All qualified applicants for admission or employment will receive consideration without regard to age, race, marital status, gender, religion, national origin, or disability. No person attending Chadron State College shall on grounds of age, race, marital status, gender, religion, national origin, or disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity. The college is an affirmative action/equal opportunity employer.

This catalog is an official publication of Chadron State College and is intended to provide general information. Although the policies, procedures, and descriptions are current and accurate at the time of publication, the college and the Nebraska State Colleges Board of Trustees reserve the right to make changes at any time to facilitate the delivery of high-quality educational services. The information in this catalog, therefore, is subject to change and does not constitute a contract between the college and any other party. Any such changes are available from the Registrar’s Office. Students are responsible for adhering to regulations and completing requirements for their program of study.
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The address of Chadron State College is:
1000 Main Street
Chadron, Nebraska 69337
Telephone: (308) 432-6000
Internet: www.csc.edu
Admissions Office: inquire@csc.edu

Listed below are offices to which inquiries may be directed. Extension numbers are noted at the right.

Admissions (Undergraduate) ................................................................. Director, Crites Hall, 6263
Admissions (Graduate) ...................................................................... Dean, Miller Hall, 6214
Alumni ......................................................................................... Director, Kline Building, 6366
Catalogs/General Bulletins ............................................................. Admissions Office, Crites Hall, 6263
Class Registration ........................................................................ Registrar, Crites Hall, 6221
Curriculum/Instruction .................................................................. Senior Vice President for Academic & Student Affairs, Administration Building, 6203
Disability Services ....................................................................... Counselor, Crites Hall, 6461
Extended Campus Programs ......................................................... Assistant Vice President, Crites Hall, 6376
Fees/Tuition/Payment of Bills ....................................................... Business Office, Administration Building, 6241
Financial Aid ................................................................................. Director, Crites Hall, 6230
Gifts/Contributions ...................................................................... Chadron State Foundation, Kline Building, 6366
Graduate Information ................................................................. Dean, Miller Hall, 6214
Housing ...................................................................................... Director, Crites Hall, 6355
Internship and Career Services ................................................... Director, Crites Hall, 6292
Library ......................................................................................... Director, 6271
Public Information ....................................................................... Director, Kline Building, 6213
Student Academic Success Services .......................................... Director, Crites Hall, 6461
Student Information .................................................................... Dean of Students, Crites Hall, 6231
Student Senate ............................................................................ Office, Student Center, 6386
Transcript/Registrar .................................................................... Registrar, Crites Hall, 6221
Tutoring ........................................................................................ Coordinator, Kline Building, 6381
FALL TERM 2005

AUGUST
19 Friday ........................................................................................................................ Faculty Orientation
22 Monday ......................................................................................................................... Classes Begin

SEPTEMBER
5 Monday ....................................................................................................................... Labor Day — No Classes

OCTOBER
14 Friday ........................................................................................................................ Mid Term
14 Friday ........................................................................................................................... Mid Term Break Begins, 5:00 pm
19 Wednesday ................................................................................................................ Classes Convene

NOVEMBER
11 Friday ........................................................................................................................ Application Deadline for May Graduation
23 Wednesday ................................................................................................................ Thanksgiving Break Begins, 7:00 am
28 Monday ....................................................................................................................... Classes Convene

DECEMBER
12 Monday ....................................................................................................................... Academic Program Assessment Day
13 Tuesday ........................................................................................................................ Exam Week Begins
16 Friday ............................................................................................................................ First Semester Ends, 5:00 pm
16 Friday ............................................................................................................................ Commencement

SPRING TERM 2006

JANUARY
9 Monday ........................................................................................................................ Classes Begin

MARCH
1 Wednesday ................................................................................................................ Application Deadline for Teaching Professional Semester
3 Friday .............................................................................................................................. Mid Term
3 Friday ............................................................................................................................ Mid Term Break Begins, 5:00 pm
13 Monday ....................................................................................................................... Classes Convene

APRIL
7 Friday ............................................................................................................................. Scholastic Day
14 Friday ........................................................................................................................ Spring Break Begins, 5:00 pm
14 Friday ........................................................................................................................ Application Deadline for December Graduation
18 Tuesday ........................................................................................................................ Classes Convene

MAY
1 Monday ........................................................................................................................... Academic Program Assessment Day
2 Tuesday .......................................................................................................................... Exam Week Begins
5 Friday ............................................................................................................................ Second Semester Ends, 5:00 pm
6 Saturday ........................................................................................................................ Commencement
FALL TERM 2006

AUGUST
18  Friday ..................................................................................... Faculty Orientation
21  Monday .................................................................................. Classes Begin

SEPTEMBER
4   Monday .................................................................................. Labor Day — No Classes

OCTOBER
13  Friday .................................................................................... Mid Term
13  Friday .................................................................................... Mid Term Break Begins, 5:00 pm
18  Wednesday ........................................................................... Classes Convene

NOVEMBER
15  Wednesday ............................................................................... Application Deadline for May Graduation
22  Wednesday ................................................................................ Thanksgiving Break Begins, 7:00 am
27  Monday ................................................................................... Classes Convene

DECEMBER
11  Monday ................................................................................... Academic Program Assessment Day
12  Tuesday ................................................................................... Exam Week Begins
15  Friday ....................................................................................... First Semester Ends, 5:00 pm
15  Friday ....................................................................................... Commencement

SPRING TERM 2007

JANUARY
8   Monday ..................................................................................... Classes Begin

MARCH
2   Friday ..................................................................................... Application Deadline for Teaching Professional Semester
2   Friday ..................................................................................... Mid Term
2   Friday ..................................................................................... Mid Term Break Begins, 5:00 pm
12  Monday ................................................................................... Classes Convene

APRIL
6   Friday ..................................................................................... Scholastic Day
6   Friday ..................................................................................... Spring Break Begins, 5:00 pm
10  Tuesday ....................................................................................... Classes Convene
13  Friday ....................................................................................... Application Deadline for December Graduation
30  Monday .................................................................................... Academic Program Assessment Day

MAY
1   Tuesday .................................................................................... Exam Week Begins
4   Friday .................................................................................... Second Semester Ends, 5:00 pm
5   Saturday ................................................................................... Commencement
CHADRON STATE COLLEGE

Location: Chadron, Nebraska, a city of approximately 6,000 residents, is located in the northwest corner of Nebraska. Federal Highways 385 and 20 intersect at Chadron

Type: A state-supported college granting baccalaureate and graduate degrees

Enrollment: Approximately 2,800 students

Calendar: Academic year of two semesters; summer session

Accreditation: 
- Higher Learning Commission; Member - North Central Association
  30 North LaSalle Street, Suite 2400
  Chicago, IL 60602-2504
  Telephone: (800) 621-7440 Fax: (312) 263-7462
  Internet: info@ncacihe.org
- National Council for the Accreditation of Teacher Education
- Nebraska State Department of Education
- Council on Social Work Education
- Association of Collegiate Business Schools and Programs

Degrees Granted: Bachelor of Applied Sciences, Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education, Master of Arts in Education, Master of Business Administration, Master of Education, and Specialist in Education, as well as pre-professional education

Library: 250,000 volumes, 750 current periodicals and newspapers; supplemented by loans from other libraries throughout the United States

Career Services: A wide range of resources are available to assist students in career planning and job attainment

Athletics: Competition in NCAA varsity sports, Rocky Mountain Conference, and intercollegiate rodeo; intramural sports program

Financial Assistance: Available to admitted degree-seeking students based upon financial need

Housing: College owned and operated residence halls
THE COLLEGE

Chadron State College embraces its role as a regional institution, offering courses on its residential campus in Chadron, through interactive video conferencing and on-site instruction at select sites within and contiguous to western Nebraska, and via online modality throughout the nation. Offices at Alliance, McCook, North Platte, Sidney, and Scottsbluff are staffed by college employees to facilitate awareness of and response to regional needs, student enrollment and advising, and public outreach efforts.

The Chadron State College residential campus is on the edge of the scenic Pine Ridge of northwest Nebraska. Occupying two hundred eighty-one acres, the residential campus is bound across the south by the tall, pine-clad buttes of the Pine Ridge. Seven academic buildings plus six residential facilities and family housing form this campus. The Nelson Physical Activity Center contains specialized rooms for indoor track, basketball, cardiovascular exercise, weight training, racquetball, and dance and gymnastics. The Student Center houses the Eagle Pride Bookstore, a snack bar, pool tables, meeting rooms, student cafeteria, and a video conferencing room. The Reta E. King Library contains a quarter of a million print and microform volumes and 750 periodical subscriptions, complemented by other print and electronic resources. The library is accessible by students via onsite and Internet communications. The computerized Nebraska State College Library catalog, reached via the King Library web page, identifies of books in the Chadron, Wayne, and Peru State College libraries and acts as a gateway to the libraries at the three Nebraska state universities. On-line, Web-based periodical indexes and articles are reinforced by WorldCat, an electronic catalog of the world’s library collections.

The prairie and hills around Chadron are rich in pioneer history. The town of Chadron was founded in 1885. Fort Robinson, twenty-eight miles away, was once a colorful frontier military post. The Sandhills of Nebraska, the Hudson-Meng Bison Site, the Agate Fossil Beds, the Black Hills of South Dakota, and the Mammoth Site are nearby.

Chadron State College lies within the southern boundary of the city. Chadron has a population of approximately 6,000 with an accredited public school system, a Carnegie Library, a community building, a modern municipal hospital, a medical clinic, a municipal airport, a swimming pool, and a system of beautiful public parks.

In 1994, Chadron State College’s assessment document was one of the first to be approved by the North Central Association and was subsequently used as a model for other institutions. Chadron State College received the Employer of the Year Award from the Nebraska Federation of Business and Professional Women in 1995. In 1997, Chadron State College was selected as Nebraska’s representative to help create the Western Governors University, which is designed to share resources in providing distance learning opportunities for place-bound learners in the western United States. Chadron State received the “Connecting Nebraska Award” from the Nebraska Development Network after hosting a Non-Profit Organization Leadership Development Institute in 2000. Chadron State College was awarded the Hidden Treasure Award for excellence in core instructional programming and focus on students by the Newsweek/Kaplan College Catalog in 2000. Chadron State College continues to be recognized statewide and regionally for its focus on collaboration and partnerships to serve this region.

PROGRAM AUTHORIZATION AND INSTITUTIONAL ACCREDITATION

Chadron State College is authorized by the Nebraska Legislature to offer undergraduate programs, master’s level programs, and the educational specialist program. Continuation and development of applied research and public services activities are additional legislatively-mandated priorities.

Chadron State College is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools as an institution conferring Baccalaureate degrees, the Master of Education degree, the Master of Arts in Education degree, the Master of Business in Administration degree, and the Specialist in Education degree. Chadron State College is also accredited by the National Council for the Accreditation of Teacher Education, the Council on Social Work Education, and Association of Collegiate Business Schools and Programs. In 2003, the institution received full accreditation support from the Higher Learning Commission for offering all academic programs throughout our service region, and to offer select fully online programs.
GOVERNANCE AND ORGANIZATIONAL STRUCTURE

Chadron State College is governed by the Board of Trustees of the Nebraska State Colleges. The Nebraska State College System is comprised of the three regional, comprehensive institutions of Chadron State College, Peru State College, and Wayne State College.

Reporting directly to the President of Chadron State College, the Senior Vice President for Academic and Student Affairs oversees all academic and instructional programs and services of Chadron State College. Administrative leaders of the following divisions report to the Senior Vice President: The School of Arts and Sciences, The School of Professional and Graduate Studies, Student Services, Extended Campus Programs, Enrollment Management, The Reta E. King Library, and The Mari Sandoz High Plains Heritage Center. Ten academic departments are located within the two Academic Schools, as follows:

**School of Arts and Sciences**
- Department of Language, Literature, and Communication Arts
- Department of Mathematical Sciences
- Department of Physical and Life Sciences
- Department of Social Science and Justice Studies
- Department of Visual and Performing Arts

**School of Professional and Graduate Studies**
- Department of Applied Sciences
- Department of Business and Economics
- Department of Counseling, Psychology, and Social Work
- Department of Education
- Department of Health, Physical Education, and Recreation

The Vice President of Administration oversees facilities, grounds, human resources office, budget, conferencing, and contract services. The Athletic Director, the Cultural Programming and Public Relations Director, and the Director of Institutional Research complete the President’s Executive Council.

A complete organizational chart is available from the Human Resources Office.

HISTORY

Chadron State College’s mission has evolved from its heritage as a state normal school created primarily to prepare teachers to its present role as the only four-year college serving the western half of Nebraska, a rapidly changing and developing nonmetropolitan region.

The State Board of Education selected Chadron as the site of a normal school in western Nebraska in 1910 and acquired eighty acres of land south of Chadron, including the grounds of Chadron Congregational Academy which had closed in the spring of 1910. Nebraska State Normal School at Chadron was founded in 1911.

In 1921, the State Legislature changed the institution’s name to Chadron State Teacher’s College. As the name suggested, the primary purpose of the institution was teacher preparation; however, the statement in the catalog suggested a slightly expanded role “to promote the educational interests of western Nebraska.” The institution was granted the authority to confer the baccalaureate degree in education at this time.

In 1949, an act by the State Legislature allowed the college to grant the degree of Bachelor of Arts in arts and sciences. Students could now enroll at Chadron and pursue curricula other than teacher training. However, the college continued to define itself as primarily a teacher’s college and the majority of the school’s graduates were prepared for a teaching career.

In 1964, the Nebraska Legislature changed the name of the institution to Chadron State College. Since that time, the mission of the college has changed from primarily teacher education to a comprehensive institution offering liberal arts-based and pre-professional programs in a variety of disciplines.

Chadron has offered a Master’s degree in Education since 1956. In 1972, the Board of Trustees authorized CSC to offer the Specialist in Education degree. In 1984, the Master’s in Business Administration was approved by the Board of Trustees. The Bachelor of Applied Sciences was approved in 2001.

Western Nebraska is recognized as having a personality that is distinct from the eastern half of the state. As a result of location this region plays a significant role in efforts of this nation and the world to solve the needs for food and energy while preserving the natural environment and improving the living and working conditions of people in both industrialized and developing nations.
Chadron State College has the mission to anticipate and be responsible to the needs for higher education in this changing locality. Chadron State College also serves a significant number of students from the surrounding states of Colorado, Wyoming, and South Dakota, responding to and continuing to evolve to address the changing needs of western Nebraska and the surrounding region.

MISSION

Chadron State College aspires to be a premiere institution of higher education in the western high plains states, innovatively pursuing excellence in teaching, scholarship, and service. As such, Chadron State College is committed to enriching the quality of life in the region by providing educational opportunities, research, service, and programs that contribute significantly to the vitality and diversity of the region.

Chadron State College seeks to accomplish its mission through the following areas of focus:

- To assume a leadership role in regional educational, economic, social and cultural development, working in collaboration with regional entities to recognize, assess, and provide timely responses and appropriate educational opportunities to the western high plains region.
- To integrate strong undergraduate discipline preparation with interdisciplinary traditional liberal arts education, promoting global awareness, multicultural perspectives and competence, and regional relevance.
- To provide innovative and supportive learning opportunities for students at all levels of competency, merging proven and creative teaching and learning principles with evolving technology through a range of flexible and creative alternative learning opportunities.
- To integrate acquisition, discovery, and application of knowledge and experiential learning to develop students’ higher-level learning and applied skills and competence in accessing and assessing information in all available formats.
- To institutionalize commitment to change and innovation, reviewing and modifying curricular, co-curricular, and institutional programs and procedures to improve attainment of desired student learning and institutional goals.
- To facilitate a collegial institutional environment that encourages and assists students, faculty, and staff in realizing their potentials and reaching their aspirations, through promoting free expression and exchange of ideas, nurturing an environment of mutual respect and support, and fostering personal and professional integrity and development.
- To encourage, support, and celebrate accomplishments of students, faculty, and staff, promoting interdisciplinary collaborations, research, scholarship, and artistry that are consistent with the teaching mission of the institution.
- To recruit and maintain students, faculty, and staff representative of the high plains population, providing an environment supportive of diversity.
- To provide students with individualized personal academic advising, career advising, and guidance.
- To offer academic and regional programs in personable, progressive learning environments, with institutional facilities, infrastructure, business management procedures and financial operations focused on effectiveness and efficiency in meeting institutional goals and priorities.

PRIVACY RIGHTS, NONDISCRIMINATION, AND DISCLOSURE POLICIES

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

Chadron State College provides students the right to inspect and review official records as provided in the Family Education Rights and Privacy Act (FERPA) of 1974 (Public Law 93-380) as amended by Public Law 93-568. A copy of this law is on file in the Dean of Students Office.

The Family Education Rights and Privacy Act allows the College to release designated information without prior consent of a student unless he/she has notified the College’s Dean of Students not to release this information without consent. Any student wishing to have directory information withheld from reporting must notify the Dean of Students using a written notarized form available from that office.
Directory information at CSC includes: (a) name, address, telephone listing, and electronic mail address, (b) date and place of birth, (c) year in college and major field of study, (d) participation in officially recognized college activities and sports, (e) weight and height of members of athletic teams, (f) degrees and awards received, (g) most recent previous educational agency or institution attended, (h) photographs, and (i) enrollment status. Additional information regarding FERPA may be found in the CSC Student Handbook.

NONDISCRIMINATION POLICY/EQUAL EDUCATIONAL AND EMPLOYMENT OPPORTUNITY POLICY

Chadron State College is committed to an affirmative action program to encourage admission and employment, and to provide procedures which will assure equal treatment of all students and employees.

The college is committed to creating an environment for all students and employees that is consistent with nondiscriminatory policy including Title VII of the Civil Rights Act of 1964, as amended, Title IX of the Educational Amendments of 1972, as amended, and Sections 503 and 504 of the Rehabilitation Act of 1973.

To that end, it is the policy of Chadron State College to administer its academic and employment programs and related supporting services in a manner which does not discriminate on the basis of gender, race, color, national origin, age, religion, disability, or marital status.

The College’s written policy regarding the Americans with Disabilities (ADA) Act may be reviewed in the office of the Director of Human Resources or in the Reta E. King Library. Information concerning the provisions of the Americans with Disabilities Act, and the rights provided thereunder, are available in these locations.

Chadron State College does not discriminate on the basis of disability in the admission or access to, or treatment or employment in, its programs or activities. The following people have been designated to coordinate compliance with the nondiscrimination requirements contained in Section 35.107 of the Department of Justice regulations:

- PROGRAM ACCESS - Senior Vice President for Academic and Student Affairs; Administration Building, Room 151; 432-6203
- PHYSICAL ACCESS - Vice President for Administration; Administration Building, Room 149; 432-6202
- EMPLOYEE ACCESS - Director of Human Resources; Administration Building, Room 140; 432-6224

STUDENT RIGHT TO KNOW

Student Right To Know information is available at www.csc.edu/righttoknow/. This site contains consumer information, graduation rates, campus crime statistics and other consumer related information. Information on the Student Right to Know is also available upon request from the Chadron State College Financial Aid Office, 1000 Main Street, Chadron, NE 69337. Information pertaining to campus crime statistics and Family Educational Rights and Privacy Act (FERPA) is available upon request from the Dean of Students.

ASSESSMENT

Chadron State College is committed to improving teaching, learning, and student support services as part of a continual effort to monitor and improve institutional effectiveness. This effort includes assessing student academic achievement and satisfaction. The College requires all students to participate in the assessment program for the duration of their enrollment.
STUDENT SERVICES

STUDENT ACADEMIC SUCCESS SERVICES

Many services are available at Chadron State College that promote the successful academic and social integration of all students. Tutoring services are available in the Kline Building. All other student services are located in Crites Hall.

Academic Counseling

Academic Counseling assists students in realizing the maximum educational benefits available to them at Chadron State College. This service helps students to better understand themselves and learn about the resources available to meet their specific educational needs and aspirations. Any student may benefit from this service, which is provided by trained professionals and coordinated with faculty advising.

Campus Activities

The College, the community, and the surrounding area provide recreation, organized activities, competitive sports, religious fellowship, theatre and musical participation, and a chance to form friendships. Students are urged to become acquainted with these opportunities and to participate in extracurricular activities that complement and support their academic success.

Campus clubs and organizations include departmental and interest clubs, honorary organizations, intercollegiate and intramural sports, music organizations, publication groups, and religious organizations. See the CSC Student Handbook for more detailed information on these activities and other aspects of college life.

Career Counseling

Career Counseling is available to assist students in exploring career options and developing effective job search skills. Career Counseling provides assistance to students in making career-related decisions through the assessment of skills, interests, beliefs, values, and personality characteristics. The Career Resource Library contains information and resources on numerous businesses, careers, job vacancies, college catalogs, and job search strategies.

Career Services

The Internship and Career Services office assists students in the job application process by providing access to job vacancy bulletins and computerized job searching. Career services are available to help prepare students for employment following graduation or for those seeking part time or temporary employment during the school year. Students can establish a professional credential file which consists of recommendations and transcripts. This file is sent upon request when the student is applying for a position. Services available include resume preparation, interview practice, and business etiquette, coordination of on-campus interviews with company representatives and the ability to register with the resume referral file, or for education students, to be on the active registrant list, both of which can be made available to employers upon their request. Students and alumni are provided assistance in seeking employment and can access current job listings on the bulletin board or via the CSC Web site at www.csc.edu/placement/.

Disability Services

Services for students with disabilities include counseling, tutoring and assisting students to discuss their academic needs with professors, as well as providing additional resources, referral services and/or special accommodations as appropriate. The goal of Disability Services is to provide a learning environment with as equal access as possible.

Students who are in need of special accommodations must begin their request through the Student Academic Success Services office. A student-initiated conference with the Disability Services Contact Person is required. In addition, documentation of the disability(ies) by a qualified professional must be on file in the Disability Service Contact Person’s office in order to evaluate requests.
Health Services

Physical Health
College Health Services are available to all students at Chadron State College. Located in Crites Hall, Health Services is staffed by a Registered Nurse who treats minor illnesses and injuries, dispenses non-prescription medication, and offers wellness and lifestyle counseling. If prescription drugs or further treatment are needed, the nurse will make appointments for students at a local medical clinic.

The student has full responsibility to notify his or her instructor prior to absence from class due to illness. For absence due to extended illness or hospitalization exceeding three class days, the College Nurse will notify instructors if requested to do so by the student. Such notification does not necessarily mean the absence is excused by the instructor. The student must contact his/her instructors upon return to school, and retains the responsibility to fulfill all course requirements.

