Fieldwork in Exercise Science .....	0-9
	615 Advanced Clinical Exercise Physiology..	3
	695 Independent Study (in Exercise Sci) .....	3
	Electives (by advisement) .....	3
	*not required for thesis option candidates	

**School Administration/Educational Leadership  
Educational Foundations & Leadership Department  
Brandenburg Education Building**

These programs are designed to prepare the candidate for certification as a school principal, supervisor, department head, activities director, or similar administrative position. To become endorsed, the candidate must have two years of verified successful teaching experience, and have completed the required human relations and special education course requirements.

**Admission to the Degree Program:**

In addition to the admission and registration procedures, which apply to all graduate programs, each applicant must:

1. possess a valid teaching certificate appropriate to the level of preparation or must demonstrate the ability to earn such certificate upon completion of the MSE program;
2. have an overall minimum GPA of 2.75 in the undergraduate degree and/or a GPA of 3.0 in the first 9 hours of core courses in the administration program;
3. take the Graduate Record Examination aptitude test before completeing 9 credit hours and obtain a minimum, combined score of 1100 on the verbal, quanitative and writing sections (single digit number on the writing section is multiplied by 100);

4. take the Pre-Professional Skills Test and receive scores at least 170 in Reading, 171 in Mathematics, and 172 in Writing;
5. receive satisfactory letters of recommendation from two (2) school administrators;
6. receive a satisfactory evaluation from WSC faculty members based upon performance in completed program courses at WSC;
7. be approved by the school administration interview committee after having completed a minimum of nine (9) but no more than fifteen (15) hours of the program; and
8. have an overall minimum GPA of 3.2 in all program course work.

**Typical Program of Study in School Administration/  
Educational Leadership P-8 (MSE) 36 hours**

Note: This program requires 250 internship hours, 110 of which will be acquired in EDU 689.

**Professional Education Core Courses: 9 hours**

EDU	650 Research Design.....	3
	658 Fund of Curr Development 7-12 .....	3
	Student and advisor will select 3 hours from:.....	3
EDU	603 Introduction to Graduate Studies (1)	
	626 Advanced Educational Psychology (3)	
	627 Current Issues and Trends (2)	
	674 History/Philosophy of Education (3)	

**Major Area Courses: 27 hours**

EDU 610 Elem School Administration .....	3
654 Midl School Administration .....	3
655 Sch Law: Const Aspects/Cases .....	3
657 School Organization & Administration .....	3
659 Finance/Facilities .....	3
666 Supervision of Instruction .....	3
689 Internship in Administration P-8 .....	3
Electives .....	6

Student and advisor will select 6 hours of electives related to School Administration

**Typical Program of Study in School Administration/  
Educational Leadership 7-12 (MSE) 36 hours**

Note: This program requires 250 internship hours, 110 of which will be acquired in EDU 690.

**Professional Education Core Courses: 9 hours**

EDU 650 Research Design .....	3
658 Fund of Curr Development K-12 .....	3

Student and advisor will select 3 hours from:..... 3

EDU 603 Introduction to Graduate Studies (1)	
626 Advanced Educational Psychology (3)	
627 Current Issues and Trends (2)	
674 History/Philosophy of Education (3)	

**Major Area Courses: 27 hours**

EDU 611 Sec School Administration .....	3
654 Midl School Administration .....	3
655 Sch Law: Const Aspects/Cases .....	3
657 Sch Law: Oper Aspects/Cases .....	3
659 Finance/Facilities .....	3
666 Supervision of Instruction .....	3

690 Internship in Administration 7-12 .....	3
Electives .....	6

Student and advisor will select 6 hours of electives related to School Administration.

**Typical Program of Study in School Administration/  
Educational Leadership P-12 (MSE) 45 hours**

Note: This program requires 380 internship hours, 220 of which will be acquired in EDU 689 & 690.

**Professional Education Core Courses: 9 hours**

EDU 650 Research Design .....	3
658 Fund of Curr Development 7-12 .....	3

Student and advisor will select 3 hours from:..... 3

EDU 603 Introduction to Graduate Studies (1)	
626 Advanced Educational Psychology (3)	
627 Current Issues and Trends (2)	
674 History/Philosophy of Education (3)	

**Major Area Courses: 36 hours**

EDU 610 Elem School Administration .....	3
611 Sec School Administration .....	3
654 Midl School Administration .....	3
655 Sch Law: Const Aspects/Cases .....	3
657 Sch Law: Oper Aspects/Cases .....	3
659 Finance/Facilities .....	3
666 Supervision of Instruction .....	3
689 Internship in Administration P-8 .....	3
690 Internship in Administration 7-12 .....	3

Electives\* .....