Personal Counseling
A certified counselor offers confidential, personal counseling to all students. This short-term counseling is available for students who are making difficult choices, going through periods of transition, seeking to change behaviors and/or improving their decision-making skills.

Housing
The Housing Office assigns and supervises all on-campus housing, which includes six residence halls and numerous CSC apartments. A variety of housing options are available so that accommodations may be selected on the basis of need, interest, and cost.

All first-year students are required to live on campus and participate in the meal program except for those who are: (1) married, (2) a single parent, (3) living with parents, or (4) over 21 years of age. These students must fill out an Off-Campus Application Form, available at the Housing or Admissions Offices. The application must be returned to the Housing Office for approval prior to the start of the semester.

Every student residing in a residence hall must enter into a contract on forms provided by CSC. Room, board, and apartment rates are approved annually by the Nebraska State Colleges Board of Trustees.

All residents of college-owned housing must uphold the laws of the State of Nebraska and the regulations set forth by the Nebraska State Colleges Board of Trustees and Chadron State College as they pertain to college-owned housing. Specific policies pertaining to Chadron State College residence halls and CSC apartments are included in the CSC Student Handbook. The Student Handbook, along with additional information and applications, may be obtained by contacting the Housing Office.

Residence Halls
Chadron State College residence halls offer double and single occupancy rooms. The Room Reservation form, accompanied by a Reservation/Damage deposit, must be submitted to the Housing Office. Students are assigned rooms based on application dates, and rooms are assigned by the Housing Office staff. Students preferences for roommate, residence hall, and room type are considered in the assignment process.

All students who live in the residence halls are required to participate in the food service program. Meals are served Monday through Sunday. Room and board rates for each semester are to be paid in full at the time of registration. Chadron State College does provide several payment options which may be arranged through the Business Office.

CSC Apartments
The CSC Apartment Housing consists of one-, two-, and three-bedroom units. These apartments primarily house married students and students with children. A limited number of one-bedroom apartments is available for upper-division and graduate students. Apartments are assigned on a first-come, first-serve basis with families receiving first priority. Students living in CSC Apartment Housing are eligible to purchase a meal plan. Additional information and applications are available in the Housing Office.

Multicultural Services
Multicultural Services assists all Chadron State College students to live effectively in today’s global community. Program activities provide opportunities for diverse groups to build understanding and respect through communication and shared experiences.
Residence Life Programs
The Residence Life Program staff offers the resident student a variety of educational, social, and recreational programs that encourage responsible decision-making and healthy lifestyles. Programs designed to enhance academic success, personal wellness, recreational opportunities, social functions, and community involvement are emphasized.

Student Support Services (SSS)
The Student Support Services (SSS)-ELITE program is an academic enrichment program designed to assist students during their college career. The objectives of the SSS-ELITE program are to promote and increase participants’ academic success, assist with progress towards college graduation, and provide information regarding the pursuit of advanced degrees. SSS-ELITE also provides cultural and social enrichment opportunities, leadership training, and opportunities for career exploration. Contact the Dean of Students for more information.

Tiyospaye Center
The Chadron State College Tiyospaye Center provides American Indian students with support services designed to help them succeed academically.

Tutoring
Chadron State College’s nationally certified Peer Tutor program provides walk-in, individual, and small group tutoring sessions. Peer tutoring services are available for daytime tutoring, nighttime study, and help sessions. Tutoring services are free to all students, and are available in the second floor of the Kline Building.

CHADRON STATE COLLEGE
BACCALAUREATE PROGRAMS

Chadron State College’s undergraduate program fosters intellectual development through a liberal arts-based general studies curriculum, facilitates in-depth knowledge and understanding in a subject area to support career opportunities, and promotes personal development of leadership and citizenship skills through curricular and co-curricular learning opportunities.

The Coordinating Commission for Postsecondary Education in Nebraska states, “The primary focus of Chadron State College’s educational programs is high quality, comprehensive undergraduate programs leading to baccalaureate degrees in arts and sciences, business, and teacher education, all of which are enhanced by a coherent general education program.”

Four baccalaureate degrees are offered: the Bachelor of Applied Sciences, the Bachelor of Arts, the Bachelor of Science, and the Bachelor of Science in Education. Twenty-five majors are offered to students seeking non-teaching degrees. Over thirty programs of study within the Bachelor of Science in Education degree lead toward teacher certification.

UNDERGRADUATE ADMISSIONS

General Admissions Information
Chadron State College is committed to the policy that all persons have equal opportunity and access to programs without discrimination on the basis of race, color, national origin, marital status, gender, age, religion, or disability.

All students seeking admission for enrollment in degree-granting programs must complete the Application for Admission and submit all related documents before admission can be granted. All materials become the property of Chadron State College and are not returned. Admission may be invalidated if granted on the basis of false information willfully submitted, or if the disclosure of facts required in the application process are intentionally concealed or omitted.

The Admissions Office receives and processes all undergraduate applications and transcripts, and issues acceptance notification. Correspondence concerning admissions and requests for application should be directed to the Chadron State College Admissions Office.
Admission/Matriculation

Every student applying for admission to Chadron State College for the first time shall pay an admission/matriculation fee. The fee is used to establish a student’s record and is non-refundable except in cases where the student is denied admission to CSC. The admission/matriculation fee will not be applied to tuition and fees upon enrollment.

College Preparatory Program

In order to improve student’s preparation for college-level work, Chadron State College recommends the following College Preparatory Program for students who wish to enter Chadron State College:

1. Four units of English; in each year the content of the courses should have an emphasis upon the development of written and oral communication skills and literature;
2. Three units of mathematics, including such courses as algebra, geometry, advanced algebra, trigonometry, or calculus; students are encouraged to take a math course during their senior year;
3. Three units of social studies, including one unit of American history and one unit of global studies;
4. Two units of laboratory science, such as biology, chemistry, or physics; and
5. Other academic courses selected from areas such as foreign language, visual or performing arts, and computer literacy.

Students who enter Chadron State College without sufficient academic background may need to enroll in foundational courses to enhance their opportunities for success.

General Bulletin/Catalog

All first-time entering students will be assigned to the current catalog. Transfer students or students returning to Chadron State College following a break in their enrollment will be assigned the catalog in effect for their peer classification at Chadron State College. Students may choose to follow a catalog published subsequent to their (re)enrollment.

Freshman Admission

The following admission policy of Chadron State College applies to all first-time entering freshmen. These requirements do not pertain to transfer students, international applicants, re-admission of previous students, or non-degree seeking students.

The following requirements must be met in full for admission to Chadron State College undergraduate programs.

1. Application for Admission form: Complete and return with the non-refundable admission/matriculation fee to the Chadron State College Admissions Office. The Application for Admission should be submitted between the beginning of the last year by currently enrolled high school students and no later than four weeks prior to the beginning of the term for which they seek admission.

2. Entrance Exam: Chadron State College requires all new students to complete the ACT or SAT exam and have official scores reports sent directly to the CSC Admissions Office (ACT College Code 2466, SAT Code 6466). The ACT/SAT is not required of prospective students who graduated from a state accredited high school five or more years prior to enrollment.

3. Transcripts: Applicants must submit official final high school transcripts reflecting date of graduation, high school rank and cumulative GPA.

4. Health Form Requirement: All students entering any Nebraska State College institution must show a physician-validated immunization record for two doses of measles, rubella, diphtheria, and tetanus. This evidence must be presented before a student is permitted to register. (Individuals born before January 1, 1957 are considered immune to measles [rubeola] and are not required to show proof of two doses of MMR.)

A person may qualify for exemption to the required immunizations when one of the following conditions is met:

- The individual has a medical condition that contraindicates immunization. A physician licensed to practice medicine within the United States must submit a *bona fide* statement, with signature, indicating that immunization is unsafe for the individual. The nature and probable duration of the physical condition should be clearly specified. The exemption from immunization will not extend beyond the duration of the physical condition that contraindicates immunization.
- Immunization is contrary to the religious tenets and practices of the student. A CSC form must be signed and notarized prior to admission.
- The student is enrolled only in extended campus courses. The student will be required to provide immunization verification if they enroll for a course at the Chadron residential campus.
The student qualifying for an exemption must sign a waiver form provided by the College stating that the person may be subject to exclusion from the campus and college related activities if an outbreak of measles (rubeola) occurs on either the residential or the extended campus.

Transfer Students Admission

Transfer students must complete the following requirements for admission to Chadron State College.

1. Application for Admission form: Complete and return with the non-refundable admission/matriculation fee to the admissions offices. This should be submitted no later than one month prior to the beginning of the term in which admission is requested.

2. Transcripts:
   - One official transcript from each college attended must be submitted, even if no credit was earned at the institution. Work summarized from several colleges on one transcript is not acceptable. Students may not omit or disregard any part of their previous college records, whether part- or full-time, with or without degree objectives, whether or not credit has been granted, or whether or not they desire to transfer credit. Failure to disclose a complete collegiate record may result in denial of admission or in dismissal from Chadron State College.
   - One official high school transcript is required if the applicant has attempted less than 12 college credits, or at the discretion of the Admissions Office.

3. Grade Point Average: Transfer applicants must have a minimum cumulative grade point average of “C” (2.0) earned at institutions accredited by a regional higher education accrediting agency to be eligible for admission without qualification. If accepted, students with grade point averages below this level or who earned their credit from non-accredited schools are admitted on a probationary status. Retention in Chadron State College is dependent upon satisfactory academic progress.

4. Eligibility: Prospective transfer students must be eligible to return to the institution last attended. Those who have been suspended or dismissed from another college or university for academic or personal reasons may not be considered for admission until eligible to return to their former institution, or until one full academic semester has elapsed.

5. Health Form Requirement: All students entering any Nebraska State College institution must show a physician-validated immunization record for two doses of measles, rubella, diphtheria, and tetanus. This evidence must be presented before a student is permitted to register. (Individuals born before January 1, 1957 are considered immune to measles [rubeola] and are not required to show proof of two doses of MMR.)

A person may qualify for exemption to the required immunizations when one of the following conditions is met:
   - The individual has a medical condition that contraindicates immunization. A physician licensed to practice medicine within the United States must submit a bona fide statement, with signature, indicating that immunization is unsafe for the individual. The nature and probable duration of the physical condition should be clearly specified. The exemption from immunization will not extend beyond the duration of the physical condition that contraindicates immunization.
   - Immunization is contrary to the religious tenets and practices of the student. A CSC form must be signed and notarized prior to admission.
   - The student is enrolled only in extended campus courses. The student will be required to provide immunization verification if they enroll for a course on the Chadron residential campus.

The student qualifying for an exemption must sign a waiver form provided by the College stating that the person may be subject to exclusion from the campus and college related activities if an outbreak of measles (rubeola) occurs on either the residential or the extended campus.

Transfer Credit From Accredited Colleges Or Universities

A student must complete at Chadron State College a minimum of 50 percent of the hours required for the program of study unless otherwise accepted by institutional agreement prior to enrollment. Completion of specific lower division courses may also be required in individual degree programs.

Courses taken toward completion of a program of study will be transferred to an equivalent program at Chadron State College. Courses that have been recorded as credit/no credit will not be used to meet subject major, comprehensive major, minor, or endorsement area requirements.
Chadron State College will accept from any regionally-accredited community college a maximum total of 66 hours to be applied toward the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Education. A maximum total of 70 hours from regionally-accredited community colleges will be accepted into the Bachelor of Applied Science degree. Transfer students will be required to meet competency requirements for juniors and to fulfill the upper division general studies requirements of Chadron State College.

Students who have completed an Associate of Arts degree from a regionally accredited institution will have met all General Studies requirements with the exception of the three (3) hours of upper division general studies requirements in Reason and Values and three (3) hours of upper division general studies requirement in Global and Social Awareness. Completion of specific lower division courses may also be required in individual degree programs.

Specific prior institutional agreements for transfer of an Associate of Science degree from several regionally accredited institutions have been developed. Students should check with the CSC Registrar’s Office to determine if a prior agreement for transfer of an Associate of Science degree from their institution is available.

Transfer Credit From Non-accredited Colleges Or Universities
Credits earned from a non-accredited institution may be accepted on a provisional basis — that is, to be accepted upon the satisfactory completion of 30 hours at Chadron State College. Other stipulations as outlined in the section above regarding transfer of credit from accredited colleges apply. The College reserves the right not to transfer credit from non-accredited institutions.

Transfer Credit From Vocational and Technical Institutions
Credits earned at a vocational technical college are transferable if they are substantially equivalent to Chadron State College courses. Equivalency of a course, including the number of semester hours to be awarded, is determined by the appropriate department at Chadron State College. Other stipulations as outlined in the section above regarding transfer of credit from accredited colleges apply.

Chadron State College may accept competencies developed at a technical community college for a student who desires to complete an endorsement in teacher education. A student who has been granted an Associate of Applied Arts degree by a technical community college and is recommended by that institution for a vocational teacher education program may receive up to 40 semester hours for the technical competencies acquired. These students may also pursue the Bachelor of Applied Science degree for non-education programs. A student completing less than the Associate of Applied Arts degree at a technical community college may be granted credit equivalent to the competency level of the student.

The Registrar and the School Dean from the area in which the student is seeking credit will establish the amount of transfer credit and its applicability to the desired degree program at Chadron State College. The accepted credit for technical competencies will be granted after all other degree requirements have been met.

Former Student Readmission
Students enrolled at Chadron State College prior to the fall semester of 1988 are required to apply for readmission through the Admissions Office. Application should be made no later than four weeks prior to the beginning of the term to which readmission is requested. Students who have attended CSC at any time since the fall semester of 1988 and who wish to enroll in classes may register for classes according to the published class schedule.

Former students should give special attention to the following:
1. A former student who is attending or who has attended another college or university is considered a transfer student and must satisfy transfer requirements as detailed above in Admission of Transfer Students.
2. Students who voluntarily withdrew from previous college study are eligible for readmission with the same academic status that existed at the time of withdrawal.
3. Students suspended or dismissed for any reason may petition the Student Academic Review Committee for reinstatement. Evaluation for readmission usually includes consideration of academic aptitude, evidence of growth and maturity, course work at other institutions, and time elapsed since leaving the institution. The appeal form is available through the Senior Vice President for Academic and Student Affairs’ office.
4. Health Form Requirement: All students re-entering any Nebraska State College institution must show a physician-validated immunization record for two doses of measles, rubella, diphtheria, and tetanus. This evidence must be presented before a student is permitted to register. (Individuals born before January 1, 1957 are considered immune to measles [rubeola] and are not required to show proof of two doses of MMR.)
A person may qualify for exemption to the required immunizations when one of the following conditions is met:

- The individual has a medical condition that contraindicates immunization. A physician licensed to practice medicine within the United States must submit a bonafide statement, with signature, indicating that immunization is unsafe for the individual. The nature and probable duration of the physical condition should be clearly specified. The exemption from immunization will not extend beyond the duration of the physical condition that contraindicates immunization.
- Immunization is contrary to the religious tenets and practices of the student. A CSC form must be signed and notarized prior to admission.
- The student is enrolled only in extended courses. The student will be required to provide immunization verification if they enroll for a course on the Chadron residential campus.

The student qualifying for an exemption must sign a waiver form provided by the College stating that the person may be subject to exclusion from the campus and college related activities if an outbreak of measles (rubeola) occurs on either the residential or the extended campus.

**International Student Admission**

Qualified students from other countries and cultures who can bring to Chadron State College direct contact with the heritage of their peoples and nations are welcome to apply for admission. Inquiries concerning international undergraduate student admission may be directed to the Admissions Office.

International students must fulfill the procedures below:

1. Complete the International Student Application form and submit the non-refundable admission/matriculation fee in U.S. dollars to the Admissions Office. Applicants residing in a foreign country should make application no later than six months prior to the anticipated enrollment date. Students in the United States should allow four months to complete the admission process.
2. Transfer students in the United States must submit transfer authorization from the appropriate immigration officials. Complete transcripts from each college attended must be filed with the Registrar’s Office.
3. Demonstrate competency in the English language by providing official test scores on the Test of English as a Foreign Language (TOEFL). A minimum score of 550 is required for students taking the paper-based test and a minimum score of 213 is required for those taking the computerized test.
4. Provide evidence of capability to finance a program of study without assistance from Chadron State College. Proof of adequate coverage must be supplied to Chadron State College each year.
5. Provide their own insurance protection covering hospital and medical expenses, evacuation, and repatriation.
6. Health Form Requirement: All students entering any institution of the Nebraska State College System must show a physician-validated immunization record for two doses of measles, rubella, diphtheria, and tetanus. International students are required to present a record of skin testing for tuberculosis within six (6) months prior to first enrollment. This evidence must be presented before a student is permitted to register. (Individuals born before January 1, 1957 are considered immune to measles [rubeola] and are not required to show proof of two doses of MMR.)

A person may qualify for exemption to the required immunizations when one of the following conditions is met:

- The individual has a medical condition that contraindicates immunization. A physician licensed to practice medicine within the United States must submit a bonafide statement, with signature, indicating that immunization is unsafe for the individual. The nature and probable duration of the physical condition should be clearly specified. The exemption from immunization will not extend beyond the duration of the physical condition that contraindicates immunization.
- Immunization is contrary to the religious tenets and practices of the student. A CSC form must be signed and notarized prior to admission.
- The student is enrolled only in extended campus courses. The student will be required to provide immunization verification if they enroll for a course on the Chadron residential campus.

The student qualifying for an exemption must sign a waiver form provided by the College stating that the person may be subject to exclusion from the campus and college related activities if an outbreak of measles (rubeola) occurs on either the residential or the extended campus.

Issuance of the Certificate of Eligibility, Form I-20, will be made only upon completion of all admission requirements. The applicant assumes full responsibility to make all necessary arrangements through official channels for entrance into the United States.
Early Entry Student Admission

The High School Early Entry Program is extended to outstanding high school juniors and seniors whose maturity, achievement, aptitude, and goals warrant an opportunity to earn college credit prior to graduating from high school. Acceptance is contingent upon permission of parent, recommendation from a high school official, and the student achieving a 3.0 (4.0 scale) or 90% cumulative GPA. Early Entry students are limited to enrolling for a maximum of six hours per semester (100 and 200 level course work), with a total accumulation of 16 semester hours prior to completion of their high school requirements. College credit is granted upon verification of a high school diploma. Chadron State College is committed to offering a strong collegiate academic experience and does accept these courses into academic programs of study. If the student does not plan to complete their degree at CSC, he/she should check in advance with the institution of choice to verify acceptance of Early Entry credits. Contact the Admissions Office for additional information.

Non-degree Seeking Student Admission

A special classification of Non-Degree Seeking Students is provided for individuals who have no intent of pursuing a degree program. Such a classification is intended to enhance the enrollment of students seeking course work for reasons other than pursuing a bachelor’s degree program at Chadron State College. Students classified as a Non-Degree Seeking Students are not eligible for financial aid assistance.

Non-degree seeking status allows the student to complete as many hours as he/she chooses. Should the individual later wish to pursue a degree, a maximum of 26 semester credit hours may apply toward the first Bachelor’s Degree and all regular admission requirements must be met, including transcripts, status reports, and ACT/SAT scores. Application forms are available in the Admissions Office.

Special Merit Admissions

Students with special merit may be extended special consideration during the admissions process. Special consideration will be given to non-traditional students who present evidence of being able to succeed, returning adult students, students educated at home schools, students who are members of underrepresented groups, and students who can provide evidence of special talents such as creative art or with unique educational experience or career achievements. Students who wish to be considered for admission based upon special merit should contact the Admissions Office.

Veterans of Military Service Admission

Veterans who are graduates of accredited high schools are admitted to full freshman standing. Those who are not graduates of an accredited high school may take the “General Educational Development Test, High School Level” and, if they meet approved standards, may be admitted to full freshman standing. Special service schools may qualify the veteran for some college credit if such schools meet prescribed standards.

The “Guide to the Evaluation of Educational Experiences in the Armed Services,” prepared by the American Council on Education, will be used in evaluating the veteran’s military service training. The Registrar and appropriate school dean will evaluate each course as to equivalency and determine the semester-hours credit, based on the course offerings at Chadron State College. The veteran is responsible for submitting the exact information for each service training course along with a DD214. Veteran information or assistance may be obtained by contacting the Registrar.

Financial benefits for education are available to veterans under federal laws administered by the Veterans Administration.

Non-residents Classification for Admission and Fee Assessment

The statutes of Nebraska provide that all state educational institutions shall charge a non-resident fee for each non-resident of Nebraska who matriculates at any state institution. Non-resident status is determined in accordance with the statutes and current institution policies and is based upon evidence provided in the Application for Admission and related documents. Additional written documents, affidavits, verification, or other evidence may be required as deemed necessary to establish the status of any applicant. The burden of establishing exemption from non-resident fees is the responsibility of the student. Erroneous classification as a resident or willful evasion of non-resident fees may result in disciplinary action which may include dismissal as well as payment of required fees for each semester attended.

A student classified as a non-resident retains this status until he/she is officially approved for reclassification as a resident by completing the Application for Residency Classification Form, which is available in the Admissions Office. A student classified as a resident but whom becomes a non-resident as provided by the statutes must promptly notify the Admissions Office of such change. Residency status may be challenged when circumstances indicate a change of legal residence. Any sanctioned change of classification from non-resident to resident will not be made retroactive beyond the period in which the change is approved.
STUDENT REGISTRATION

ADVISING

Although the student is responsible for meeting all conditions and requirements of Chadron State College, faculty engage in student advising to assist students in the attainment of their academic goals. All freshmen and transfer students are assigned to an advisor by the Dean of the School. Exploratory students are guided through the advising process to career exploration and the selection of a major appropriate to their talents, interests, and personalities. Students are encouraged to declare a major prior to the second year of study, and required to declare a major prior to their junior year. The offices of the Registrar and Student Academic Success Services provide forms for changing advisor or major.

CLASS REGISTRATION

Responsibility for planning one’s course of study and for the fulfillment of all requirements and regulations lies with the student. The college general bulletin is the authoritative source of information on program and graduation requirements and regulations. Faculty advisors are assigned to aid the student in understanding the requirements and in planning his/her academic program.

Registration days are specified in the published class schedules. Students are encouraged to register for classes during the early enrollment period to ensure course availability. The College reserves the right to cancel courses with low enrollment. Furthermore, the College reserves the right to modify the published schedule without prior notice.

Class Load

The typical undergraduate class load, including work done through correspondence, is 16 hours per semester. Twelve hours is the minimum required for full-time status as a student. Students wishing to carry more than 18 semester hours during a semester must petition for this privilege using the form available in the Registrar’s Office prior to registration.

In general, petition for schedules in excess of 18 semester hours may be approved:
1. When the student’s cumulative grade point average is 2.75 or above, or in the case of a first semester freshman, the high school record shows an average of B or above.
2. When the student is a candidate for graduation and can complete final requirements only by carrying an overload.

The maximum load for any single summer session is seven hours.

Classification Of Students

A student who has satisfied college entrance requirements is ranked as a sophomore upon completion of 30 semester hours, as a junior upon completion of 60 semester hours, and as a senior upon completion of 90 semester hours.

Course Numbers

The FIRST DIGIT of a course number indicates the class level at which the student would ordinarily register for the course (freshmen in courses numbered 100 through 199, sophomores in courses numbered 200 through 299, juniors in courses numbered 300 through 399, seniors in courses numbered 400 through 499. Courses numbered 500 through 799 are graduate-level courses).

Enrollment limitations allow students to enroll one level above their class ranking. Further deviation requires the recommendation of the advisor and the instructor of the class, and the approval of the appropriate academic School Dean. As an example: A sophomore student could register for a course numbered 100 through 399, but could not register for a course numbered 400 through 499 without petition to their advisor, the course instructor, and the academic School Dean.

Courses numbered 500 through 599 are open to qualified seniors who have completed a baccalaureate degree or are within 16 semester hours of baccalaureate graduation. Undergraduate students wishing to register for graduate courses must submit written petition to the Dean of Professional and Graduate Studies.

Courses in the 600 series are open only to graduate students. Courses numbered 700 through 799 are for students who have completed the Master’s degree.
**Late Registration**

No students may register for a current semester after classes have been in session for five days without permission from the appropriate academic School Dean. After the tenth day of the semester, approval of the Senior Vice President for Academic and Student Affairs is required.

**Audit Registration**

Any student may elect to audit a class. An audited class does not count toward any graduation requirements at Chadron State College and is recorded as an “AU” on the academic transcript. Current tuition and fees are charged for audited courses.

Students may change from credit to audit until the seventh week of the semester, or before the midterm of non-semester offerings. However, changing a course from audit to credit is not allowed following the first week of courses in a semester, or the first day of summer classes.

Persons 65 years of age and older who audit one course per semester on a space-available basis may petition for a waiver of tuition for that course. Fees will not be waived. Self-paced study (correspondence), private lessons, and other courses with no available space are not available for this program. Forms are available from the Assistant Vice President for Enrollment Management.

**Changes of Registration and Withdrawal**

Any change of registration must be initiated by the student at the Registrar’s Office. The effective date of the change is the date on which the completed forms are processed by the Registrar’s Office.

1. **Adding or withdrawing from classes during the drop-add period:** During the first five days of a term and during the first two days of a summer session, a student may add or drop courses without academic penalty.
2. **Withdrawing from classes:** A student who withdraws from a course after the 100% refund period but before the end of the eleventh full week (or before the midterm of a non-semester offering) receives a grade of W. This grade is not computed into the grade point average. After the eleventh week (or after the midterm of a non-semester offering) a student may not withdraw and a grade other than W must be recorded.
3. **Withdrawing from the College:** A student who withdraws from the College after the 100% refund period but before the end of the eleventh week (or before the midterm of a non-semester offering) will receive a grade of W for each course. A student who withholds from the College after the eleventh week (or after the midterm of a non-semester offering) will receive a grade of W for courses the student is passing and F for courses the student is failing.

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**TUITION, FEES, AND FINANCIAL AID**

**COSTS AND REFUND**

The Board of Trustees for the Nebraska State Colleges establishes a schedule of tuition and fees to be charged by the State Colleges. Specific courses may have additional assessed fees. The current tuition and fees schedule may be obtained from the Business Office.

Refunds on tuition for the academic year are pro-rated, based on a schedule available in the Business Office. Students who receive Title IV funds will be subject to the student refund procedure requirements of the Higher Education Reauthorization Act of 1998. Details regarding this requirement are available from both the Business Office and the Financial Aid Office.

**FINANCIAL AID**

Financial aid is available for those seeking a degree or teaching certificate from Chadron State College. Financial aid programs consist of Federal and State grants, Federal Work Study, and Federal Student and Parent Loans. Students do not need to be enrolled full time to be eligible for financial aid. Students seeking financial aid must complete the admissions requirements for the degree program and the Free Application for Federal Student Aid (FAFSA) to qualify for consideration of financial aid. These applications are available through the Chadron State College Financial Aid Office or on-line at www.fafsa.ed.gov.

Students must be seeking a degree or teaching certificate from Chadron State College and must complete the Admissions requirements to be eligible for the Student Financial Aid programs. For information about the financial aid programs that are available, rights and responsibilities as a financial aid recipient, and other pertinent information, contact the Chadron State College Financial Aid Office or visit the web site www.csc.edu/finaid.
Scholarships

Chadron State College offers a variety of scholarships for students. These scholarships are awarded based on area of study, extracurricular activities, and academic criteria, which includes class rank, cumulative grade point average, and composite ACT score. Scholarship brochures and applications are available on-line at www.csc.edu, from the Admissions and Financial Aid Offices, or from an individual’s high school counselor. The application deadline for most scholarships is January 15th.

STUDENT ACADEMIC PERFORMANCE

ACADEMIC GRADING PERFORMANCE

The following grades are currently used at Chadron State College:

A — Superior performance
B — Excellent performance
C — Average performance
D — Below average performance
I — Indicates some portion of the student’s work is unfinished due to a justifiable reason. Issued at the discretion of the faculty member and academic School Dean, the I is replaced with a grade when the work is completed. If a grade is not submitted within twelve months or a shorter time frame as specified on the Request for an Incomplete form completed by the instructor and student, the grade of incomplete remains permanently on the record (effective August 26, 1974).

IP — Indicates a course continuing into the next term.
P — Passing performance
F — Failure to meet minimum requirements, or student failed to officially withdraw from course.
W — Indicates official withdrawal from a course with a passing grade.
AU — Indicates a non-graded participation in a course. Registration for audit requires full tuition and fees, even though no credit is awarded. The grade is automatically AU.

Grade Point Average

Chadron State College assigns quality points to letter grades as follows:

A .................. 4 points
B .................. 3 points
C .................. 2 points
D .................. 1 points
F .................. 0

To determine grade point average, the total number of quality points earned for each attempted credit hour is divided by the total credit hours attempted (including semester hours passed and failed). The grade point average is computed only for courses taken at Chadron State College for non-teaching majors, but utilizes all courses from all institutions attended for teaching majors (Bachelor of Science in Education degree).

ACADEMIC AMNESTY

Academic Amnesty permits students to eliminate one semester’s grades from their cumulative grade point average. The courses and grades will appear on the transcript with a notation that the student was given amnesty and these courses are not part of the cumulative grade point average. All courses taken during the semester will be subject to amnesty, including self-paced study (correspondence) and those courses which were successfully completed.

Only returning students can apply for academic amnesty. Application must be made following the posting of grades for which amnesty is sought, but no later than ninety (90) calendar days of the subsequent Fall or Spring semester of enrollment. Since amnesty may affect financial aid awards, students receiving financial aid should contact the Office of Financial Aid prior to applying for amnesty. Further information is available from the Registrar’s Office.
ACADEMIC HONORS

Deans’ and President’s List
During the fall and spring semesters, the Deans’ List (3.5-3.99 GPA) and President’s List (4.0 GPA) are established to honor undergraduate students for their academic achievements. Students completing at least 12 credit hours with no incomplete grades during that semester are eligible to receive a Certificate of Recognition. The Senior Vice President for Academic and Student Affairs Office presents the certificate to the student.

Graduation Honors
Students pursuing their first baccalaureate degree may be eligible to graduate with honors from Chadron State College. Honor designations are calculated at the end of the semester prior to the semester in which graduation occurs. The student must have completed at least forty-five CSC semester hours at the end of this prior semester, with a cumulative grade point average as follows:

- 3.90 - 4.00 summa cum laude
- 3.75 - 3.89 magna cum laude
- 3.60 - 3.74 cum laude

ACADEMIC PROBATION AND SUSPENSION

Probation
Probation is a warning to the student that his/her grades are below the academic standards of Chadron State College. A student will be placed on probation if:

- his/her cumulative grade point average is below 2.00, or
- as a first-year student, he/she earns less than a 1.00 in his/her initial semester at Chadron State College. The first year student will be allowed to continue for one additional semester on probation.

The student’s failure to bring his/her cumulative grade point average to a successful level will result in academic suspension from Chadron State College.

Students on probation may be required to participate in activities designed to facilitate academic success.

Suspension
Academic suspension results in a student being denied enrollment in academic programs at Chadron State College, except in summer terms and in directed independent study courses. A student will be suspended under the following conditions:

- A student who is not a first-time, first-semester student and who earned less than a 1.00 cumulative grade point average will be academically suspended.
- A student who has been placed on probation will be academically suspended from the College if his/her semester grade point average (GPA) falls below 2.50 and his/her cumulative GPA falls below the following scale:
  - After attempting 1-29 CSC semester hours.............1.25
  - After attempting 30-44 CSC semester hours.............1.50
  - After attempting 45-59 CSC semester hours.............1.76
  - After attempting 60+ CSC semester hours.............2.00
- A transfer student, including those classified as a first-year student, who earned less than a 2.00 GPA in their first semester will be academically suspended.

The first academic suspension from Chadron State College is for one semester. The second (and subsequent) suspension from Chadron State College is for three years.

Appeals
A student may appeal an academic suspension or probation if he/she believes that an error occurred or if extenuating circumstances affected the scholastic performance and would warrant retention in or admission to college. The appeal is initiated with written petition on a form available from the office of the Senior Vice President for Academic and Student Affairs. Faculty members within the Student Academic Review Committee will consider the appeal. If re-entry is allowed, the Committee may require specific conditions and participation in activities designed to facilitate academic success.

A second suspension is not appealable.
STUDENT CONDUCT

ACADEMIC HONESTY

Students are encouraged and expected, with the assistance of the faculty, to conduct themselves in conformity with the highest standards with regard to academic honesty. Violation of college, state, or federal standards with regard to plagiarism, cheating, or falsification of official records will not be tolerated. Students violating such standards will be advised and disciplined. Violations of these standards may result in course failure, suspension, or dismissal from the college. Students are encouraged to seek the advice of instructors as to the proper procedures to avoid such violations.

The following acts are examples of academic dishonesty:
1. Cheating – intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.
2. Fabrication – intentional and unauthorized falsification or invention of any information or citation in an academic exercise.
3. Facilitating Academic Dishonesty – intentionally or knowingly helping or attempting to help another in an act of academic dishonesty.
4. Plagiarism – appropriating or imitating language, ideas, and thoughts of another author, representing them as one’s own original work.

The following acts are examples of plagiarism:
1. Submitting an assignment that someone else has written and claiming the work as one’s own.
2. Submitting an assignment that contains sections, paragraphs, sentences or key phrases that someone else has written without appropriately documenting the source(s) for each portion of the assignment not written by the student submitting the assignment.
3. Submitting an assignment that contains paraphrased ideas from another source, published or unpublished, without approximately documenting the source for each paraphrase. (Changing around a few words in a sentence from the source is not sufficient to avoid plagiarism.)

“Someone else” in the three statements above may refer to a published author, another student, an internet source, or any person other than the student claiming credit for the assignment. If an individual is unsure in how to document sources used within an assignment, they are encouraged to ask their professor or the reference librarian for assistance.

CIVILITY

Civil behavior enhances the academic setting, and is expected at all times. Courtesy and respect for others are essential elements of the academic culture. The academic environment welcomes a difference of opinion, discourse, and debate within a civil environment.

CLASS ATTENDANCE

Faculty provide added value to individual study, facilitating understanding, interpretation, and application of information available to students through assigned readings, external learning opportunities, and in-class presentation. Attendance during regularly-scheduled class presentations facilitates academic success, and students are expected to be present during scheduled class periods. Students who are absent from class should consult their professors, as any absence jeopardizes the student’s understanding of the course material. Faculty members are encouraged to assist students with make-up work if the absence was for college-related activities or approved by the faculty member as an unavoidable absence. Responsibility for arranging make-up study rests with the student.

Lists of students anticipating absence for college-related activities will be distributed to faculty. These students will be excused from their classes but not from the work required in those classes.
1. Candidates who plan to complete requirements for graduation in December must file formal application with the Registrar by April 15. Those who plan to graduate in May must file by November 15.

2. If the student’s program of study qualifies them for more than one degree (ex., a double major in Bachelor of Arts – Business Administration and Bachelor of Science – Range Management), the student must select the degree (Bachelor of Arts or Bachelor of Science) to be conferred. Both majors will be recorded on the transcript.

3. A 2.5 grade point average (from all institutions attended) must be attained for the Bachelor of Science in Education programs. A grade point average of 2.0 (from CSC) must be attained for all other Baccalaureate degrees.

4. A minimum of 125 semester hours must be earned, of which 45 hours must be in 300 or 400 (junior or senior) level courses, to meet the requirements for all baccalaureate degrees.

5. A minimum completion of at least 30 semester hours of credit from Chadron State College is required.

6. Twenty-four of the last thirty semester hours of credit must be from Chadron State College. No more than 12 of the last 30 hours may be self-paced study (correspondence) courses.

7. No more than 66 credit hours may be transferred or applied towards a Bachelor of Arts, Bachelor of Science, or Bachelor of Science in Education degree from one or more two (2) year institutions. No more than 70 hours may be transferred or applied towards a Bachelor of Applied Science degree from one or more two-year institutions.

8. As part of the graduation process, exit assessments for all academic programs and General Studies are required of all students. Dates and times of these assessments will be scheduled and taken throughout the candidate’s final year at Chadron State College.

9. Candidates must have completed or be enrolled in all courses required for the degree prior to application for graduation. Any coursework required for the degree that is incomplete or in progress from a previous term must be completed and graded thirty (30) days prior to commencement. All self-paced study (correspondence) coursework must be completed and graded thirty (30) days prior to commencement for the student to be eligible to graduate at that commencement.

10. Students may not claim the right to graduate under the provision of a General Bulletin issued more than five years prior to the end of the semester in which they expect to complete their work, unless they have been in military service or have earned college credit in residence at Chadron during each calendar year since beginning the program of study. Students are required to use a General Bulletin of the year they enrolled or a subsequent General Bulletin.

11. Candidates for degrees are required to take part in the formal exercises of commencement unless prior notification is given to the Registrar. Candidates for degrees are required to wear the academic cap and gown at the commencement exercise. All commencement regalia are ordered through the Eagle Pride Bookstore.

SECOND BACCALAUREATE DEGREE

A second baccalaureate degree may be earned by completing at least 30 credit hours beyond the first degree and satisfying the current requirements for the second degree at Chadron State College. A student may not earn more than one degree simultaneously at Chadron State College. Students pursuing a second baccalaureate degree are not eligible for graduation academic honors.

PETITION FOR WAIVER OR EXCEPTION OF COLLEGE ACADEMIC REGULATIONS

Any request for waiver or exception to the undergraduate academic policies and regulations stated in the Chadron State College General Bulletin must be submitted as a written petition to the office of the Senior Vice President for Academic and Student Affairs. Consideration will be given to the petition by the Council of Academic Deans or the appropriate faculty recommendation committee. A written response will be returned to the petitioning student.
GENERAL UNDERGRADUATE EDUCATION REQUIREMENTS

PROGRAMS OF STUDY

To serve the educational needs of western Nebraska and adjoining areas, Chadron State College offers programs of study leading to:

- BACHELOR OF APPLIED SCIENCES
- BACHELOR OF ARTS
- BACHELOR OF SCIENCE
- BACHELOR OF SCIENCE IN EDUCATION

Bachelor of Applied Science

The Bachelor of Applied Science is designed to provide a specialized program leading toward a baccalaureate degree for individuals in technical occupations. Admission to this degree is restricted to those individuals who transfer to Chadron State College with a completed Associate of Science, Associate of Applied Science, or Associate of Occupational Science degree from an accredited community college. Students are required to develop a designated program of study developed prior to admission into this degree program. The specialized general studies requirements for this degree are listed with the degree program. Additional information can be obtained from the Extended Campus Programs office.

Bachelor of Arts and Bachelor of Science

The Bachelor of Arts and Bachelor of Science degrees provide content area programs of study for entrance into a professional workforce (exclusive of education) or continued graduate-level study.

In addition to the general requirements for graduation, candidates for the Bachelor of Arts and the Bachelor of Science degree are required to complete the General Studies program and the requirements for at least one subject major and either a second major or a minor, or one comprehensive major. Elective courses may be selected to reach the total 125 semester hour minimum requirement for graduation.

Second Major

A student may earn multiple majors simultaneously at Chadron State College by satisfying the requirements for each major as outlined by the institution. Only one degree is granted, although all completed majors are recognized on the student’s transcript.

Minors

The selection of a minor must be in an area (as identified by the national Classification of Instructional Programs code) other than the selected major. Minors are required in conjunction with subject majors (30-36 hours), but are not required in conjunction with comprehensive majors (48-57 hour). However, a minor may be added as long as 50 percent of the coursework is unduplicated by the major.

Bachelor of Science in Education

The degree of Bachelor of Science in Education is conferred upon those who complete the teacher-preparation programs of study. In addition to the general requirements for graduation, candidates for the degree of Bachelor of Science in Education must complete the General Studies program, and the Professional Education requirements for their certificate. Students pursuing elementary education are required to complete one content minor specifically designed for elementary education (K-8) or an additional endorsement. Students pursuing middle school education must also complete two content areas of specialization programs of study. Students pursuing secondary education must also complete one subject or field endorsement plus the corresponding special methods course. Programs of study fulfill the Nebraska Department of Education requirements for teaching certification. Students planning on teaching in other states should seek assistance from their advisor or the Certification Officer to ensure fulfillment of the teaching certification requirements for those other states.
Pre-Professional Curricula

Students may pursue a pre-professional program, such as pre-law, pre-engineering, or pre-nursing, at Chadron State College before transferring to a professional school. Pre-professional programs last from one to four years depending upon the profession, professional schools, and the student’s specific academic and extra-curricular interests. Each professional school specifies the courses a student must complete before seeking admission into that school. Therefore, each student’s program of study must be specifically designed to satisfy the admissions requirements of the professional schools into which the student wishes to seek admission as well as his/her own educational needs. Students interested in pre-professional programs should contact the appropriate academic School Dean.

Teacher Certification Endorsement

Information concerning the specific requirements for the various teaching certificates in Nebraska may be secured from the office of the Certification Officer in the Department of Education.

Academic Certification of Study

An Academic Certificate of Study is provided to students who complete a coherent and defined coursework plan. These recognized knowledge clusters have been developed to assist the student in enhancing knowledge and proficiency, career success, employment opportunities, and personal development. For more information contact the Assistant Vice President for Extended Campus Programs.

GENERAL STUDIES FOR BACHELOR OF ARTS, BACHELOR OF SCIENCE, AND BACHELOR OF SCIENCE IN EDUCATION

(Bachelor of Applied Science general studies requirements are listed on page 36.)

Philosophy of General Studies

The principal educational goal of Chadron State College is students’ intellectual development, which is best achieved through offering high quality educational opportunities. The College endorses a plan of study that promotes depth and proficiency in a single subject area as well as a breadth of knowledge crossing many academic disciplines. The General Studies Program is designed to encourage broader intellectual development by offering a variety of stimulating courses taught by enthusiastic instructors with expertise in their fields. This structured inquiry into the wider world of knowledge provides each student with avenues for self-discovery. The General Studies Program aims to produce constructively critical, intellectually curious graduates who are informed of global and social issues and who recognize the importance of their individual contributions towards creating a better world.

To achieve these goals, the Chadron State College General Studies Program:

- Encourages students to explore fields of communication focusing upon effective expression of ideas and information, emphasizing skills in reading, writing, speaking, mathematics, and information technology;
- Encourages students to explore the social environment, including individual and group interaction, the structure and function of social institutions, and the historical, cultural, and technological development of past and present civilizations;
- Encourages students to explore the humanities, including literature, philosophy, and the fine arts, both in their reflection of past values and their relevance to contemporary life;
- Encourages students to explore the natural sciences, focusing on the scientific method of inquiry, basic scientific principles, the relationship of science and humanity, and the future challenges and opportunities for science and society; and
- Encourages students to explore ways of maintaining physical and mental health, both as individuals and in the society as a whole, and to recognize the importance of these attitudes for intellectual development and a sense of well-being.

Objectives of General Studies

The specific objectives of the Chadron State College General Studies program and curriculum are to:

- Assist the student in developing abilities to independently gain access to information and knowledge, critically reason, objectively analyze and solve problem, creatively think, perceive assumptions, construct arguments, use evidence, and perceptively listen and observe;
- Assist the student in acquiring basic knowledge of our social environment (including technological aspects), of the humanities and the arts, and of the natural sciences;
• Assist the student in developing proficiency in written and oral communication and in the language and symbols of mathematics, including the ability to understand mathematics as a language in which to express, define, and answer questions about the world;
• Provide the student with a basic knowledge, understanding, and appreciation for the various cultures and societies in the world;
• Produce positive changes in the student through the knowledge of personal health habits and physical activities which enhance the personal living environment;
• Assist the student in the ability to integrate and establish meaningful relationships between disciplines or bodies of knowledge;
• Enhance the ability of the student to understand personal values and the values of others and the ethical and moral implications of that knowledge; and
• Enable the student to develop a level of maturity and proficiency in a field of knowledge.

Assessment of General Studies
As part of Chadron State College’s commitment to academic excellence, an assessment of the general studies program is administered to graduating seniors during their final year on campus. Dates and times of these exams will be announced several weeks prior to the actual testing and students will be notified to register. Participation is required for all students who plan to graduate from Chadron State College.

General Studies Program
The Chadron State College Honors Program is described on the following page.