Student and advisor will select 9 hours of electives to meet the 45 hour requirement.

\* If candidate is secondary prepared, 3 hrs of electives must be an elementary reading or language arts course.

**Special Education**

**Counseling & Special Education Department  
Brandenburg Education Building**

The MSE Mild/Moderate Disabilities degree program offers a choice of two options: (1) the Instructional Manager program which is appropriate for the graduate student who currently holds a certificate in Special Education but desires to complete a MSE in Special Education; and (2) the Special Educator option which is appropriate for the graduate student who currently holds a certificate other than Special Education but desires to earn an endorsement in K-12 Special Education and commence course work for the MSE in Special Education. (Twenty-four credit hours in the Special Educator option will apply toward the endorsement in Special Education. These credits or the MSE in Special Education alone do not provide full endorsement.)

The degree includes 36-40 credit hours dependent upon choice of option. Both options require that two-thirds (2/3) of the course work be completed at the 600 level. The MSE in Special Education is based on the guidelines of the Council for Exceptional Children.

Any student who has completed SPD 430 and/or SPD 452 at Wayne State College or an equivalent from another institution should not enroll in the 500-level courses. Those students will enroll in courses approved by the advisor to replace SPD

530 and/or SPD 552 or their equivalent.

**Program of Study: MSE in Special Education  
Instructional Manager Option: 36-37 hours**

**Selected Professional Education Core Courses**

EDU 603 Introduction to Graduate Studies (optional)...	1
626 Advanced Educational Psychology .....	3
650 Research Design .....	3
658 Fund of Curr Development K-12 .....	3

**Special Education**

SPD 530 Behav Intervent/LRE .....	3
552 Consult/Collab Prac/Except Lrners .....	3
609 Neuropsych of Exceptional Learners .....	3
610 Curr Modifications in LRE .....	3
611 Org. & Admin. of Sp. Ed. ....	3
631 Assess/Diag/Interpretation .....	3
667 Multi Aspects/Curr Plan/Ex. Lrners .....	3

**Research**

SPD 663 Applied Research .....	3
SPD 699 Thesis .....	3

**Special Educator Option 39-40 hours**

**Selected Professional Education Core Courses**

EDU 603 Introduction to Graduate Studies (optional)...	1
626 Advanced Educational Psychology .....	3
650 Research Design .....	3
658 Fund of Curr Development K-12* .....	3

**Special Education**

SPD 530 Behav Intervent LRE\* ..... 3  
 552 Consult/Collab Prac/Except Lrners\* ..... 3  
 572 Iden of Mild/Moderate Disabilities\* ..... 3  
 608 Survey of Exceptionalities\* ..... 3  
 611 Org. & Admin. of Sp. Ed\* ..... 3  
 667 Multi Aspects/Curr Plan/Ex. Lrners ..... 3

**Direct Experience**

SPD 661 Clinical Application\* ..... 6

**Research**

SPD 663 Applied Research ..... 3  
 SPD 699 Thesis ..... 3

\*Apply toward the endorsement in Special Education.  
 PED 507 and SPD 502 must be taken for the endorsement requirements.

**High Ability Education K-12: 18-21 hours**

This supplemental endorsement prepares in-service teachers to identify gifted/talented students, develop, coordinate and evaluate programs for gifted/talented students, and to serve as resource persons for students in grades K-12. This endorsement is not a field or subject endorsement.

SPD 552 Consult/Collab. Prac/Excep Lrners ..... 3  
 609 Neuropsych of Exceptional Learners ..... 3  
 611 Org. & Admin. of Sp. Ed ..... 3  
 625 Char & Meth: High Ability Students ..... 3  
 631 Assess/Diag/Interpretation ..... 3  
 662 Practicum-High Ability Ed ..... 3-6

**Education Specialist**

*School Administration/Educational Leadership*  
**School of Education & Counseling**  
**Brandenburg Education Building**

**Objectives:** This program prepares qualified students for leadership positions in education and meets the endorsement requirements for all general administrative and supervisory capacities in Nebraska schools.