Composition - 6 Hours, selected from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 135</td>
<td>Composition I, 3 hrs.</td>
<td></td>
</tr>
<tr>
<td>ENG 136</td>
<td>Composition II, 3 hrs.</td>
<td></td>
</tr>
<tr>
<td>ENG 137</td>
<td>Technical Writing I, 3 hrs.</td>
<td></td>
</tr>
<tr>
<td>ENG 240</td>
<td>Adv Grammar and Comp, 3 hrs.</td>
<td></td>
</tr>
<tr>
<td>HONS 100/200/300</td>
<td>Honors Seminar, 3 hrs.</td>
<td></td>
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<tr>
<td>HONS 401</td>
<td>Senior Thesis and Colloquium, 3 hrs.</td>
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</table>

Communication - 3 Hours, selected from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BA 331</td>
<td>Business Communications, 3 hrs.</td>
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</tr>
<tr>
<td>CA 230</td>
<td>Conflict Resolution and Mediation, 3 hrs.</td>
<td></td>
</tr>
<tr>
<td>CA 233</td>
<td>Multimedia &amp; Presentation Speaking, 3 hrs.</td>
<td></td>
</tr>
<tr>
<td>CA 225</td>
<td>Interper &amp; Sm Group Comm, 3 hrs.</td>
<td></td>
</tr>
<tr>
<td>HONS 401</td>
<td>Senior Thesis and Colloquium, 3 hrs.</td>
<td></td>
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</tbody>
</table>

Mathematics - 3 Hours
MATH - one course selected from mathematics to extend knowledge in mathematics and to complement major, 3 hrs.

Humanities - 3 Hours, selected from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HONS 101</td>
<td>Human Nature, 3 hrs.</td>
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<tr>
<td>HUM 231</td>
<td>Patterns in the Humanities, 3 hrs.</td>
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<tr>
<td>PHIL 231</td>
<td>Introduction to Philosophy, 3 hrs.</td>
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</table>

Fine Arts - 3 Hours, selected from:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ART 239</td>
<td>Elements of Art, 3 hrs.</td>
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<tr>
<td>MUS 235</td>
<td>Elements of Music, 3 hrs.</td>
<td></td>
</tr>
<tr>
<td>ENG 233</td>
<td>Elements of Literature, 3 hrs.</td>
<td></td>
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<tr>
<td>TH 235</td>
<td>Elements of Theatre, 3 hrs.</td>
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</tbody>
</table>

Science - 6 Hours, one course from each area, one course must include a lab
Biological - One course selected from Biological Science to extend knowledge in life science and to complement major, 3 hrs.
Physical - One course selected from the physical sciences (chemistry, geoscience, or physics) to extend knowledge in physical science and to complement major, 3 hrs.

Government - 3 Hours, selected from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONS 201</td>
<td>Human Society, 3 hrs.</td>
<td></td>
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<tr>
<td>P S 341</td>
<td>Comparative Politics, 3 hrs.</td>
<td></td>
</tr>
<tr>
<td>P S 231</td>
<td>American National Government, 3 hrs.</td>
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</tr>
</tbody>
</table>
History - 6 Hours, selected from:
HIST 231 U.S. History to 1877, 3 hrs.
HIST 232 U.S. History Since 1877, 3 hrs.
HIST 233 Western Civilization I, 3 hrs.
HIST 234 Western Civilization II, 3 hrs.
HONS 201 Human Society, 3 hrs.

Health/Wellness - 3 Hours, selected from:
FCS 337 Nutrition, 3 hrs.
HPER 233 Health/Wellness, 3 hrs.

Physical Activities - 2 Hours, selected from:

Global and Social Awareness - 6 Hours (3 hours MUST be upper division), selected from:
AGRI 431 International Food Policy, 3 hrs.
Biol 448/448L Ethnobot. of the N. Plains, 4 hrs.
ECON 130 Survey of Economics, 3 hrs.
ECON 332 International Econ & Societies, 3 hrs.
ENG 436 World Literature, 3 hrs.
FCS 335 Families in Society, 3 hrs.
FCS 436 Global Food Systems, 3 hrs.
GEOG 300 World Cultures, 3 hrs.
GEOG 137 Environmental Geology, 3 hrs.
HIST 320 The Asian Cultural Realm, 3 hrs.
HONS 100/200/300 Honors Seminar, 3 hrs.
HONS 201 Human Society, 3 hrs.
HUM 335 Comparative Religion, 3 hrs.
HUM 336 Hispanic Civilization, 3 hrs.
HUM 432 World Mythology and Folklore, 3 hrs.
ITE 331 Humankind, Society and Tech., 3 hrs.
MUS 436 African-American Popular Music, 3 hrs.
PS 332 International Politics, 3 hrs.
PHYS 435 World Environmental Issues, 3 hrs.
PSYC 421 Culture and Psychology, 3 hrs.
S S 323 Law and the American Society, 3 hrs.
SOC 335 Ethnic & Minority Grp. Relat., 3 hrs.
SOC 340 Social Change, 3 hrs.
SPAN 131 First Year Spanish I or appropriate course
to enhance competency in Spanish, 3 hrs.

International, multicultural, and other special program which instill global and social awareness may be petitioned to Academic Review to meet the Global and Social Awareness requirements. Written petitions should be submitted to the Senior Vice President for Academic and Student Affairs.

Reason and Values - 3 Hours, selected from:
B A 431 Professional Ethics, 3 hrs.
HONS 301 Human Knowledge, 3 hrs.
PHIL 333 Logic, 3 hrs.
PHIL 432 Ethics, 3 hrs.

NOTE: Up to (9) hours of general studies courses can apply toward any comprehensive major or any minor. No courses required in a subject major (30-36 hours) can be used to meet General Studies Program requirements. Some degree programs specify general studies courses; check the program requirements for the major you are seeking.

HONORS PROGRAM

The Honors Program is an enriched interdisciplinary program for academically talented students motivated by intellectual curiosity. A college-wide community of scholars provides top students an opportunity to discover a diversity of opinions that convey knowledge about ourselves, our world, and our place in it through research, seminar participation, and an active engagement in the process of self-discovery.

Students in the program are part of a campus learning community who live together in Edna Hall, the newly renovated Honors residence hall. Honors students have the opportunity to interact socially with faculty and one another through regularly scheduled field trips, Honors luncheons, and other activities.

The Honors Program seeks to:
- enhance active participation in the process of discovery by assisting students in developing abilities to gain information and knowledge independently through research and scholarship, reason critically, analyze and solve problems objectively and think creatively;
- assist students in the ability to integrate and establish meaningful relationships between disciplines and bodies of knowledge;
- enable students to develop a level of maturity and proficiency in a field of knowledge;
• assist students in cultivating a basic awareness of how they share the planet with others and increase the students’ understanding of their individual responsibility in a global world;
• assist students in acquiring basic knowledge of our social environment and provide them with an enhanced knowledge, understanding, and appreciation for the various diverse cultures and societies in the world;
• assist students in acquiring enhanced knowledge of the humanities and the arts; and
• enhance the ability of students to understand their personal values and the values of others and the ethical and moral implications of that knowledge.

High school seniors who have an ACT of 24 or above and rank in the top 25% of their high school graduating class may apply for admission to the Honors Program. Transfer students and currently enrolled Chadron State College students who have a grade point average of 3.5 or above may also apply. The admission process includes completion of an application, three letters of recommendation from individuals familiar with the student’s academic ability, and an essay on a topic selected by the Honors Committee. Applications forms are available from the Director of the Honors Program in the School of Arts and Sciences. Students completing all 16 hours of the program will receive special graduation recognition.

**PROGRAM REQUIREMENTS**

<table>
<thead>
<tr>
<th>Freshman Year:</th>
<th>Sophomore Year:</th>
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<tbody>
<tr>
<td>HONS 100 Honors Seminar</td>
<td>HONS 200 Honors Seminar</td>
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<tr>
<td>Fall</td>
<td>Fall</td>
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<tr>
<td>1 cr.</td>
<td>1 cr.</td>
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<tr>
<td>HONS 101 Human Nature</td>
<td>HONS 201 Human Society</td>
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<tr>
<td>Spring</td>
<td>Spring</td>
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<tr>
<td>3 cr.</td>
<td>3 cr.</td>
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<td>4 cr.</td>
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<th>Junior Year:</th>
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<tbody>
<tr>
<td>HONS 300 Honors Seminar</td>
</tr>
<tr>
<td>Fall</td>
</tr>
<tr>
<td>1 cr.</td>
</tr>
<tr>
<td>HONS 301 Human Knowledge</td>
</tr>
<tr>
<td>Spring</td>
</tr>
<tr>
<td>3 cr.</td>
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<tr>
<td>Select Thesis Topic and Advisor</td>
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<tr>
<td>Spring</td>
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<tr>
<td>0 cr.</td>
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<tr>
<td>4 cr.</td>
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<tr>
<th>Senior Year:</th>
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<tbody>
<tr>
<td>HONS 401 Senior Thesis</td>
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<tr>
<td>Spring</td>
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<tr>
<td>3 cr.</td>
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<tr>
<td>4 cr.</td>
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**HONS 100/200/300  Honors Seminar**
Weekly presentations by a professional with reading material assigned prior to the presentation. Students will produce one research paper prompted by any one presentation. May be repeated for credit, and completion of any three semesters fulfills three hours of General Studies Program Composition or Global and Social Awareness requirement. All Honors Program students will enroll in the Honors Seminar each fall.

**HONS 101  Human Nature**
A study of philosophical, religious, scientific and literary explorations of ideas of human nature. Fulfills General Studies Program Humanities requirement.

**HONS 201  Human Society**
An examination of ideas about how humans might best live together with texts drawn from political philosophy, history, economics and literature. Fulfills three of the twelve hours of General Studies Program Government, History, or Global and Social Awareness requirement. (Cannot count HONS 100, 200, 300, and 201 for 6 hours of Global and Social Awareness.)

**HONS 301  Human Knowledge**
A study of ideas about what it means to know and how knowledge has been acquired in various academic disciplines. Fulfills the three hours of General Studies Program Reason and Values requirement.

**HONS 401  Senior Thesis and Colloquium**
Under the guidance of the Honors Director and a professor in their major, students complete a thesis in their area of study and present it publicly at an Honors colloquium held in the spring. Fulfills three hours of General Studies Program Composition or Communication requirement.
INTERDEPARTMENTAL COURSE DESCRIPTIONS

The undergraduate, academic disciplines at Chadron State College are grouped into two schools: Arts and Sciences, and Professional and Graduate Studies. The Interdisciplinary, Information Resource Management and Library Media Specialist majors and the Bachelor of Applied Sciences program are located in the Interdepartmental Degree Programs section prior to the School offerings in this catalog.

COLG 121 First Year Seminar
Credit 3 hours
Assists the student in obtaining academic skills and knowledge necessary to reach his/her educational objective, including memory development, time management, test-taking, communication skills, career planning, study skills and techniques, questioning skills, understanding diversity, and career issues.

COLG 131 Portfolio Development
Credit 3 hours
Designed by the Alternate Learning Program to provide opportunities for granting credit for college-level learning acquired outside the traditional college classroom. Course content includes the development of an experiential learning portfolio, preparation of a degree plan, traditional and nontraditional avenues for earning college credit, and a basic college orientation to facilities, resources, services, policies, and personnel.

ALTERNATIVE LEARNING EXPERIENCES

ADVANCED PLACEMENT

College credit may be earned through the Advanced Placement (AP) program. All advanced placement test scores accepted by Chadron State College must be a score of 3 or higher. Contact the Dean of Students Office for further information.

COLLEGE LEVEL EXAMINATION PROGRAM—CLEP

Chadron State College provides an opportunity for enrolled students to earn college credit through the College Level Examination Program (CLEP). In order to receive credit from Chadron State College, CLEP tests must be completed before an individual has taken any college level course in the field in which credit is sought. Chadron State College accepts up to 18 hours of CLEP credit toward degree completion. All CLEP credit hours contribute to a maximum of 42 hours of experiential learning credit. Details are available from the Dean of Students Office.

COURSE CHALLENGE

An enrolled student at Chadron State College may challenge a course from the Chadron State College General Bulletin for college credit without having taken the course, except:
1. When the course is a prerequisite to a course already taken,
2. When the course has been taken previously for audit or credit, or
3. When the course has been determined to be ineligible for challenge by the academic school.

Requests to challenge a course must be made to the Dean of the School in which the course is listed, who will determine if the course is available for challenge and whether the challenge shall be by comprehensive examination and/or by some other evidence of competence in the subject matter of the course. Credit will be granted only if the grade received on the challenge is a “C” or above. The credit will be recorded on transcripts and calculated into earned hours.

Forms for course challenges are available from the Registrar’s Office. Fees are determined annually and are charged through the Business Office.
SELF-PACED STUDY
(Correspondence Courses)

For students who need the flexibility of self-paced study and who possess the ability and motivation to work outside of the classroom and without supervision, CSC offers an extensive correspondence program. In addition to traditional paper and mail based courses, some courses are also available in electronic formats using the Internet. Full payment of tuition and fees is due upon registration for all correspondence courses. Correspondence courses may not be audited.

Students have the option of enrolling for correspondence courses in either a full-year format or in a semester-based format.

- **Full year format.** Students have one calendar year from the end of the semester in which they enrolled to complete the course. A grade is filed upon completion of the course or at the end of the one year period, whichever occurs first. If the course is not completed within that time, the enrollment is withdrawn and no renewals will be granted, except by special permission or by re-enrollment at full cost.

- **Semester-based format.** Students begin and complete courses at the same time as other spring and fall semester courses. Unlike full-year courses, semester-based courses may qualify for financial aid. Once registered for semester-based courses, students may not change to the full-year option. Semester-based correspondence courses are subject to the same policies and time restrictions as other semester-based CSC courses. Semester-based correspondence courses may be subject to enrollment limitations. A grade is filed at the end of the semester of enrollment.

Enrollment is completed through the Extended Campus Program Office.

INDEPENDENT STUDY

Independent Study allows a student to learn independently under the supervision of a faculty member outside the normal classroom setting. The intent of Independent Study courses is to support and encourage in-depth study in areas beyond the traditional course offerings. (This differs from Self-Paced Study, which is a structured correspondence-based method of earning college credit for a traditional course.) A limit of nine credit hours of independent study courses can be taken in a career with no more than six hours completed in any one department. Exceptions to this policy can be made only through written petition to the Senior Vice President for Academic and Student Affairs.

INTERNSHIPS

The Internship Program provides a structured educational experience integrating classroom theory with supervised, planned, and progressive work experience in the student’s field of study. The program is designed to supplement and compliment the traditional curriculum of Chadron State College. The goal of this experience will be to enhance the student’s educational, professional, and personal development.

Internship credit can apply toward degree, elective, and/or upper division hour requirements for graduation. To be eligible, a student must have completed 30 credit hours and demonstrate academic achievement, personal maturity, and readiness. A student may be approved for 1-12 hours of internship credit per academic term. A maximum of 18 hours of internship credit may be applied toward a degree. Students interested in participating in an internship should secure application materials from the Internship and Career Services Office. The student’s academic advisor and the departmental faculty coordinator must approve the student and the internship site before the student begins an internship.
PRIOR LEARNING CREDIT PROGRAM (PLC)

The Prior Learning Credit Program provides the opportunity for enrolled adult students (25 years or older) to receive up to 18 semester credit hours for college-level learning acquired outside the traditional college classroom. By developing a portfolio documenting college level learning which has occurred through work experience, employment, in-service training, military, intensive reading, and other activities, a student may qualify to receive college credit for classes where comparable learning would occur. Students seeking Prior Learning Credit are required to complete COLG 131 Portfolio Development prior to submission of the portfolio. Information is available through the Office of Extended Campus Programs.

TRAVEL FOR CREDIT PROGRAM

Supplemental learning through travel opportunities are developed for which students may receive credit. In the past, tours have included Europe, Japan, Canada, the Bahamas, and Mexico as well as various parts of the United States, including Alaska and Hawaii.

EXTENDED CAMPUS PROGRAMS

Extended Campus Programs initiates, coordinates, and distributes courses and degree completion programs in flexible formats to meet identified educational needs. A variety of alternative learning solutions, distance and distributed delivery systems, and support services are utilized to facilitate student access and to promote students’ intellectual growth; personal, cultural and social development; increased earnings capacity; and expanded career opportunities through lifelong learning.

Additionally, Extended Campus Programs works to extend college resources and involvement throughout western Nebraska and the central Great Plains. Extended Campus Programs partners with individuals and state and local agencies to develop resources for communities, schools, economic initiatives, businesses, and industry across the region.

Course work offered through Extended Campus Programs is considered residency credit. As such, courses will be given equal status and share the same restrictions as credit earned on campus.

Additional information is available from the Assistant Vice President for Extended Campus Programs.

COURSE DELIVERY SYSTEMS

Responding to the continually growing and changing needs of students everywhere, Chadron State College employs a variety of course delivery systems to respond to different learning styles and to optimize course variety, access, and delivery times.

Community-Based Courses

Each semester, CSC faculty teach courses from various disciplines in communities throughout western Nebraska. Community-based courses are intended to meet specific needs in each community, to provide heightened personal faculty/student contact in courses with exceptionally large enrollments, or to provide communities with courses designed around special knowledge and skills of local faculty persons.

Interactive Distance Learning Courses

Chadron State College utilizes advanced telecommunications and satellite technologies to transmit interactive distance learning (IDL) classes to and from dedicated facilities in Scottsbluff, North Platte, Alliance, Sidney, and McCook, Nebraska. Access to other communities is available through terrestrial and satellite systems. As a member of the Western Nebraska Distance Learning Consortium, CSC also has access to more than 20 interactive distance learning classrooms in high schools throughout western Nebraska.

The office of Interactive Distance Learning also facilitates all videoconferencing for the campus, down linking C-band, Ku-band, and NET II and NET III satellite technologies.
Online (Internet-based) Courses
Chadron State College offers numerous courses via the Internet for anytime-anywhere access. The academic departments are continually developing additional opportunities, including degree completion programs, for online access.

INTERDEPARTMENTAL DEGREE PROGRAMS

APPLIED SCIENCES DEGREE

The Degree of Bachelor of Applied Sciences with a COMPREHENSIVE MAJOR IN TECHNICAL OCCUPATIONS:
The Bachelor of Applied Sciences degree is specifically designed to accept transfer of Associate of Applied Science (AAS); Associate of Science (AS); or Associate of Occupational Science (AOS) degrees from accredited two-year institutions. Technical course work completed in associate degree is enhanced at Chadron State College with general education and advanced support courses to meet the career and educational goals of the student. The course work allows students to individualize a plan of study in one of the following options: Health Care, Computers and Electronics, Industrial Trades, Agricultural Operations, Management Services or Post-secondary Technical Career Education.

Transfer of Courses
Chadron State College will accept up to 50 semester credit hours of concentrated technical course work included in an AS, AAS, or AOS degree from an accredited technical school or community college. Up to an additional 20 hours of general education courses or electives may be accepted.

Degree Requirements
Maximum Technical Transfer Courses ........................................................................................................... 50 hours
Minimum General Education Courses ......................................................................................................... 40 hours
Minimum Upper Division Support Courses ................................................................................................. 36 hours
Minimum Total Hours ................................................................................................................................... 125 hours

General Education Requirements
CA 125 Fund of Oral Communications...........3 HPER 233 Health and Wellness..........................3
ENG 135 Composition I ......................3 HUM 231 Patterns in the Humanities .............3
ENG 137 Technical Writing I .............3 PS 231 American National Government .......3

To be selected from General Studies Program described on page 30-31.
Fine Art ...........................................3 Physical Activities .........................................1
Global & Social Awareness ...................6 Reason & Values ...........................................3
History ..........................................3 Science .........................................................3
Mathematics .....................................3

Special Requirements
• Each student is assigned a three-member faculty advisory committee to assist in the development of a specific plan of study.
• An Associate of Science, Associate of Applied Science, or Associate of Occupational Science degree from an accredited institution is required for admittance to this program.
• A maximum of 70 semester hours may be transferred from a technical or community college.
INTERDISCIPLINARY STUDIES DEGREE

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN INTERDISCIPLINARY STUDIES:

The Bachelor of Arts with a Comprehensive Major in Interdisciplinary Studies is designed for the motivated student who is seeking specific degree competencies not fulfilled by traditional degree programs offered through Chadron State College. This program is intended to meet the needs of students who are self-directed, have a clear sense of educational purpose, and are able to integrate learning experiences across the academic curriculum. Following an approved curriculum, the student completes an individualized educational experience intended to provide a coherent, goal-oriented, academically sound knowledge base that is directly relevant to the intellectual development and career path of the student.

Degree Requirements

General Studies as listed on page 30-31 ........................................................................................................47
Courses selected in consultation with academic advisor
(a minimum of 45 hours must be 300 or 400 level courses) ....................................................................78
Total .........................................................................................................................................................125

Special Requirements

- Application for the Bachelor of Arts with a Comprehensive Major in Interdisciplinary Studies must be made to the Assistant Vice President for Extended Campus Programs prior to completing 90 semester hours of college credit.
- At least 42 of the total semester hours must be taken in classroom instruction. The balance may be obtained through self-paced instruction, Prior Learning Credit Program, CLEP, or Internships. No more than 42 semester hours may be earned through a combination of experiential credit programs (CLEP, Prior Learning Credit, Internships), with not more than 18 semester credit hours earned from any one experiential credit program.
- Students must follow a plan of study preapproved by the student’s advisor and the Assistant Vice President for Extended Campus Programs.

ELECTRONIC INFORMATION MANAGEMENT

Learning Outcomes

Upon completion of this program, students should be able to:
- Adapt and apply the principles of collection development, cataloging, reference, management, and assessment in library environments.
- Describe formats of information sources with diverse points of view and discuss the legal and ethical responsibilities of providing access.
- Apply traditional and innovative technologies to support library services.
- Describe professional attitudes and philosophies of service needed to meet the information needs of diverse populations.

The Degree of Bachelor of Arts with a MAJOR IN INFORMATION RESOURCE MANAGEMENT:

A student must complete the following program in addition to the General Studies requirements and a major or minor in another program of study:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 130</td>
<td>Intro to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>IST 230</td>
<td>Intro to Internet Applications</td>
<td>3</td>
</tr>
<tr>
<td>LMS 332</td>
<td>Organization of Resources</td>
<td>3</td>
</tr>
<tr>
<td>LMS 333</td>
<td>Library Administration</td>
<td>3</td>
</tr>
<tr>
<td>LMS 334</td>
<td>Information Resources</td>
<td>3</td>
</tr>
<tr>
<td>LMS 335</td>
<td>Selection &amp; Assessment of Resources</td>
<td>3</td>
</tr>
<tr>
<td>LMS 434</td>
<td>Electronic Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>LMS 439</td>
<td>Procedures &amp; Practice in LM</td>
<td>3</td>
</tr>
<tr>
<td>IST 230</td>
<td>Intro to Internet Applications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 130</td>
<td>Principles of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MIS 331</td>
<td>Database Management</td>
<td>3</td>
</tr>
<tr>
<td>MIS 431</td>
<td>Systems Analysis &amp; Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 33
The degree of Bachelor of Science in Education with an FIELD ENDORSEMENT IN LIBRARY MEDIA SPECIALIST:

A student must either currently hold a teaching certificate or concurrently earn a field or subject endorsement in another area and complete the following program with a minimum G.P.A. of 2.50, complete the General Studies, and Professional Education requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 235</td>
<td>Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 438</td>
<td>Adolescent Literature</td>
<td>3</td>
</tr>
<tr>
<td>IST 230</td>
<td>Introduction to Internet Applications</td>
<td>3</td>
</tr>
<tr>
<td>LMS 332</td>
<td>Organization of Resources</td>
<td>3</td>
</tr>
<tr>
<td>LMS 333</td>
<td>Library Administration</td>
<td>3</td>
</tr>
<tr>
<td>LMS 334</td>
<td>Information Resources</td>
<td>3</td>
</tr>
<tr>
<td>LMS 335</td>
<td>Selection &amp; Assessment of Resources</td>
<td>3</td>
</tr>
<tr>
<td>LMS 336</td>
<td>Electronic Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>LMS 337</td>
<td>Procedures &amp; Practice in LM</td>
<td></td>
</tr>
<tr>
<td>MIS 130</td>
<td>Principles of Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 30

*Includes completion of EDUC 431e Special Methods.

Students from outside of Nebraska are not required to hold a teaching certificate, be concurrently enrolled in a field or subject endorsement in another area, or complete CSC Professional Education requirements, but should confirm certification requirements with the Department of Education in their state of residence prior to enrollment.

MINOR in Library Information Management (K-8)

A student must complete the following program with a minimum G.P.A. 2.50 in addition to the General Studies requirements and Professional Education requirements in Elementary Education. This program does not fulfill certification requirements for Library Media Specialist in Nebraska.

*Professional Education

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS 230</td>
<td>Introduction to Internet Applications</td>
<td>3</td>
</tr>
<tr>
<td>LMS 332</td>
<td>Organization of Resources</td>
<td>3</td>
</tr>
<tr>
<td>LMS 333</td>
<td>Library Administration</td>
<td>3</td>
</tr>
<tr>
<td>LMS 334</td>
<td>Information Resources</td>
<td>3</td>
</tr>
<tr>
<td>LMS 335</td>
<td>Selection &amp; Assessment of Resources</td>
<td>3</td>
</tr>
<tr>
<td>LMS 336</td>
<td>Electronic Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>LMS 339</td>
<td>Procedures &amp; Practice in Library Media</td>
<td></td>
</tr>
<tr>
<td>MIS 130</td>
<td>Principles of Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 21

*Includes completion of EDUC 431e Special Methods.

**COURSE DESCRIPTIONS**

**LMS 132 Introduction to Libraries and Research**

Research and composition course introduction to library services. Exploration of printed and electronic resources for basic library research. Emphasizes writing for comprehension and use of standard style sheets. Prerequisite: ENG 135.

**LMS 332 Organization of Resources**

Basic tools and techniques of cataloging and bibliographic control are introduced through the identification and application of the elements of bibliographic description, subject analysis, and classification with emphasis on the formation of MARC records for automated catalogs and cataloging systems.

**LMS 333 Library Administration**

Introduces the basic principles of library management, including policies, planning, standards, budgeting, assessment, communications, public relations, staff supervision, cooperation, and library services.

**LMS 334 Information Resources**

Selection and use of basic electronic and print resources appropriate to reference and information services. Understanding the nature, theory, and objectives of information services work, including evaluation, selection, and use the most appropriate resources. Special attention is paid to the process of question negotiation and diversity of customer needs.
LMS 335 Selection and Assessment of Resources Credit 3 hours
Fundamental principles of collection development. Characteristics and functions of media with an emphasis on the selection and evaluation of resources. Examines needs and interest, selection criteria, acquisitions procedures, collection assessment, as well as the implications of resource sharing and electronic sources for the collection development process.

LMS 390 Internship in Library Media Credit 1-12 hours
Provides practical work experience in college, public, school, or special libraries. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

LMS 400/500 Independent Study of Library and Media Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Dean’s approval required.

LMS 432/532 Current Topics in Library Media Credit 1-3 hours
Offered in three sections—a, b, c—with a change of emphasis in each offering. The student researches in depth and discusses current developments with the attendant problems and promises in areas of a) Library and Media Customers, b) Information Services, and c) Current Library and Media Technology. Available to upper-level LMS students and to others with the approval of instructor.

LMS 434 Electronic Information Technology Credit 3 hours
Consideration and use of electronic information resources and systems, including construction of searches, use of appropriate search systems/engine, evaluation of information sites, and evaluation and interpretation of search results.

LMS 439 Procedures and Practice in Library Media Credit 3 hours
Application of principles and techniques of educational library media to actual media programs. The college library and other libraries serve as laboratories and provide real practice under trained supervision. Prerequisites: LMS 332, 333, 334, and 335.
SCHOOL OF ARTS AND SCIENCES

DEPARTMENT OF LANGUAGE, LITERATURE, AND COMMUNICATION ARTS

Student Learning Outcomes

The following general outcomes are designed to address the various programs offered by the department. Specific learning outcomes for each program are available from your advisor. Students will:

- Use language effectively.
- Understand and appreciate literature.
- Explore some of the philosophical issues of modern times.
- Develop proficiency in a foreign language.
- Gain knowledge and practical experience in print and journalism.
- Enhance understanding of their own and others’ cultures through the humanities.
- Develop communication skills in the areas of public relations, mass media, business and intra/inter-group relations.

COMMUNICATION ARTS

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN COMMUNICATION ARTS: A student must complete the Core requirements and one of the Options listed in addition to the General Studies requirements. Students pursuing this combination major are strongly recommended to enroll in SPAN 131, First Year Spanish and MATH 232, Applied Statistics, to fulfill the General Studies requirements for Global and Social Awareness and Mathematics.

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>C A 231</td>
<td>Introduction to Desktop Publishing ..........</td>
<td>3</td>
</tr>
<tr>
<td>C A 233</td>
<td>Multimedia &amp; Presentational Speaking ......</td>
<td>3</td>
</tr>
<tr>
<td>C A 234</td>
<td>Photojournalism ..................................</td>
<td>3</td>
</tr>
<tr>
<td>C A 238</td>
<td>Introduction to Mass Media ...................</td>
<td>3</td>
</tr>
<tr>
<td>C A 333</td>
<td>News Journalism ..................................</td>
<td>3</td>
</tr>
<tr>
<td>C A 334</td>
<td>Theories &amp; Practices of Persuasion ..........</td>
<td>3</td>
</tr>
<tr>
<td>C A 346</td>
<td>Intercultural Communication ..................</td>
<td>3</td>
</tr>
<tr>
<td>C A 351</td>
<td>Organizational Communication ..................</td>
<td>3</td>
</tr>
<tr>
<td>C A 390</td>
<td>Internship in Communication ..................</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C A 391</td>
<td>Internship in Journalism ......................</td>
<td>3</td>
</tr>
<tr>
<td>C A 434</td>
<td>Editing and Design ..................................</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong> ........................................</td>
<td><strong>30</strong></td>
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Communication Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>C A 420</td>
<td>Relational &amp; Family Communication ..........</td>
<td>3</td>
</tr>
<tr>
<td>C A 430</td>
<td>Communication Research Methods ..............</td>
<td>3</td>
</tr>
<tr>
<td>C A 440</td>
<td>Gendered Communication ........................</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Upper division CA courses</strong> ..................</td>
<td><strong>3</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong> ........................................</td>
<td><strong>54</strong></td>
</tr>
</tbody>
</table>

Journalism Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 229</td>
<td>Intro to Graphic Design ......................</td>
<td>3</td>
</tr>
<tr>
<td>ART 329</td>
<td>Graphic Design II ..................................</td>
<td>3</td>
</tr>
<tr>
<td>C A 431</td>
<td>Publication Projects ..........................</td>
<td>6</td>
</tr>
<tr>
<td>ENG 240</td>
<td>Adv. Grammar and Composition ...............</td>
<td>3</td>
</tr>
<tr>
<td>ENG 337</td>
<td>Technical Writing II ............................</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 231</td>
<td>Principles of Marketing .......................</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 336</td>
<td>Advertising ......................................</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong> ........................................</td>
<td><strong>54</strong></td>
</tr>
</tbody>
</table>
Public Relations Option

| Core Requirements | C A 350 Public Relations Multimedia | 3 |
| ART 229 Intro to Graphic Design | C A 430 Communication Research Methods | 3 |
| C A 230 Conflict Resolution & Mediation | C A 431 Publication Projects | 3 |
| C A 250 Public Relations Techniques | MKTG 231 Principles of Marketing | 3 |
| | MKTG 336 Advertising | 3 |
| Total | 54 |

MINORS in Communication Arts

**Communication:** A student must complete the following program in addition to the General Studies Requirements and a major in another area.

- C A 233 Multimedia & Presentational Speaking ... 3
- C A 334 Theories & Practices of Persuasion .... 3
- Elective I* ................................................. 3
- Elective II** ............................................. 6
- Elective III*** ............................................ 6

*Elective I: one course to be selected from C A 225, 230, 260.
**Elective II: Two courses to be selected from C A 351, 353, 430.
***Elective III: Two courses to be selected from C A 346, 420, 440.

**Journalism:** A student must complete the following program in addition to the General Studies Requirements and a major in another area.

- C A 231 Intro to Desktop Pub ..................... 3
- C A 234 Photojournalism ............................ 3
- C A 238 Intro to Mass Media ...................... 3
- ENG 337 Tech Writing II ............................ 3
- Total 21

**Public Relations:** A student must complete the following program in addition to the General Studies Requirements and a major in another area.

- ART 229 Intro to Graphic Design .................. 3
- C A 230 Conflict Resolution and Mediation .... 3
- C A 250 Public Relations Techniques .......... 3
- C A 350 Public Relations Multimedia ........... 3
- C A 430 Communication Research Methods ...... 3
- C A 431 Publication Projects ..................... 3
- C A 434 Editing and Design ....................... 3
- Total 21

COURSE DESCRIPTIONS

**C A 125 Fundamentals of Oral Communication**  
Credit 3 hours  
Develops understanding and skills necessary for effective oral communication. Activities will include public speaking, group discussion, interviewing, and interpersonal communication.

**C A 144 Oral Interpretation and Performance Studies**  
Credit 3 hours  
Introduction to the performance of literature and personal narratives. Theory and application in literary analysis, presentation modern, and criticism. Study of how performance is used as an aspect of and research tool for the study of every-day communication.

**C A 225 Interpersonal and Small Group Communication**  
Credit 3 hours  
Study of the dynamics of interpersonal communication in a one-to-one relationships and small-groups through experiential exercises and selected readings. Designed to improve the students’ interpersonal communication skills and enhance knowledge about the importance of communication in interpersonal settings.

**C A 230 Conflict Resolution and Mediation**  
Credit 3 hours  
Examination of the nature, myths, theories, and strategies of conflict management and resolution. Mediation styles and strategies will be practiced in small group settings. Includes speaking activities as well as analysis of argumentation in interpersonal, public, and organizational settings.
C A 231  Introduction to Desktop Publishing  Credit 3 hours
Electronic publishing techniques emphasizing actual preparation of advertisements, brochures, newsletters, and programs. Topics covered based on selected DTP computer hardware configurations and software applications for layout, graphics, and text-formatting.

C A 233  Multimedia and Presentational Speaking  Credit 3 hours
Practice in current uses and application of mediated technology to deliver persuasive, informative, impromptu, special occasion, and seminar-style speeches. Students will be expected to write speeches and use technology in the delivery of those speeches.

C A 234  Photojournalism  Credit 3 hours
Techniques and practical application of black-and-white photography skills. Lecture and laboratory time include planning and shooting story-telling photographs, developing film, cropping, enlarging, and printing photographs, writing cutlines for newspapers, magazines, yearbooks, or other publications.

C A 238  Introduction to Mass Media  Credit 3 hours
A study of print and non-print media and their application to public communications. Field trips may be required.

C A 250  Public Relations Techniques  Credit 3 hours
An overview of current theory and practice in the public relations profession using case studies, exercises, and projects that emphasize media relations, promotion, and research.

C A 260  Introduction to Communication Theory  Credit 3 hours
Examination of the origins, development, and uses of communication theories as they apply to communication dynamics.

C A 333  News Journalism  Credit 3 hours
The principles of news and feature writing in conjunction with publication of THE EAGLE, the student newspaper.

C A 334  Theories and Practices of Persuasion  Credit 3 hours
Current studies in persuasive theory and practices in persuasion. May include study of debate, political, mediated, and interpersonal communication. Students will be expected to analyze and critique persuasive messages from varied sources.

C A 346  Intercultural Communication  Credit 3 hours
Practical and theoretical aspects of intercultural communication as applied toward diversity issues and minority groups inside and outside the United States. A special focus on application to interpersonal and organizational communication.

C A 350  Public Relations Multimedia  Credit 3 hours
A study of creative and effective writing practices across media currently used in the public relations field.

C A 351  Organizational Communication  Credit 3 hours
The nature and flow of communication in modern organizations (such as businesses, political structures, hospitals, etc.) through applied theory, diagnosis, and problem solving skills. Examination of communication between management, employees, and the community. Students will be expected to analyze communication environments and present communication findings to the class.

C A 353  Health Communication  Credit 3 hours
Communication theory, research, and applications in health care, health promotion, and wellness industries. Variables influencing communication between and within health care providers and consumers are examined.
C A 390  Internship in Communication  Credit 1 - 12 hours
Provides practical experience in a field related to Communication Arts. Interested students should contact the Internship and Career Services office to secure application materials. Dean of the School of Arts and Sciences, Department Chairperson, and the student’s major advisor must approve program prior to semester of internship. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

C A 391  Internship in Journalism  Credit 1-12 hours
Provides practical work experience program on the staff of a mass media outlet. Dean of the School of Arts and Sciences, Department Chairperson, and student’s major advisor must approve program prior to semester of internship. Application must be submitted to the Director of Internships at least 30 days prior to semester of internship. Open to upper division students with previous course credit in journalism. Selection of interns based upon availability of work positions and the qualifications of the applicants.

C A 400  Independent Study/Research  Credit 1 - 3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of Instructor and Dean is required.

C A 420  Relational and Family Communication  Credit 3 hours
Advanced interpersonal course to explore current interpersonal research in modern family relationship situations. In-depth exploration of intimate communication, parent-child communication, child-child communication, and extended family communication in the western tradition and interculturally.

C A 430  Communication Research Methods  Credit 3 hours
A review of research methods used in the discipline of Communication wherein students can gain an understanding of and practice in research design. Students will be exposed to both quantitative and qualitative methodologies.

C A 431  Publication Projects  Credit 1-3 hours
(a) Production work on the student newspaper, THE EAGLE. The student arranges for weekly lab work.
(b) Production work on the student yearbook. The student arranges for weekly lab work.
May be repeated with a change of emphasis up to a maximum of nine (9) credit hours. Prerequisite: CA 333 or permission of Instructor.

C A 434  Editing and Design  Credit 3 hours
Principles of editing and designing publication with emphasis on newspapers, especially THE EAGLE. May be repeated with a change of emphasis up to a maximum of 9 credit hours. Prerequisite: CA 333 or permission of Instructor.

C A 435  Topics in Communications  Credit 1 - 3 hours
Special tropics in communications. May be repeated with change of emphasis.

C A 436  Seminar in Communication  Credit 3 hours
Designed to meet the specific needs of a group of students. May be repeated with a different topic. Admission by permission of Communication Arts faculty.

C A 440  Gendered Communication  Credit 3 hours
Explores gender as a communication variable in settings ranging from interpersonal relationships, organizational settings, to public or mass communication.
LANGUAGE AND LITERATURE

The Degree of Bachelor of Arts with a SUBJECT MAJOR IN LITERATURE: A student must complete the following program in addition to the General Studies requirements and a major or minor in another area.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 335</td>
<td>Hist. of Amer. Lit. (a) &amp; (b)</td>
<td>6</td>
<td>ENG 435</td>
<td>Native American Literature</td>
<td></td>
</tr>
<tr>
<td>ENG 338</td>
<td>Hist. of Eng. Lit. (a) &amp; (b)</td>
<td>6</td>
<td>ENG 436</td>
<td>World Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 339</td>
<td>Creative Writing</td>
<td>3</td>
<td>ENG 437</td>
<td>Dramatic Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 431</td>
<td>Topics in English (taken twice with different emphasis)</td>
<td>6</td>
<td>ENG 440</td>
<td>Theory &amp; Practice of Literary Criticism</td>
<td>3</td>
</tr>
<tr>
<td>ENG 432</td>
<td>Shakespeare</td>
<td>3</td>
<td>ENG 441</td>
<td>English &amp; American Novels</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total</td>
<td>36</td>
</tr>
</tbody>
</table>

The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN ENGLISH (7-12): A student must complete the following program in addition to the General Studies and Professional Education requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 238</td>
<td>Introduction to Mass Media</td>
<td>3</td>
<td>ENG 435</td>
<td>Native American Literature</td>
<td></td>
</tr>
<tr>
<td>ENG 240</td>
<td>Advanced Grammar &amp; Composition</td>
<td>3</td>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>ENG 331</td>
<td>Theory &amp; Practice of Writing</td>
<td>3</td>
<td>ENG 338</td>
<td>Creative Writing</td>
<td>6</td>
</tr>
<tr>
<td>ENG 335</td>
<td>Hist. of Amer. Lit. (a) &amp; (b)</td>
<td>6</td>
<td>ENG 432</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENG 338</td>
<td>Hist. of Eng. Lit. (a) &amp; (b)</td>
<td>6</td>
<td>ENG 440</td>
<td>Theory &amp; Practice of Literary Criticism</td>
<td>3</td>
</tr>
<tr>
<td>ENG 432</td>
<td>Shakespeare</td>
<td>3</td>
<td>ENG 441</td>
<td>English &amp; American Novels</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total</td>
<td>36</td>
</tr>
</tbody>
</table>

The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN LANGUAGE ARTS (7-12): A student must complete the following program in addition to the General Studies and Professional Education requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 144</td>
<td>Oral Interpret &amp; Perform Studies</td>
<td>3</td>
<td>ENG 338</td>
<td>Hist. of Eng. Lit. (a) &amp; (b)</td>
<td>6</td>
</tr>
<tr>
<td>CA 225</td>
<td>Interpersonal &amp; Small Group Comm. OR</td>
<td></td>
<td>ENG 339</td>
<td>Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>CA 231</td>
<td>Introduction to Desktop Publishing</td>
<td></td>
<td>ENG 432</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>C A 346</td>
<td>Intercultural Communications</td>
<td>3</td>
<td>ENG 435</td>
<td>Native American Literature</td>
<td></td>
</tr>
<tr>
<td>C A 333</td>
<td>News Journalism</td>
<td></td>
<td>ENG 436</td>
<td>World Literature</td>
<td>3</td>
</tr>
<tr>
<td>C A 334</td>
<td>Theories &amp; Practices of Persuasion</td>
<td>3</td>
<td>ENG 338</td>
<td>Adolescent Literature</td>
<td>3</td>
</tr>
<tr>
<td>C A 434</td>
<td>Editing &amp; Design</td>
<td></td>
<td>ENG 440</td>
<td>Theory &amp; Practice of Literary Criticism</td>
<td>3</td>
</tr>
<tr>
<td>ENG 240</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
<td>ENG 441</td>
<td>English &amp; American Novels</td>
<td>3</td>
</tr>
<tr>
<td>ENG 331</td>
<td>Theory and Practice of Writing</td>
<td>3</td>
<td>READ 430</td>
<td>Reading in the Middle/Sec Sch</td>
<td>3</td>
</tr>
<tr>
<td>ENG 335</td>
<td>History of Amer. Lit. (a) &amp; (b)</td>
<td>6</td>
<td>TH 134</td>
<td>Principles of Acting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TH 159 &amp; 159L Technical Theatre and Lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TH 237</td>
<td>Beginning Directing</td>
<td>3</td>
</tr>
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</tr>
</tbody>
</table>

The Degree of Bachelor of Science in Education with a MIDDLE GRADES CONTENT AREA OF SPECIALIZATION IN LANGUAGE ARTS (4-9): A student must complete the following program in addition to the General Studies and Professional Education Middle Grades requirements and one other Content Area of Specialization for Middle Grades.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 240</td>
<td>Advanced Grammar &amp; Composition</td>
<td>3</td>
<td>ENG 339</td>
<td>Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 331</td>
<td>Theory &amp; Practice of Writing</td>
<td>3</td>
<td>ENG 338</td>
<td>Adolescent Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 335</td>
<td>Hist. of Amer. Lit. (a) or (b)</td>
<td>3</td>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>ENG 338</td>
<td>History of Eng. Lit. (a) or (b)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>
MINORS in English

**English:** A student must complete the following program in addition to a major in another area and the General Studies requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 333</td>
<td>News Journalism</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 240</td>
<td>Adv. Grammar &amp; Composition</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 337</td>
<td>Technical Writing II</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 339</td>
<td>Creative Writing</td>
<td></td>
</tr>
</tbody>
</table>

**Total** 21

**English (K-8):** A student must complete the following program in addition to the General Studies and Professional Education, Elementary Education requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 233</td>
<td>Elements of Lit.</td>
<td>3</td>
</tr>
<tr>
<td>ENG 240</td>
<td>Advanced Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENG 331</td>
<td>Theory &amp; Practice of Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 335</td>
<td>History of American Literature (a)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 336</td>
<td>World Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 339</td>
<td>Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 345</td>
<td>Native American Literature</td>
<td>3</td>
</tr>
<tr>
<td>HUM 432</td>
<td>World Mythology &amp; Folklore</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 21

COURSE DESCRIPTIONS

**ENG 135 Composition I**  
Instruction in the processes of writing well-organized essays and in the necessary critical thinking that precedes such writing. When necessary, the principles of grammar will be reviewed. Prerequisite: A minimal score of 19 on the ACT English test or 43 on the ASSET test. Students not meeting either requirement may enroll in Composition I after receiving a passing grade in ACFS 005 (Developmental Writing) offered by Western Nebraska Community College.