**Program of Study**

In the term of the enrollment immediately following admission to a graduate degree program, the student should complete a Program of Study indicating the courses that have been agreed upon and approved by the advisor and department chair. Program of Study forms may be obtained from the student’s advisor, Graduate Office, or appropriate School office. After the forms are completed, they should be signed by the specified individuals. Students wishing to make changes in their Program of Study need approval of their advisor, department chair, and the appropriate Dean. Substantial changes may require a new Program of Study form.

The graduate student must complete at least 55% of the course work from full-time WSC faculty to meet the residency requirement.

**Grades**

No grade below a “C” (“C-” will not be accepted) in a graduate level course will be accepted toward completion of an Education Specialist degree program. A minimum cumulated GPA of 3.2 must be achieved in the Education Specialist degree program. A course receiving an S/NC grade cannot be used in the Education Specialist’s degree program.

**Admission to the Degree Program**

In addition to the admission and registration procedures, which apply to all graduate programs, each applicant must:

1. Possess a Master’s degree or endorsement in education-school administration from an accredited institution. Applicants with a master’s degree in other education fields will be required to complete deficiency hours.
2. Possess a valid teaching certificate or must demonstrate the ability to earn such certificate upon completion of the

Ed.S. Program;

3. Have an overall minimum GPA of 3.2 in an education master’s degree program and/or a GPA of 3.2 in the first nine (9) hours of core courses of the Ed.S. program;
4. Have taken the Graduate Record Examination aptitude test and obtain a minimum, combined score of 1100 on the verbal, quantitative and writing sections (single digit number on the writing section is multiplied by 100);
5. Take the Pre-Professional Skills Test and receive scores of at least 170 in Reading, 171 in Mathematics, and 172 in Writing, unless applicant possesses an Administrative and Supervisory Certificate;
6. Receive satisfactory letters of recommendation from two (2) school administrators;
7. Receive a satisfactory evaluation from WSC faculty members based upon performance in completed core Ed.S. courses;
8. Be approved by the school administration interview committee after having completed a minimum of nine (9) but no more than fifteen (15) hours of the program;
9. Have an overall minimum GPA of 3.2 in all program course work.

**Education Specialist Degree (33 hours)**

**Typical Program of Study**

**Required Courses 30 hours**

EDU 700 The Superintendency ..... 3  
 704 School Law for Administrators ..... 3  
 705 Prob Resolution in Ed Organizations ..... 3  
 710 Strategic Planning ..... 3  
 725 Education Facilities Planning ..... 3  
 730 Human Resources Administration ..... 3  
 740 Ed Finance & Bus Management ..... 3  
 750 School and Community Relations ..... 3  
 760 Information Management ..... 3  
 786 Advanced Internship in Ed Leadership ..... 3  
 Electives  
 790 Special Topics in Ed Admin ..... 3

## *Administration*

Mr. Larry Teahon, Chair (Term expires 1/1/13)	Chadron
Mr. Carter “Cap” Peterson, Vice Chair (Term expires 1/1/11)	Wayne
Mr. Gary Bieganski (Term expires 1/1/11)	Chadron
Mr. Bill Roskens (Term expires 1/1/15)	Omaha
Mrs. Michelle Suarez (Term expires 1/1/15)	Lincoln
Mr. Floyd Vrtiska (Term expires 1/1/13)	Table Rock
Dr. Roger Breed, Commissioner of Education (Ex-officio)	Lincoln
Mr. Stan Carpenter, Chancellor	Lincoln
The Honorable David Heineman, Governor of Nebraska	Lincoln

### **Executive**

Richard J. Collings	President
B.A., University of Louisville; Harvard University Institute for Educational Management; M.A., Ph.D., Tulane University. 2004	
Jeffrey B. Carstens	Vice President and Dean of Students
B.S., Wayne State College; M.Ed., Ball State University; Ph.D., University of Iowa. 1994	
Phyllis M. Conner	Vice President for Development, Executive Director/Wayne State Foundation
B.A., Briar Cliff University; M.B.A., University of South Dakota. 1995-1999 and 2003	
Robert O. McCue	Vice President for Academic Affairs
B.S., Northern Arizona University; M.S., Ph.D., Tulane University. 1978	
Clyde (Mac) Taylor	Vice President for Administration and Finance
B.S., Southern Illinois University-Edwardsville; M.Ed., University of Illinois at Urbana-Champaign; MBA, Boise State University; Certified Management Accountant. 2009	