**ENG 136 Composition II**  
A continuation of Composition I with increased emphasis on the processes involved in developing essays requiring research. Prerequisite: ENG 135.

**ENG 137 Technical Writing I**  
Instruction in expository techniques, organization patterns, and realistic situations encountered in science and industry. Prerequisite: ENG 135.

**ENG 233 Elements of Literature**  
A study of the elements of poetry, drama, and fiction.

**ENG 235 Children’s Literature**  
A study of literature written for children and adolescents that provides a critical background for interpreting, evaluating and teaching the literature.

**ENG 240 Advanced Grammar and Composition**  
Techniques of writing non-fiction prose, including invention, research, organization, expression, style, and grammar.

**ENG 331 Theory and Practice of Writing**  
An examination of various methods and programs in teaching writing, including practical experience in responding to writing.

**ENG 335 History of American Literature**  
(a) A chronological study of American literature from its beginning to 1865.  
(b) A chronological study of American literature from 1865 to the present.
ENG 337  Technical Writing II  
Credit 3 hours
A continuation of English 137, Technical Writing I, with emphasis on reports and writing for specific application to individual problems and publications. Prerequisite: ENG 137 or permission of Instructor.

ENG 338  History of English Literature  
Credit 3 hours
(a) A chronological study of English language and literature from its beginnings to 1795.
(b) A chronological study of English literature from 1795 to the present.

ENG 339  Creative Writing  
Credit 3 hours
Writing instruction designed to improve the students’ expression in poetry and prose.

ENG 400  Independent Study or Research  
Credit 3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of Instructor and Dean is required.

ENG 431  Topics in English  
Credit 3 hours
Special topics in English. May be repeated with a change of emphasis.

ENG 432  Shakespeare  
Credit 3 hours
Shakespeare’s works, with particular attention paid to those plays most commonly taught in the middle and senior high schools. Field trips may be required.

ENG 435  Native American Literature  
Credit 3 hours
A study of the history, themes, and/or genres of literature produced by and about Native Americans.

ENG 436  World Literature  
Credit 3 hours
A study of representative poetry, drama, and prose fiction selected from global literature. Field trips may be required. Texts not originally published in the English language will be read in English translation.

ENG 438  Adolescent Literature  
Credit 3 hours
A study of literature suitable for grades 7-12 that provides a critical background for interpreting, evaluating, and teaching that literature.

ENG 439  Dramatic Literature  
Credit 3 hours
A study of selected dramatic literature.

ENG 440  Theory and Practice of Literary Criticism  
Credit 3 hours
An overview of current theoretical trends, such as psychoanalysis, ethnicity and race studies, structuralism, poststructuralism, and Marxism, as they relate to the practice of various forms of literary criticism.

ENG 441  English and American Novels  
Credit 3 hours
A study of selected English and American novels.

HUMANITIES

MINOR in Humanities

The student must complete the following program in addition to a major and the General Studies requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 331</td>
<td>Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>HUM 334</td>
<td>Introduction to Film</td>
<td>3</td>
</tr>
<tr>
<td>HUM 334L</td>
<td>Introduction to Film Screening Lab</td>
<td>1</td>
</tr>
<tr>
<td>HUM 335</td>
<td>Comparative Religion</td>
<td>3</td>
</tr>
<tr>
<td>HUM 432</td>
<td>World Mythology &amp; Folklore</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 231</td>
<td>Intro to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>One 3 hour elective in the Humanities</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total: 19
COURSE DESCRIPTIONS

HUM 231 Patterns in the Humanities Credit 3 hours
The formal study of cultural ideas and values as they achieve expression through the arts and philosophy.

HUM 331 Popular Culture Credit 3 hours
The formal study of selected themes which are expressed in contemporary popular art forms.

HUM 334 Introduction to Film Credit 3 hours
An examination of the art of film. Field trips may be required. Must be taken concurrently with HUM 334L.

HUM 334L Introduction to Film Screening Laboratory Credit 1 hour
Film screening. Must be taken concurrently with HUM 334.

HUM 335 Comparative Religion Credit 3 hours
An exploration of the various philosophical approaches basic to the study of religion. Examines a variety of religious experiences and beliefs in the comparative context of world religions.

HUM 337 Hispanic Civilization Credit 3 hours
Study of behavior, attitudes, and customs in the Spanish-speaking world. Knowledge of Spanish helpful, but not required.

HUM 400 Independent Study or Research Credit 1-3 hours
Study or research in area of special interest. Permission of Instructor and Dean is required.

HUM 432 World Mythology and Folklore Credit 3 hours
A survey of world myth and folklore as major sources of inspiration, allusion, and imagery in the expressive arts.

HUM 434 Exploration in the Humanities Credit 3 hours
Exploration of visual, performing, or language arts. Previous experience and background are desirable but not necessary. Field trips may be required.

PHILOSOPHY

PHIL 231 Introduction to Philosophy Credit 3 hours
A study of traditional and contemporary approaches to major philosophical issues.

PHIL 333 Logic Credit 3 hours
A study of methods for systematic, critical evaluations of assertions and arguments.

PHIL 400 Independent Study or Research Credit 1-3 hours
Advanced study or research in a special field of philosophy. Permission of Instructor and Dean required.

PHIL 432 Ethics Credit 3 hours
A study of the major philosophical theories that attempt to describe the nature of morality and/or to prescribe the means by which acts may be judged moral or immoral.
SPANISH

The Degree of Bachelor of Arts with a SUBJECT MAJOR IN SPANISH: A student must complete the following program in addition to the General Studies requirements and a major or minor in another area:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 231*</td>
<td>Second Year Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 232</td>
<td>Second Year Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 317</td>
<td>Survey of Spanish Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 333</td>
<td>Survey of Spanish-American Lit</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 333L</td>
<td>Spanish Lab</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 334</td>
<td>Spanish Grammar &amp; Composition</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 335</td>
<td>Spanish Composition &amp; Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 336</td>
<td>Spanish Life &amp; Society</td>
<td>OR</td>
</tr>
<tr>
<td>SPAN 337</td>
<td>Hispanic Civilization</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Spanish</td>
<td></td>
<td>OR</td>
</tr>
<tr>
<td>Courses offered in Mexico or Spain</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

Students who major in Spanish are encouraged to explore options for studying in a Spanish-speaking country. Chadron State College has a summer program to study in Mexico and Spain. The Department also helps students select study abroad programs in other parts of Latin America and Spain.

*Requires two years of high school Spanish or SPAN 132.

The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN FOREIGN LANGUAGE (7-12): A student must complete the following requirements in addition to the General Studies and Professional Education requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 231*</td>
<td>Second Year Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 232</td>
<td>Second Year Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 317</td>
<td>Survey of Spanish Literature</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPAN 333</td>
<td>Survey of Spanish-American Lit</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 333L</td>
<td>Spanish Lab</td>
<td>6</td>
</tr>
<tr>
<td>SPAN 334</td>
<td>Spanish Grammar &amp; Composition</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 335</td>
<td>Spanish Composition &amp; Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 336</td>
<td>Spanish Life &amp; Society</td>
<td>OR</td>
</tr>
<tr>
<td>SPAN 337</td>
<td>Hispanic Civilization</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Spanish</td>
<td></td>
<td>OR</td>
</tr>
<tr>
<td>Courses offered in Mexico or Spain</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

*Requires two years of high school Spanish or SPAN 132.

For the endorsement, EDUC 431S Special Methods must be taken. Since the course must be taken prior to student teaching, students are to consult their advisors to schedule the course at the appropriate time.

MINOR in Spanish

The student must complete the following program in addition to a major in another area and the General Studies requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 231*</td>
<td>Second Year Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 232</td>
<td>Second Year Spanish II</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 333L</td>
<td>Spanish Lab</td>
<td>1</td>
</tr>
<tr>
<td>SPAN 335</td>
<td>Spanish Composition &amp; Conversation</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Spanish (at the 300 level or above)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Courses offered in Mexico or Spain</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>20</td>
</tr>
</tbody>
</table>

*Prerequisite required for SPAN 231 is SPAN 132 or two years of high school Spanish.

Students who minor in Spanish are encouraged to explore options for studying in a Spanish-speaking country. Chadron State College has summer programs to study in Oaxaca, Mexico and Madrid, Spain. The Department also helps students select study abroad programs in other parts of Latin America and Spain.

COURSE DESCRIPTIONS

SPAN 131 First Year Spanish I  Credit 3 hours

Introduction to Spanish with the purpose of developing intelligent recognition and imaginative self-expression in the language. Total immersion in the Spanish language with the goal of spontaneous communication and interaction.
SPAN 132  First Year Spanish II  
Credit 3 hours
Continuation of SPAN 131, with increased emphasis on oral expression and aural comprehension. Audio-lingual abilities are reinforced by additional reading and writing in Spanish. Prerequisite: SPAN 131 or one year of high school Spanish.

SPAN 231  Second Year Spanish I  
Credit 3 hours
Further work in spontaneous and controlled conversational skills, review of grammar, increased cultural awareness, and collateral reading. Prerequisites: SPAN 132 or two years of high school Spanish.

SPAN 232  Second Year Spanish II  
Credit 3 hours
A continuation of SPAN 231. Prerequisites: SPAN 231 or three years of high school Spanish.

SPAN 238  Summer Program Abroad  
Credit 6 hours
Extensive exposure to the Spanish language and to one of the countries where it is spoken. Course offered only in conjunction with four weeks residence in a Spanish speaking country.

SPAN 270  Topics in Spanish  
Credit 1-3 hours
Topics addressing the need for Spanish in particular professions and vocations. May be repeated with a change of emphasis.

SPAN 317  Survey of Spanish Literature  
Credit 3 hours
Survey of Spanish literature from medieval times to the present.

SPAN 333  Survey of Spanish-American Literature  
Credit 3 hours
Survey of Spanish-American literature from colonial times to the present.

SPAN 333L  Spanish Lab  
Credit 1-3 hours
Individualized audio, video, and multimedia practice. Prerequisite: Spanish 232.

SPAN 334  Spanish Grammar and Composition  
Credit 3 hours
Introduction to advanced study of grammatical structure and a practical application of grammar in composition. Prerequisite: SPAN 232.

SPAN 335  Spanish Composition and Conversation  
Credit 3 hours
Emphasizes oral and written expression utilizing readings reflect the themes to which students can relate for class discussion, topics for conversation, and writing assignments. Prerequisite: SPAN 232.

SPAN 336  Spanish Life and Society  
Credit 3 hours
Spanish civilization from prehistoric to contemporary times. Stresses issues of general interest to promote discussion and research among students. Prerequisite: SPAN 232.

SPAN 337  Hispanic Civilization  
Credit 3 hours
Latin American civilization from Ancient America to contemporary Latin America. When the course is cross-offered as a Humanities course, the lectures and readings will be in English.

SPAN 390  Internship in Spanish  
Credit 1-12 hours
Internships will be done within the environment of a Spanish language experience. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.
SPAN 400  Independent Study or Research  Credit 1-3 hours
Open to students who wish to do advanced work in a special field of Spanish. Conferences to be arranged. Permission of Instructor and Dean is required.

SPAN 430  Advanced Topics in Spanish  Credit 3 hours
An advanced study of different topics of special interest, taught in Spanish. Prerequisite: One 300 level Spanish course.

SPAN 438  Advanced Summer Program Abroad  Credit 6 hours
Extensive exposure to Spanish language and to one of the countries where it is spoken. Stresses functional use of contemporary Spanish in conversation and composition. Course offered only in conjunction with four weeks residence in a Spanish speaking country.

DEPARTMENT OF MATHEMATICAL SCIENCES

Departmental Learning Outcomes
The objectives of the Mathematical Sciences discipline area are as follows:

• Students will build the foundations of knowledge required of future mathematical scientists and mathematics educators.
• Students will develop the ability to communicate with and about the mathematical sciences.
• Students will apply the mathematical sciences, including information science and statistics, in other academic disciplines.

INFORMATION SCIENCE AND TECHNOLOGY

The Degree of Bachelor of Science with a SUBJECT MAJOR IN INFORMATION SCIENCE AND TECHNOLOGY: A student must complete the following program in addition to the General Studies requirements and a major or minor in another area. MATH 138 or MATH 151 must be taken to satisfy the General Studies Mathematics requirement.

IST 133  Programming Concepts I .......................................................... 3  ITE 230  Electrical & Electronic Systems ...................................... 3
IST 134  Programming Concepts II ......................................................... 3  ITE 345d  Digital Electronics ....................................................... 3
IST 251  Operating Systems Concepts .................................................... 3  ITE 345e  Industrial Electronics .................................................... 2
IST 332  Assembly Language Programming ........................................... 3  MATH 239  Discrete Mathematics ................................................. 3
IST 410  Seminar in IST ................................................................. 1  Electives* .......................................................... 12

Total 36

*A student must choose electives in consultation with an advisor. Electives to be chosen from either Networking (IST 201, 301, 302, 402) or Programming (IST 233, 431, ART 229, and 3 additional hours of upper-division IST electives).

MINOR in Information Science and Technology

A student must complete the following program in addition to a major in another area and the General Studies requirements.

IST 133  Programming Concepts I ......................................................... 3  IST 251  Operating System Concepts .......................................... 3
IST 134  Programming Concepts II ......................................................... 3  IST 431  Computer Networks .......................................................... 3
IST 233  Data Structures ................................................................. 3  Electives from upper division IST .................................................. 6

Total 21

SUPPLEMENTAL ENDORSEMENT IN INFORMATION TECHNOLOGY (K-12): A student must complete the following program in addition to the General Studies and Professional Education requirements. Students must be seeking or have completed an elementary education program or secondary education subject or field endorsement in another area and the professional education requirements.

IST 131  Introduction to Programming .................................................. 3  IST 233  Data Structures ................................................................. 3
IST 133  Programming Concepts I ......................................................... 3  IST 251  Operating System Concepts .......................................... 3
IST 134  Programming Concepts II ........................................................ 3  IST 410  Seminar in IST ................................................................. 1
IST 440  Computer Science Curriculum ................................................ 2

Total 18
Cisco Certified Networking Professional (CCNP) Certification: Students wishing to pursue Cisco Certified Networking Professional (CCNP) Certification should take the following sequence of courses as a part of their baccalaureate study at Chadron State College: IST 201, Cisco Advanced Routing; IST 301, Cisco Advanced Remote Access; IST 302, Cisco Advanced Multilayer; and IST 402, Cisco Internetworking Troubleshooting.

COURSE DESCRIPTIONS

IST 110  Introduction to Information Science and Technology  Credit 3 hours
Introduction to information systems, including basic applications, programming, and technology.

IST 130  Introduction to Computer Applications  Credit 3 hours
Introduction to common practical uses of the personal computer including word processing, spreadsheet, data base, presentation, Internet, and electronic mail applications.

IST 131  Introduction to Programming  Credit 3 hours
Overview of program methodology and accepted programming practices. Emphasis on algorithms and data structures. Topics include files, records, pointers, and recursion.

IST 133  Programming Concepts I  Credit 3 hours
Overview of program methodology and accepted programming practices. Emphasis on algorithm development, top-down design, and data abstraction. Topics include files, arrays, records, pointers, and dynamic data.

IST 134  Programming Concepts II  Credit 3 hours
A continuation of the software engineering and data abstraction principles from IS 133. Emphasis on object-oriented design and data abstraction. Topics include C++ classes, pointers, dynamic data, linked structures, and recursion. Prerequisite: IST 133.

IST 201  Cisco Advanced Routing  Credit 3 hours
Theory and application of advanced routing protocols for internetworking, including BGP, EIGRP, OSPF, and IS-IS. This is one of the four course series that prepares a student for the Cisco Certified Network Professional (CCNP) certification. Prerequisite: CCNA (Cisco Certified Network Associate) certificate, or CCNA courses 1-4, or permission of instructor. This course is cross-listed as ITE 201.

IST 230  Introduction to Internet Applications  Credit 3 hours
An overview of the Internet and its resources, the World Wide Web and Hypertext Markup Language (HTML). Emphasis in site design, publication, and maintenance.

IST 233  Data Structures  Credit 3 hours
Overview of modern programming methods using abstract data types to represent and manipulate common data structures such as linked lists, trees, graphs, and heaps. Emphasis on data abstraction, data encapsulation, top-down design of algorithms and data structures in parallel, analysis of algorithms, and object-oriented design and programming. Prerequisites or co-requisites: IST 134 and MATH 239.

IST 235  Visual Languages  Credit 3 hours
This course introduces visual programming and design, addressing object-oriented technology. Contemporary object-oriented design and analysis models and methodology, and case studies of object-oriented systems. Prerequisite: IST 133 or equivalent.

IST 251  Operating System Concepts  Credit 3 hours
An introduction to operating system concepts, including both theory and application, employing DOS, windows, UNIX, and VMS operating systems.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 270</td>
<td>Topics in Information Science and Technology</td>
<td>1-3 hours</td>
</tr>
<tr>
<td></td>
<td>Special topics appropriate for lower division credit. May be repeated with different emphases for up to six hours of credit.</td>
<td></td>
</tr>
<tr>
<td>IST 301</td>
<td>Cisco Advanced Remote Access</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Design, operation and management of remote access networks, including WAN protocols such as ISDN, X.25, Frame-Relay and PPP on remote access networks. This is one of the four course series that prepares a student for the Cisco Certified Network Professional (CCNP) certification. Prerequisites: IST/ITE 201 or permission of instructor. This course is cross-listed as ITE 301.</td>
<td></td>
</tr>
<tr>
<td>IST 302</td>
<td>Cisco Advanced Multilayer Switching</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Design, operation, and management of large scalable and reliable local area networks based on multilayer switching. This is one of the four course series that prepares a student for the Cisco Certified Network Professional (CCNP) certification. Prerequisites: IST/ITE 301, or permission of instructor. This course is cross-listed as ITE 302.</td>
<td></td>
</tr>
<tr>
<td>IST 332</td>
<td>Assembly Language Programming</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Introduction to machine level and assembly language programming of microprocessors. Emphasis is on understanding computer systems and the organization, instruction set, addressing modes, and accepted programming practices for a microprocessors. Also examines connections between machine and assembly programming and between assembly programming and high-level language programming.</td>
<td></td>
</tr>
<tr>
<td>IST 338</td>
<td>Programming Languages</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>A survey of various programming languages, including similarities, differences, history, and run-time environments. Introduction to the formal specifications of each language using grammar and production rules. Prerequisite: IST 134.</td>
<td></td>
</tr>
<tr>
<td>IST 340</td>
<td>Software Design</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Explores structured as well as object-oriented analysis and design. Use of upper and lower CASE tools are employed in the analysis, design, and implementation of a team-oriented term project. Prerequisite: IST 134.</td>
<td></td>
</tr>
<tr>
<td>IST 390</td>
<td>Internship in Information Science and Technology</td>
<td>1-12 hours</td>
</tr>
<tr>
<td></td>
<td>Provides practical experience in Information Science and Technology. Open to upper division students with course credit in Information Science and Technology. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.</td>
<td></td>
</tr>
<tr>
<td>IST 400</td>
<td>Independent Study</td>
<td>1-3 hours</td>
</tr>
<tr>
<td></td>
<td>Individual problems in a selected area of the general field of Information Science and Technology. Course can be repeated for up to 6 credit hours total. Prerequisite: Permission of instructor and School Dean.</td>
<td></td>
</tr>
<tr>
<td>IST 402</td>
<td>Cisco Internetwork Troubleshooting</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Complex networking problem-solving involving integrated LAN and WAN environments that include advanced routing protocols, remote access, internetworking and large or complex LAN configurations. This course is the culminating course in preparation for the Cisco Certified Network Professional (CCNP) certification. Prerequisites: IST/ITE 201, 301, and 302. This course is cross-listed as ITE 402.</td>
<td></td>
</tr>
<tr>
<td>IST 410</td>
<td>Seminar in Information Science and Technology</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Reports and discussions of current topics of interest in the general field of Information Science and Technology. Prerequisites or co-requisites: IST 251 and appropriate background for the topics selected.</td>
<td></td>
</tr>
<tr>
<td>IST 430</td>
<td>Topics in Information Science and Technology</td>
<td>1-3 hours</td>
</tr>
<tr>
<td></td>
<td>Special topics in the general field of Information Science and Technology are studied in-depth. Course can be repeated for up to 6 credit hours total. Prerequisites: IST 133 and appropriate background for topics covered.</td>
<td></td>
</tr>
</tbody>
</table>
IST 431  Computer Networks  Credit 3 hours
In-depth study of modern computer networks, including analog and digital data and signals, asynchronous and synchronous transmission, circuit switching and packet switching, local and metropolitan area networks, networking, ISDN, and frame relay and cell relay. Prerequisite: IST 233.

IST 433  Internet Applications  Credit 3 hours
Overview of the World Wide Web including advanced Internet programming concepts and applications; design and publication of team oriented web projects. Prerequisites: IST 230 or equivalent.

IST 440  Computer Science Curriculum and History  Credit 2 hours
Historical perspectives, research trends, societal impact, ethics of computer science, and the organization and management of computer science instruction. Prerequisite: Fifty percent of endorsement completed or permission of instructor.

MATHEMATICS

The Degree of Bachelor of Science with a SUBJECT MAJOR IN MATHEMATICS: A student must complete the following program in addition to General Studies requirements and a major or minor in another area. Transfer students must complete at least one-third of the major at Chadron State College. An unduplicated course from upper division courses (excluding MATH 335) in mathematics will be taken to satisfy the General Studies mathematics requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 237</td>
<td>History and Foundations of Math</td>
<td>3</td>
</tr>
<tr>
<td>MATH 252</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 330</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 331</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 336</td>
<td>Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 337</td>
<td>Elementary Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 410</td>
<td>Mathematics Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MATH 429</td>
<td>Intro. to Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 434</td>
<td>Introductory Analysis</td>
<td>4</td>
</tr>
<tr>
<td>*Electives</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

*Electives will be selected from upper division courses (excluding MATH 335) in mathematics and information science and technology.

The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN MATHEMATICS (7-12): A student must complete the following program in addition to the General Studies and Professional Education requirements. Transfer students must complete one-third of the major at Chadron State College. MATH 239 will be taken to satisfy the General Studies Mathematics requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 237</td>
<td>History and Foundations of Math</td>
<td>3</td>
</tr>
<tr>
<td>MATH 252</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 330</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 331</td>
<td>Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 334</td>
<td>College Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 336</td>
<td>Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 337</td>
<td>Elementary Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 401</td>
<td>Adv. Math Education Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>MATH 410</td>
<td>Mathematics Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MATH 429</td>
<td>Intro. to Modern Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 434</td>
<td>Introductory Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>38</td>
</tr>
</tbody>
</table>

MATH 330 will serve as the course for the mathematical modeling requirement of this endorsement.
The Degree of Bachelor of Science in Education with a MIDDLE GRADE CONTENT AREA OF SPECIALIZATION IN MATHEMATICS (4-9): A student must complete the following program in addition to the General Studies, the Professional Education Field Endorsement in Middle Grades requirements, and one other Content Area of Specialization for Middle Grades.

MATH 135 Pre-Calculus Mathematics ................... 3
MATH 138 Applied Calculus ................................. 3
MATH 232 Applied Statistics OR
MATH 331 Probability and Statistics ..................... 3

- MATH 235 Math for the Elem. Teacher I ................. 3
- MATH 335 Math for the Elem. Teacher II .............. 3
- MATH 401 Adv. Math Education Perspectives .......... 3

Total 18

MINORS in Mathematics

Mathematics: A student must complete the following program in addition to a major in another area and the General Studies requirements:

MATH 151 Calculus I .......................... 5
EITHER
MATH 237 History and Foundations of Mathematics
AND
MATH 239 Discrete Mathematics
OR
MATH 252 Calculus II ......................... 5-6

MATH 331 Probability and Statistics ..................... 3
Upper Division Math Electives .......................... 7
Total 20-21

Applied Statistics: A student must complete the following program in addition to a major in another area and the General Studies requirements.

MATH 138 Applied Calculus OR
MATH 151 Calculus I .......................... 3-5
MATH 331 Probability & Statistics ..................... 3

MATH 337 Elem. Linear Algebra ......................... 3
MATH 338 Operations Research ......................... 3
MATH 433 Statistical Methods and Data Analysis .... 3
MATH 435 Sampling Techniques ......................... 3
Total 18-20

Mathematics Education (K-8): A student must complete the following program in addition to the General Studies and Professional Education, Elementary Education requirements.

MATH 137 Math Topics for Elementary Teachers .... 3
MATH 232 Applied Statistics OR
MATH 331 Probability and Statistics ..................... 3

MATH 235 Math for the Elem. Teacher I ................. 3
MATH 335 Math for the Elem. Teacher II .............. 3
Electives selected from list below ....................... 6-7
Total 18-19

Electives may be selected from MATH 134, 135, 138, 142, 237, 239, or any unduplicated upper division course in Mathematics or Information Science and Technology. Either MATH 232 or 331 will be used to satisfy the requirements of this minor; students may not apply both courses to the total minor requirements.

COURSE DESCRIPTIONS

MATH 132 Applied Mathematics

Mathematics with problem solving as the focus. Mathematical functions, measurement, the metric system, ratios, proportion, direct and inverse variation, graphing, and applications to technology. History of mathematics. Credit 3 hours

MATH 133 Introduction to Mathematics

Everyday mathematics with practical applications. Relationship of mathematics to the larger encompassing structure of mathematics. History of mathematics. Credit 3 hours

MATH 134 Plane Trigonometry

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. Prerequisite: two years high school algebra or equivalent. Credit 3 hours
MATH 135  Pre-Calculus Mathematics  Credit 3 hours
Algebraic analysis of geometric figures. Functions include polynomial, rational, exponential, logarithmic, and trigonometric. Prerequisite: three years of high school mathematics or equivalent.

MATH 137  Mathematics Topics for Elementary Teachers  Credit 3 hours
Algebra operations, properties, functions and systems of equations and inequalities. Discrete mathematics topics, including apportionment, elections, networks, and elementary matrix operations. History of mathematics.

MATH 138  Applied Calculus  Credit 3 hours
Differential and integral calculus with applications from business, economics, life sciences, physical sciences, and social sciences. Prerequisite: Two years of high school algebra.

MATH 142  College Algebra  Credit 4 hours
Properties of real and complex numbers, equations and inequalities, functions and graphing, analytic geometry, exponential and logarithmic functions, and systems of equations.

MATH 151  Calculus I  Credit 5 hours
Traditional approach to limits, continuity, differential calculus with applications, and an introduction to integral calculus. Prerequisite: MATH 135 or equivalent.

MATH 232  Applied Statistics  Credit 3 hours
Descriptive statistics and statistical inference, with applications from business, economics, life social sciences. Prerequisite: one year of high school algebra or equivalent. Cannot be used by Mathematics majors in their minor.

MATH 235  Mathematics for the Elementary Teacher I  Credit 3 hours
Structure of the real number system and its subsystems, with emphasis on basic concepts and computational techniques. Elementary concepts of sets, numeration systems, elementary number theory, modular arithmetic, and calculators and computers as teaching tools. Does not apply toward General Studies mathematics requirement.

MATH 237  History and Foundations of Mathematics  Credit 3 hours
Logic, proof, relations, sets, functions, and history of mathematics. Prerequisite: two years of high school mathematics or equivalent.

MATH 239  Discrete Mathematics  Credit 3 hours
Graph theory, matrices, recurrence relations, linear programming, difference equations, combinatorics, Boolean algebra, and trees. Applications included. Prerequisite: two years high school algebra.

MATH 252  Calculus II  Credit 5 hours
Integral calculus with applications of differentiation and integration. Sequences and series. Prerequisite: MATH 151 or equivalent.

MATH 270  Topics in Mathematics  Credit 1-3 hours
Special topics appropriate for lower division credit. May be repeated with different emphases for up to six hours of credit.

MATH 330  Differential Equations  Credit 3 hours

MATH 331  Probability and Statistics  Credit 3 hours
Descriptive statistics, exploratory data analysis, probability, random variables and probability distributions, inferential statistics, point and interval estimation, hypothesis testing, and correlation and regression. Applications from business, education, and science. Prerequisite: MATH 151 or MATH 138.
MATH 334 College Geometry  Credit 3 hours
Advanced plane geometry. Similar and congruent figures, logic, and constructions. Projective and other fields of geometry, both Euclidean and non-Euclidean. Prerequisite: MATH 237 or permission of instructor.

MATH 335 Mathematics for the Elementary Teacher II  Credit 3 hours
Geometry, probability, and statistics for elementary and middle grade levels. Prerequisite: MATH 235 or equivalent. Does not apply toward General Studies mathematics requirement.

MATH 336 Calculus III  Credit 3 hours
Multivariate calculus, infinite series, introduction to differential equations, line and surface integrals, and vector calculus. Prerequisite: MATH 252 or equivalent.

MATH 337 Elementary Linear Algebra  Credit 3 hours
Two-dimensional vector spaces, linear transformations of the plane, orthogonality, and inner products. Vector space of n-tuples, subspaces, linear dependence, dimension and basis, matrices, and determinants. Prerequisite: MATH 135, 138, 142, or equivalent.

MATH 338 Operations Research  Credit 3 hours
Game theory, linear programming, simplex method, duality, transportation and assignment problems, introduction to dynamic programming, and queuing theory. Applications of business and industrial perspectives. Prerequisites: MATH 138 or 151, and MATH 232 or 331.

MATH 339 Theory of Numbers  Credit 3 hours
Introduction to the ring of integers, Euclidean rings, divisibility, primes, congruences, finite algebras, Diophantine equations, and numerical functions. Prerequisites: MATH 142 and MATH 237 or permission of instructor.

MATH 390 Internship in Mathematics  Credit 1-12 hours
Provides practical experience as a mathematician in government, business or industry. Open to upper division students major in the area of mathematics. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

MATH 400 Independent Study or Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of Instructor and Dean is required.

MATH 401 Advanced Mathematics Education Perspectives  Credit 3 hours
A capstone course for students in the Mathematics 7-12 Field Endorsement and the Middle Grades (4-9) Mathematics Endorsement. Advanced perspectives addressing the teaching of algebra, pre-calculus, discrete mathematics for teachers, and introductory number theory are discussed. Emphasis is on the clear and precise explanations of mathematical ideas and the mathematical connections that are explored at these levels. Prerequisite: Permission of Instructor.

MATH 410 Mathematics Seminar  Credit 1 hour
Reports and discussions of topics of current interest in mathematics.

MATH 429 Introduction to Modern Algebra  Credit 3 hours
An axiomatic approach to the real number system and group theory. Homomorphism, isomorphisms, rings, introduction to integral domains, fields and selected topics in abstract algebra. Prerequisite: MATH 237 or permission of Instructor.

MATH 430 Topics in Mathematics  Credit 1-3 hours
Topics to meet the needs of students who have completed the regular course of study. Can be repeated with different emphasis for a maximum of 6 hours credit.
MATH 433  Statistical Methods and Data Analysis  Credit 3 hours

Statistical research methods and modeling of statistical problems. Chi-square tests, analysis of variance, one-way and multi-factorial designs, multiple regression and correlation. Nonparametric methods. Use of calculators and personal-computer software. Prerequisite: MATH 232 or equivalent.

MATH 434  Introductory Analysis  Credit 3 hours

Structure of the real number line. Completeness, compactness, connectedness. Rigorous treatment of limits, sequences, series, convergence, functions and continuity, derivatives, and selected topics on measure and integration theory. Prerequisites: MATH 237 and 252, or permission of instructor.

MATH 435  Sampling Techniques  Credit 3 hours

Statistical survey methods, sampling techniques, point and interval estimation of population parameters, population size determination, and communication of sample survey results. Applications from business, the natural sciences, and the social sciences. Prerequisite: MATH 232 or equivalent.

MATH 437  Modern Algebra  Credit 3 hours

Axiomatic approach to groups, rings, integral domains, polynomials, fields, selected topics in abstract algebra, and an introduction to vector spaces and algebraic coding theory. MATH 429 or equivalent.

MATH 438  Numerical Analysis  Credit 3 hours

Numerical modeling of phenomena using interpolation and approximation, systems of linear equations, integration, and numerical solutions of differential equations. Prerequisite: MATH 252 or permission of instructor.

MATH 440  Mathematics Education Standards  Credit 3 hours

An integrated content/pedagogy course on mathematics teaching, assessment, and curriculum standards, based on major content areas of the K-12 curriculum. Prerequisite: Fifty percent of endorsement completed.

DEPARTMENT OF PHYSICAL AND LIFE SCIENCES

Student Learning Outcomes

Students who complete a program of study from the Departmental of Physical and Life Sciences:

- Will be able to consistently apply logical reasoning and critical thinking, not constrained by convention or prejudice.
- Will be fluent in the foundations of knowledge needed for tomorrow’s scientists and teachers of science.
- Will have acquired, through knowledge and study, a sense of appreciation of our world.
- Will possess the skills of inquiry and study needed to understand the true nature of the universe.

LIFE SCIENCES

The Degree of Bachelor of Science with a COMPREHENSIVE MAJOR IN BIOLOGY: A student must complete the core requirements, an option, and the General Studies requirements.

Core Requirements

<table>
<thead>
<tr>
<th>BIOL 131</th>
<th>Fundamentals of Cellular Biology ........ 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 138 &amp; 138L General Botany &amp; Lab .............. 3</td>
<td></td>
</tr>
<tr>
<td>BIOL 139 &amp; 139L General Zoology &amp; Lab .............. 3</td>
<td></td>
</tr>
<tr>
<td>BIOL 231 &amp; 231L Anatomy &amp; Physiology &amp; Lab OR</td>
<td></td>
</tr>
<tr>
<td>BIOL 340 &amp; 340L Human Anatomy &amp; Lab .............. 4</td>
<td></td>
</tr>
<tr>
<td>BIOL 332</td>
<td>Genetics .............................................. 3</td>
</tr>
<tr>
<td>BIOL 410</td>
<td>Biology Seminar ..................................... 1</td>
</tr>
<tr>
<td>*CHEM 140 &amp; 140L General Chemistry &amp; Lab ........ 4</td>
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<tr>
<td>**CHEM 231 &amp; 231L Intro to Organic Chem &amp; Lab .......... 4</td>
<td></td>
</tr>
<tr>
<td>CHEM 435 &amp; 435L Biochemistry &amp; Lab .............. 4</td>
<td></td>
</tr>
</tbody>
</table>

Core Total 29

*CHEM 131/131L and CHEM 132/132L may be substituted. See Biology advisor.

**CHEM 233/233L and CHEM 234/234L may be substituted. See Biology advisor.
### Environmental Resource Management Option 1

<table>
<thead>
<tr>
<th>Core Requirements ........................................</th>
<th>29</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 229 &amp; 229L Vertebrate Zoology &amp; Lab ..........</td>
<td>2</td>
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<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>BIOL 328 &amp; 328L Invertebrate Zoology &amp; Lab ......</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 336 &amp; 336L General Ecology &amp; Lab................</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 337 Environmental Management ...................</td>
<td>3</td>
</tr>
</tbody>
</table>

**BIOL 341 & 341L Microbiology & Lab .................. 4**

**BIOL 425 & 425L Plant Morphology & Lab ............ 3**

**BIOL 431 & 431L Entomology & Lab .................. 3**

**BIOL 438 & 438L Taxonomy of Plants & Lab .......... 3**

**BIOL 444 & 444L Limnology & Lab .................... 3**

**GEOS 231 & 231L Physical Geology & Lab ............. 4**

**Total** 57

### General Biology Option

<table>
<thead>
<tr>
<th>Core Requirements ........................................</th>
<th>29</th>
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<tbody>
<tr>
<td>BIOL 229 &amp; 229L Vertebrate Zoology &amp; Lab ..........</td>
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</tr>
<tr>
<td>BIOL 311 Fact, Fiction and Hypotheses .......... ...</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 328 &amp; 328L Invertebrate Zoology &amp; Lab ......</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 336 &amp; 336L General Ecology &amp; Lab................</td>
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</tr>
</tbody>
</table>

**BIOL 341 & 341L Microbiology & Lab .................. 4**

**BIOL 425 & 425L Plant Morphology & Lab ............ 3**

**BIOL 432 & 432L Developmental Biology & Lab ...... 3**

**BIOL 449 & 449L Molecular Biology & Lab ............ 4**

**Upper Division Biology Electives .................... 6**

**Total** 57

### Human Biology Option 2

<table>
<thead>
<tr>
<th>Core Requirements ........................................</th>
<th>29</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 311 Fact, Fiction and Hypotheses .......... ...</td>
<td>1</td>
</tr>
</tbody>
</table>
| BIOL 341 & 341L Microbiology & Lab .................. 4**
| BIOL 342 & 342L Human Physiology & Lab .......... ... | 4**
| BIOL 430 Immunology .................................. | 1**
| OR                                                  |    |
| BIOL 465 Neuroscience .................................. | 3**
| BIOL 432 & 432L Developmental Biol & Lab ........... | 3**

**BIOL 433 & 433L Anal. of Human Move. & Lab ....... 3**

**BIOL 456 & 456L Path Micro & Parasit & Lab .......... 3**

**BIOL 449 & 449L Molecular Biol of Cell & Lab ...... 4**

**PSYC 131 General Psychology ......................... 3**

**PSYC 334 Developmental Psychology ................... 3**

**OR**

**PSYC 430 Intro to Physiological Psychology .......... 3**

**Total** 57

### Molecular Biology Option 3

<table>
<thead>
<tr>
<th>Core Requirements ........................................</th>
<th>29</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 311 Fact, Fiction &amp; Hypotheses ..................</td>
<td>1</td>
</tr>
</tbody>
</table>
| BIOL 341 & 341L Microbiology & Lab .................. 4**
| PHYS 151 & 151L College Physics I & Lab ............ | 5**
| PHYS 152 & 152L College Physics II & Lab .......... | 5**
| BIOL 430 Immunology .................................. | 3**
| BIOL 432 & 432L Developmental Biol & Lab .......... | 3**
| BIOL 449 & 449L Molecular Biology & Lab ............ | 4**

**BIOL 412 Biotechnology ......................... 3**

**BIOL 430 Immunology ......................... 3**

**BIOL 432 & 432L Developmental Biol & Lab .......... 3**

**BIOL 449 & 449L Molecular Biology & Lab ............ 4**

**Total** 57

Students intending to pursue a graduate degree emphasizing research are encouraged to strengthen their chemistry, physics, and mathematics proficiencies through additional coursework.

1 Students entering the Environmental Resource Management field are encouraged to pursue a minor in Applied Statistics, Chemistry, Geoscience, Water Resource Management, or Wildlife Biology. IST 130 or equivalent and MATH 232 and 435 are recommended, as well as several of the following courses: PS 432, CA 233 or 334, BIOL 311, GEOS 321 and 322.

2 Students intending to pursue professional training in Medicine, Physical Therapy, and Physician Assistant programs should include BIOL 465, Neuroscience (3 credits) in their curriculum. SPAN 270, Spanish for the Health Professions (3 credits), or one year of Spanish language is highly recommended. Please consult advisor.

3 Students enrolled in this option are encouraged to substitute CHEM 131/131L and CHEM 132/132L for CHEM 140/140L, and substitute CHEM 233/233L and CHEM 234/234L for CHEM 231. MATH 232 is highly recommended.
The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN BIOLOGY (7-12): A student must complete the following program in addition to the Professional Education and General Studies Requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 131</td>
<td>Fundamentals of Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 138 &amp; 138L</td>
<td>General Botany &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 139 &amp; 139L</td>
<td>General Zoology &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 231 &amp; 231L</td>
<td>Anat. &amp; Physiology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 332</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 336 &amp; 336L</td>
<td>General Ecology &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 341 &amp; 341L</td>
<td>Microbiology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 410</td>
<td>Biology Seminar</td>
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<tr>
<td>BIOL 412</td>
<td>Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>#CHEM 140 &amp; 140L</td>
<td>General Chemistry &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>##CHEM 231 &amp; 231L</td>
<td>Intro to Org. Chem &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 231 &amp; 231L</td>
<td>Physical Geology &amp; Lab</td>
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<tr>
<td>PHYS 151 &amp; 151L</td>
<td>College Physics I &amp; Lab</td>
<td>5</td>
</tr>
</tbody>
</table>

Total 44

#CHEM 131/131L and CHEM 132/132L may be substituted. See Biology advisor.
##CHEM 233/233L and CHEM 234/234L may be substituted. See Biology advisor.

The Degree of Bachelor of Science with a COMPREHENSIVE MAJOR IN HEALTH SCIENCES: This degree provides health professionals an opportunity to earn a bachelor’s degree. This degree is not intended to replace a bachelor’s degree in a specific health profession; therefore, consultation with the Registrar and the Health Professions Office at Chadron State College regarding the appropriateness of this degree for each student is important.

To be eligible for this degree, each student must have successfully completed one or more of the following in an appropriately accredited professional program:

1. A twelve month professional program in Clinical Laboratory Sciences (Medical Technology).
2. An eighteen month or longer professional program in Radiography, Nuclear Medicine Technology, Diagnostic Medical Sonography, Radiation Therapy, Nursing, Occupational Therapy Assistant, Physical Therapy Assistant, Mortuary Science, or Respiratory Therapy.
3. One year of a professional program in Human Medicine, Veterinary Medicine, Dentistry, Physical Therapy, Optometry, Occupational Therapy, Physician Assistant, Osteopathic Medicine, Chiropractic Medicine, Podiatric Medicine, or a professional program in another of the health sciences that requires three or more years of study.

A student with eighteen months or more of professional education in a field not listed above may earn this degree by requesting specific permission and approval of the Registrar and the Health Professions Office. Chadron State College will determine the appropriate accreditation for each professional program listed by each applicant.

The professional program(s) attended must require a high school diploma or equivalent as an entrance requirement and have at least 25% of the training program as academic work in the classroom. The remaining 75% can be clinical training. The student is responsible for proving these conditions exist.

To earn this degree the student must complete at least 30 semester hours of Chadron State College credit before or after the professional program of studies, the comprehensive major as subsequently described, 45 upper division hours, 125 semester hours of college credit, and the General Studies requirements as subsequently listed. Should the professional program component not total 35 semester hours the student must earn additional Chadron State College credit at the upper division level to meet the 125 total credit hour minimum.

Admission requirements to a professional program and thus graduation requirements may change between the date a catalog is printed and the date a student may expect to be graduated. Therefore, each student must consult with the Health Professions Office/Advisor and the Registrar’s Office at CSC as well as the professional school(s) of their choice at least once each calendar year for the latest requirements.

Each student must complete the core requirements, one option, the listed General Studies, and elective courses.

### Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 131</td>
<td>Fundamentals of Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 139 &amp; 139L</td>
<td>General Zoology &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 231 &amp; 231L</td>
<td>Anat. &amp; Physiology &amp; Lab</td>
<td>4</td>
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<tr>
<td>BIOL 340 &amp; 340L</td>
<td>Human Anatomy &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 341 &amp; 341L</td>
<td>Microbiology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 131 &amp; 131L</td>
<td>College Chemistry I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 132 &amp; 132L</td>
<td>College Chemistry II &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 231 &amp; 231L</td>
<td>Intro to Organic Chem &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 435 &amp; 435L</td>
<td>Biochemistry &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 151 &amp; 151L</td>
<td>College Physics I &amp; Lab</td>
<td>5</td>
</tr>
</tbody>
</table>

Core Total 31-36
1. Pre-dental students must replace the courses listed with BIOL 342/342L.
2. Pre-physical therapy students must replace the courses listed with CHEM 140/140L.
3. Pre-dental students must replace the courses listed with CHEM 233/233L and CHEM 234/234L.
4. Pre-occupational therapy students may substitute FCS 337, Nutrition, for this course.
5. Pre-clinical laboratory science students must replace the courses listed with BIOL 412/512.

Clinical Laboratory Science (Medical Technology) Option

Students must complete the core requirements; the courses listed below, and NAACLS approved program in Medical Technology.