### **Academic Affairs**

Vaughn Benson	Dean/Business and Technology	David Graber	Library Director
Randy Bertolas	Department Chair/History, Politics and Geography	Mark Hammer	Department Chair/Life Sciences
Jean Blomenkamp	Department Chair/Educational Foundations and Leadership	Judith Lindberg	Department Chair/Technology and Applied Science
Alan Bruflat	Department Chair/Language and Literature	James O’Donnell	Dean/Arts and Humanities
Paul Campbell	Department Chair/Sociology, Psychology and Criminal Justice	Charles Parker	Department Chair/Business and Economics
Linda Christensen	Department Chair/Music	Neil Schnoor	Dean/Education and Counseling
Steven Elliott	Department Chair/Art and Design	Sue Sydow	Assessment Director
Tammy Evetovich	Department Chair/Health, Human Performance and Sport	Deborah Whitt	Department Chair/Communication Arts
Timothy Garvin	Department Chair/Computer Technology and Information Systems	Keith Willis	Department Chair/Counseling and Special Education
		Todd Young	Department Chair/Physical Sciences and Math

### **Administrative Affairs**

Tricia Akerlund	Marketing Coordinator	Loren Kucera	Director of Nebraska Business Development Center
Chad Altwine	Director of Facility Services	Lynette Lentz	Registrar
Kevin Armstrong	Director of Planned Giving	Dennis Linster	Chief Information Officer
Mike Barry	Director of Sports and Recreation Facilities/Associate Athletic Director	Deb Lundahl	Director of Development and Alumni Relations
Beverly Buhrman	Accounting Manager	Barbara Meyer	Budget Manager
Jay Collier	Director of College Relations	Joseph Nitzke	Director, SSRC
John Dunning	Director of Network Operations	Kyle Rose	Director of Financial Aid
Edmund Elfers	Director of Teaching and Learning Technologies	Eric Schoh	Athletic Director
Mike Grosz	Sports Information Director	Lora Skow	Payroll Manager
John Kielty	HVAC/Energy Manager	Phyllis Spethman	Director of Professional Education Services
		Cheryl Waddington	Director of Human Resources

**Student Affairs**

Derek Anderson .....	Student Center Manager	Regina Korth .....	Nurse
Jason Barelman.....	Director of Career Services	Renee Krusemark .....	Interim Director of STRIDE
Lin Brummels.....	Director of Counseling	Gretchen O'Reilly .....	Student Health Nurse
Roger Hochstein .....	Security Manager	Donovan Roy.....	Director of Minority Affairs
		Dorothy Weber.....	Director of Learning Center

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B.F.A., University of South Dakota; M.F.A., Southern Illinois University-Edwardsville.		1979
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B.S., M.S.E., Wayne State College; C.P.A., Ph.D., University of Nebraska-Lincoln.		1974
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B.S., Plymouth State College; M.M., Boise State University.		2007
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1978-87; 1992
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**Retired and Emeritus Faculty**

Sayre D. Andersen, English.....	1970-2000
Morris L. Anderson, Education.....	1965-1994
Ralph E. Barclay, HPLS.....	1965-1998
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Donnell E. Cattle, Industrial Technology.....	1974-1997
Larry J. Claussen, Industrial Technology.....	1995-2006
James D. Curtiss, Education.....	1995-2009
James A. Day, Music.....	1959-2000
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Arnold D. Emry, Education.....	1967-1993
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Robert G. Foote, Geography.....	1970-2000
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Clifton L. Ginn, Political Science.....	1968-1987
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Kenneth D. Halsey, Business, Interim President.....	1971-1974, 1987-1999
Margaret A. Hansen, Family and Consumer Science.....	1976-2000
Jim D. Hummel, Administration.....	1964-1995
Vera M. Hummel, Business.....	1988-2000
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Robert G. Johnson, Communication Arts.....	1958-1986
Hilbert Johs, Mathematics.....	1969-2000
Richard T. Keenan, Communication Arts.....	1994-2009
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Sandra L. Metz, Family and Consumer Sciences.....	1986-2005
Jack L. Middendorf, Library Media.....	1978-1993
James P. Paige, Mathematics.....	1968-2004
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Vic V. Reynolds, Art.....	1988-2009
Erma T. Rodgers, Home Economics.....	1956-1969
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Carl F. Rump, Earth Science.....	1967-2008
Cornell J. Runestad, Music.....	1970-1995
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Robert C. Sutherland, Biology.....	1959-1963, 1966-1986
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