Core Requirements .................................................. 34  
BIOL 110 Introduction to Medical Tech .................. 1  
BIOL 311 Fact, Fiction, and Hypotheses .................. 1  
BIOL 323 & 323L Basic Hematology & Lab ............. 2  
BIOL 332 Genetics ................................................. 3  
BIOL 410 Biology Seminar ..................................... 1  
BIOL 430 Immunology ........................................... 3  
BIOL 456 & 456L Pathogenic Microbiology & Lab ... 3  
CHEM 332 & 332L Analytical Instrument & Lab ...... 3  
Total ................................................................. 51

**Students proficient in writing are encouraged to register for advanced composition courses including ENG 240, 337, and 339.

General Electives

Nine hours of elective courses must be selected from any area of the Chadron State College catalog with advisor consultation.

Minimum hours at CSC 90  
Professional Program CLS (Medical Technology) -  
Upper Division Hours 35  
Minimum total 125

Chadron State College is affiliated with the Clinical Laboratory Science (Medical Technology) Program at Rapid City Regional Hospital. Chadron State College’s preprofessional program meets the requirements of many, if not all, NAACLS accredited professional schools in the United States. The Clinical Laboratory Sciences curriculum for Rapid City Regional Hospital follows the course descriptions for Biology. Successful completion of course work is required, but completion of the registry exam is not required for the degree.

Pre-Chiropractic Medicine Option

Students must complete the core requirements as well as the courses listed below; and one year of an appropriately accredited professional program in Chiropractic Medicine.

Core Requirements .................................................. 36  
BIOL 311 Fact, Fiction, & Hypothesis .................. 1  
BIOL 342 & 342L Human Physiology & Lab .......... 4  
BIOL 410 Biology Seminar ..................................... 1  
PHYS 152 & 152L College Physics II & Lab .......... 5  
Upper Division Program Electives* ..................... 6  
Total ................................................................. 53

*Upper division program electives must be selected from courses in Science, Mathematics, Information Science and Technology, Business Administration, Business Management, Psychology, English, and/or Speech, with advisor consultation.
## General Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>C A 125</td>
<td>Fundamentals of Oral Comm............</td>
<td>3</td>
</tr>
<tr>
<td>ENG 137</td>
<td>Technical Writing I** ................</td>
<td>3</td>
</tr>
<tr>
<td>ENG 233</td>
<td>Elements of Literature ..............</td>
<td>3</td>
</tr>
<tr>
<td>HUM 231</td>
<td>Patterns in the Humanities ..........</td>
<td>3</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Applied Statistics ..................</td>
<td>3</td>
</tr>
</tbody>
</table>

**| PHIL 231| Introduction to Philosophy ..........| 3       |
**| PSYC 131| General Psychology ..................| 3       |
**| PSYC 334| Developmental Psychology ............| 3       |
**| SOC 231| Introduction to Sociology ...........| 3       |

Total 30

**Students proficient in writing are encouraged to register for advanced composition courses, including ENG 240, 337, and 339.

## General Electives

Seven hours of elective courses must be selected from any area of the Chadron State College catalog with advisor consultation.

Minimum hours at CSC .............................................. 90
One year of a professional program in
Chiropractic Medicine - Upper Division Hours .... 35
Minimum total ............................................... 125

## Pre-Dentistry Option

Students must complete the core requirements as well as the courses listed below; and one year of an appropriately accredited professional program in dentistry.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 311</td>
<td>Fact, Fiction, and Hypothesis ......</td>
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</tr>
<tr>
<td>BIOL 410</td>
<td>Biology Seminar .....................</td>
<td>1</td>
</tr>
</tbody>
</table>

**| BIOL 443| Rural Health Issues ................| 1       |
**| PHYS 152 & 152L College Physics II & Lab | 5       |
**| Upper Division Program Electives* ...........| 10      |

Total 54

*Upper division program electives must be selected from courses in Science, Mathematics, Information Science and Technology, Business Administration, Business Management, Psychology, English, and/or Speech, with advisor consultation. The UNMC College of Dentistry recommends selection of electives in areas of communications, psychology, and business.

## General Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>C A 125</td>
<td>Fundamentals of Oral Comm............</td>
<td>3</td>
</tr>
<tr>
<td>ENG 135</td>
<td>Composition I** .....................</td>
<td>3</td>
</tr>
<tr>
<td>ENG 137</td>
<td>Technical Writing I** ...............</td>
<td>3</td>
</tr>
<tr>
<td>ENG 233</td>
<td>Elements of Literature ..............</td>
<td>3</td>
</tr>
<tr>
<td>HUM 231</td>
<td>Patterns in the Humanities ..........</td>
<td>3</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Applied Statistics ..................</td>
<td>3</td>
</tr>
</tbody>
</table>

**| PHIL 231| Introduction to Philosophy ..........| 3       |
**| PSYC 131| General Psychology ..................| 3       |
**| PSYC 334| Developmental Psychology ............| 3       |
**| SOC 231| Introduction to Sociology ...........| 3       |

Total 30

**Students proficient in writing are encouraged to register for advanced composition courses, including ENG 240, 337, and 339.

## General Electives

Six hours of elective courses must be selected from any area of the Chadron State College catalog with advisor consultation.

Minimum hours at CSC .............................................. 90
One year of a professional program in Dentistry -
Upper Division Hours ........................................ 35
Minimum total ............................................... 125
Pre-Occupational Therapy Option

Students must complete the core requirements; the courses listed below; and one year of an appropriately accredited professional program in Occupational Therapy.

<table>
<thead>
<tr>
<th>Core Requirements</th>
<th>35-36</th>
<th>BIOL 410</th>
<th>Biology Seminar</th>
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<tbody>
<tr>
<td>ART 228</td>
<td>Ceramics I</td>
<td>3</td>
<td>BIOL 433 &amp; 433L Analysis of Human Mvt &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 311</td>
<td>Fact, Fiction and Hypotheses</td>
<td>1</td>
<td>FCS 320</td>
<td>Aging and Death</td>
</tr>
<tr>
<td>BIOL 342 &amp; 342L Human Physiology &amp; Lab</td>
<td>4</td>
<td>SW 231</td>
<td>Introduction to Social Work</td>
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<tr>
<td>Total</td>
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<td></td>
<td>54-55</td>
</tr>
</tbody>
</table>

**General Studies**

| C A 125      | Fundamentals of Oral Comm     | 3 | HUM 335 | Comparative Religions               | 3 |
| ENG 135      | Composition I**               | 3 | MATH 232 | Applied Statistics                   | 3 |
| ENG 137      | Technical Writing I**         | 3 | PHIL 231 | Introduction to Philosophy           | 3 |
| ENG 233      | Elements of Literature        | 3 | PSYC 131 | General Psychology                   | 3 |
| GEOG 300     | World Cultures                | 3 | PSYC 334 | Developmental Psychology             | 3 |
| HIST 233     | Western Civilization I        | 3 | SOC 230 | Society: Structure & Process         | 3 |
| HUM 231      | Patterns in the Humanities    | 3 | SOC 231 | Introduction to Sociology            | 3 |
| Total                                                 |       |          |                                     | 42 |

**Students proficient in writing are encouraged to register for advanced composition courses, including ENG 240, 337, and 339.**

Minimum hours at CSC                        96
One year of a professional program in
Occupational Therapy - Upper Division Hours        34
Minimum total                                   125

Pre-Optometry Option

Students must complete the core requirements; the courses listed below; and one year of an appropriately accredited professional program in Optometry.

<table>
<thead>
<tr>
<th>Core Requirements</th>
<th>36</th>
<th>MATH 151</th>
<th>Calculus I</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 311</td>
<td>Fact, Fiction and Hypotheses</td>
<td>1</td>
<td>MATH 232</td>
<td>Applied Statistics</td>
</tr>
<tr>
<td>BIOL 342 &amp; 342L Human Physiology &amp; Lab</td>
<td>4</td>
<td>PHYS 152 &amp; 152L College Physics II &amp; Lab</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>BIOL 410</td>
<td>Biology Seminar</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>55</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

**Students proficient in writing are encouraged to register for advanced composition courses, including ENG 240, 337, and 339.**

General Electives

Five hours of elective courses must be selected from any area of the Chadron State College catalog with advisor consultation.

Minimum hours at CSC                        90
One year of a professional program in Optometry -
Upper Division Hours                      35
Minimum total                                   125
### Pre-Physical Therapy Option

Students earning this degree from Chadron State College must complete the courses listed below and one year of an appropriately accredited professional program in physical therapy.

<table>
<thead>
<tr>
<th>Core Requirements</th>
<th>31</th>
<th>BIOL 410</th>
<th>Biology Seminar</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 311</td>
<td>Fact, Fiction, and Hypotheses</td>
<td>1</td>
<td>BIOL 433 &amp; 433L Analysis of Human Move &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 332</td>
<td>Genetics</td>
<td>3</td>
<td>BIOL 443</td>
<td>Rural Health Issues</td>
</tr>
<tr>
<td>BIOL 342 &amp; 342L Human Physiology &amp; Lab</td>
<td>4</td>
<td>PHYS 152 &amp; 152L College Physics II &amp; Lab</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>PSYC 333</td>
<td>Abnormal Psychology</td>
<td>3</td>
<td></td>
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</tr>
</tbody>
</table>

**Total** 52

*Students are encouraged to enroll in the math courses for which they have the background, including MATH 134, 135, 138, 142, or 151.

**Students proficient in writing are encouraged to register for advanced composition courses, including ENG 240, 337, and 339.

### General Electives

Eight hours of elective courses must be selected from any area of the Chadron State College catalog with advisor consultation.

Minimum hours at CSC ........................................ 90
One year of a Professional Program in Physical Therapy - Upper Division Hours .............. 35
Minimum total ........................................ 125

### Pre-Podiatric Medicine Option

Students must complete the core requirements as well as the courses listed below; and one year of an appropriately accredited professional program in Podiatric Medicine.

<table>
<thead>
<tr>
<th>Core Requirements</th>
<th>36</th>
<th>PHYS 152 &amp; 152L College Physics II &amp; Lab</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 311</td>
<td>Fact, Fiction, and Hypothesis</td>
<td>1</td>
<td>Upper Division Program Electives*</td>
</tr>
<tr>
<td>BIOL 410</td>
<td>Biology Seminar</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Total** 53

*Upper division program electives must be selected from courses in Science, Mathematics, Information Science and Technology, Business Administration, Business Management, Psychology, English, and/or Speech, with advisor consultation.

### General Studies

| ENG 135 | Composition I** | 3 | PHIL 231 | Introduction to Philosophy | 3 |
| ENG 137 | Technical Writing I** | 3 | PSYC 131 | General Psychology | 3 |
| ENG 233 | Elements of Literature | 3 | PSYC 334 | Developmental Psychology | 3 |
| HUM 231 | Patterns in the Humanities | 3 | SOC 231 | Introduction to Sociology | 3 |

**Total** 30

**Students proficient in writing are encouraged to register for advanced composition courses, including ENG 240, 337, and 339.
General Electives

Seven hours of elective courses must be selected from any area of the Chadron State College catalog with advisor consultation.

Minimum hours at CSC ............................................. 90
One year of a professional program
Podiatry Medicine - Upper Division Hours .......... 35
Minimum total ............................................. 125

Pre-Veterinary Medicine Option

Students interested in earning this degree from Chadron State College must complete the core requirements; the courses listed below and one year of an accredited professional program in veterinary medicine.

Core Requirements ............................................. 36
AGRI 132 Animal Science .................................. 4
AGRI 234 & 234L Prin of Animal Nutrition & Lab ...... 3
AGRI 341 & 341L Phys of Domestic Anim & Lab ...... 4
AGRI 410 Agriculture Seminar ......................... 1
AGRI 446 Animal Breeding and Reproduction ...... 3
BIOL 332 Genetics ........................................... 3
BIOL 410 Seminar ............................................ 1
BIOL 432 & 432L Developmental Biology & Lab ...... 3

Total 58

Students proficient in writing are encouraged to register for advanced composition courses, including ENG 240, 337, and 339.

General Studies

BIOI 229 & 229L Vertebrate Zoology & Lab .......... 2
C A 125 Fundamentals of Oral Comm ................. 3
ENG 135 Composition I** ................................. 3
ENG 137 Technical Writing** ........................... 3
HUM 231 Patterns in the Humanities ................ 3
MATH 232 Applied Statistics .......................... 3
PHYS 152 & 152L College Physics II & Lab ........... 5
General Studies Electives: 12 hours to fulfill
General Studies requirements in Government,
History, and Global & Social Awareness ............. 12

Total 34

Minimum hours at CSC ............................................. 92
One year at an accredited Veterinary School .......... 33
Minimum total ............................................. 125

General Health Care Option

This option is available only to those students pursuing a career choice for which an option is not described. The elective courses for this option will be selected by the student and the student’s advisor at Chadron State College and approved by the Registrar and the Dean of the School of Mathematics and Science. The courses selected for this option must total 21 semester credit hours. The courses selected will typically be in the science and mathematics areas but can be from other disciplines if it best serves the needs of the student.

Core Requirements ............................................. 36
BIOL 311 Fact, Fiction and Hypotheses .............. 1
BIOL 410 Biology Seminar .............................. 1
Program Electives (See above paragraph) ............ 16

Total 54

Students proficient in writing are encouraged to register for advanced composition courses, including ENG 240, 337, and 339.

General Studies

C A 125 Fundamentals of Oral Comm ................. 3
ENG 135 Composition I** ................................. 3
ENG 137 Technical Writing I** ........................... 3
ENG 233 Elements of Literature ....................... 3
HUM 231 Patterns in the Humanities ................ 3
MATH 232 Applied Statistics .......................... 3
PHIL 231 Introduction to Philosophy ................. 3
PSYC 131 General Psychology ........................ 3
SOC 231 Introduction to Sociology ................... 3
Humanities, History or Government elective ....... 3

Total 30

Students proficient in writing are encouraged to register for advanced composition courses, including ENG 240, 337, and 339.
General Electives

Six hours of elective courses must be selected from any area of the Chadron State College catalog with advisor consultation.

Minimum hours at CSC ........................................ 90
Minimum hours from professional program –
Upper Division Hours ........................................ 35
Minimum total .................................................. 125

MINORS in Life Sciences

**Biology:** A student must complete the program listed below in addition to the General Studies Requirements and a major in another discipline.

BIOL 131 Fundamentals of Cellular Biology ........ 3
BIOL 138 & 138L General Botany & Lab ............... 3
BIOL 139 & 139L General Zoology & Lab ............... 3
BIOL 332 Genetics ............................................. 3
Upper Division Biology Electives* ....................... 9
Total .......................................................... 21

*Students selecting this minor are strongly encouraged to seek counsel with biology faculty to determine appropriate electives.

**Plant Sciences:** A student must complete the program below in addition to the General Studies requirements and a major in another discipline.

BIOL 138 & 138L General Botany & Lab ............... 3
BIOL 336 & 336L General Ecology & Lab ............... 3
BIOL 438 & 438L Taxonomy of Plants & Lab .......... 3
BIOL 439 & 439L Plant Physiology & Lab .............. 3
AGRI 245 Principles of Soil Science .................... 3
AGRI 339 & 339L Range Plant Identification & Lab ... 3
GEOS 321 Introduction to GIS ........................... 2
GEOS 322 Introduction to GIS ........................... 2
Total .......................................................... 21

**Wildlife Management:** A student must complete the program below in addition to the General Studies requirements and a major.

BIOL 235 & 235L Intro to Wildlife Mgmt & Lab ........ 3
BIOL 325 & 325L Rangeland Wildlife Mgmt & Lab ... 3
BIOL 401 Ornithology ......................................... 3
BIOL 426 Wildlife Research & Mgmt Tech ............ 3
BIOL 435 Mammalogy ....................................... 3
BIOL 437 Wildlife Mgmt Practicum .................... 3
Electives ...................................................... 3
Total .......................................................... 21

To satisfy wildlife elective and to enhance employment potential students are recommended to take courses from the following: AGRI 245/245L, 339/339L, 343/343L, 345, BIOL 427/543, GEOS 321, 322, MATH 232.

**Academic Certificates in Life Sciences**

**Plant Sciences:** A student may be awarded a Certificate in Plant Sciences upon successful completion of the Plant Sciences minor program of study listed above.

**Wildlife Management:** A student may be awarded a Certificate in Wildlife Management upon completion of the Wildlife Management minor program of study listed above.
RURAL HEALTH OPPORTUNITIES PROGRAM

The Rural Health Opportunities Program (RHOP) is a cooperative program between Chadron State College (CSC) and the University of Nebraska Medical Center (UNMC). The purpose of the program is to recruit and educate traditional and non-traditional students from rural Nebraska who will return to practice in the rural areas of the state. This program represents a commitment and dedication to the education of Nebraskans and to provide quality health care to the citizens of the state. RHOP currently has options in medicine, dentistry, dental hygiene, pharmacy, medical technology, physical therapy, nursing, physician assistant, and radiography. Admission into each option of the program is competitive. Each participant accepted into the program receives automatic admission into the designated professional program upon successful completion of the appropriate curriculum at CSC.

For information, application forms, admissions criteria, criteria for evaluation of progress in the program, and programs of study please contact the Health Professions Office at CSC.

Options

DENTISTRY: Includes three years of study at CSC followed by four years of professional education at the College of Dentistry at UNMC. The student may receive a Bachelor of Science degree in the Health Sciences from CSC upon successful completion of the first year of dental school.

DENTAL HYGIENE: Includes two years of coursework at CSC and two years of professional study at the Program in Dental Hygiene, College of Dentistry, UNMC in Lincoln, NE. Upon successful completion of this four year program, a student will receive a Bachelor of Science degree in Dental Hygiene from UNMC.

PHARMACY: Includes two years of coursework at CSC, three years of professional study at the College of Pharmacy at UNMC in Omaha, and one year of clerkships in rural Nebraska. Upon successful completion of this six year program, the student will qualify for the Bachelor for Science in Health Science upon successful completion of the first year of the professional program, and will receive a Doctor of Pharmacy degree from UNMC College of Pharmacy.

MEDICAL TECHNOLOGY: Includes three years of study at CSC, three months of study in the student clinical laboratory at UNMC in Omaha or Kearney, Nebraska, and nine months of clinical laboratory experiences in Omaha or at selected clinical sites in central and western Nebraska. The student will receive a Bachelor of Science degree in Medical Technology from UNMC upon successful completion of this four year program.

MEDICINE: Includes four years of study at CSC followed by four years of professional education at the College of Medicine at UNMC. The student will follow a prescribed four-year program of study at CSC that will satisfy the requirements for Bachelor of Science in Health Science from CSC. The M.D. degree will be awarded by UNMC upon successful completion of the professional program.

PHYSICIAN ASSISTANT: Includes four years of study at CSC, thirteen months of basic medical sciences and clinical training in the Physician Assistant Program at UNMC in Omaha, Nebraska, followed by fifteen months at UNMC in Omaha or at selected clinical sites in western Nebraska. The student may receive a Bachelor of Science degree from CSC upon successful completion of the first year of physician assistant school.

PHYSICAL THERAPY: Includes three years of study at CSC, three years of basic medical science and clinical training at UNMC in Omaha, Nebraska, and a semester of clinical experiences in western Nebraska. The student may receive a Bachelor of Science degree with a comprehensive major in Health Sciences from Chadron State College upon successful completion of the first year of the professional program, and a Doctor of Physical Therapy from UNMC upon successful completion of the professional program.

NURSING: Typically includes one and a half years to two academic years of coursework at CSC, and five semesters of professional study at the Scottsbluff Campus of the UNMC College of Nursing. Upon completion of this program, a student will receive a Bachelor of Science in Nursing degree from UNMC.

RADIOGRAPHY: Includes two years of courses at CSC followed by two years of professional study in the Radiation Sciences Technology Program within the School of Allied Health at UNMC in Omaha. Upon successful completion of this four year program, the student will receive a Bachelor of Science degree in Radiation Science Technology from UNMC.
HIGH PLAINS HEALTH OPPORTUNITIES PROGRAM

The High Plains Health Opportunities Program (HPHOP) is a cooperative program between Chadron State College and Creighton University Health Sciences Center. This program is designed for students from Wyoming, South Dakota, Montana, Colorado, and Nebraska wanting to become Occupational Therapists or Pharmacists and who want to return to a rural area to practice. The students in either option of this program follow a special curriculum during their two or three years at CSC. Students in occupational therapy spend four years in the Occupational Therapy Program at Creighton University and receive a Doctor of Occupational Therapy degree from Creighton University upon successful completion of the program. Students in pharmacy spend four years in the Pharmacy Program at Creighton University and receive a Doctor of Pharmacy degree from Creighton University upon successful completion of the program. Students admitted into HPHOP will be automatically admitted into the designated professional program at Creighton University upon successful completion of the appropriate two year curriculum at CSC.

For information, application forms, admissions criteria, criteria for evaluation of progress in the program, and programs of study while at CSC, please contact the Health Professions Office at CSC.

COURSE DESCRIPTIONS

BIOL 110  Introduction to Laboratory Medicine  Credit 1 hour
Processes and procedures of the clinical laboratory including a historical perspective, hospital/laboratory organization, accrediting agencies, professional organizations, communication, ethics, departments, specialties, and the attributes of effective medical laboratory utilization.

BIOL 121  Human Anatomy and Physiology  Credit 2 hours
An introductory study of the structure and function of the human body. Not for Biology or Health Science majors and minors. Must be taken concurrently with BIOL 121L.

BIOL 121L  Human Anatomy and Physiology Laboratory  Credit 1 hour
Lab experience. Must be taken concurrently with BIOL 121.

BIOL 131  Fundamentals of Cellular Biology  Credit 3 hours
The form, function, and physiology of eucaryotic cells, procaryotic cells, viruses, and prions. Must be included with BIOL 138/138L and BIOL 139/139L for a complete first year experience in biology.

BIOL 136  Biological Science  Credit 2 hours
A survey of biological knowledge and principles designed to meet the needs of the non-science major. No credit towards biology major or minor. Must be taken concurrently with BIOL 136L.

BIOL 136L  Biological Science Laboratory  Credit 1 hour
Lab experience. Must be taken concurrently with BIOL 136.

BIOL 138  General Botany  Credit 2 hours
The general principles of plant life. The groups of higher plants will be studied and demonstrated in the laboratories. Must be taken concurrently with BIOL 138L.

BIOL 138L  General Botany Laboratory  Credit 1 hour
Lab experience. Must be taken concurrently with BIOL 138.

BIOL 139  General Zoology  Credit 2 hours
The classification, genetics, ecology, anatomy, physiology, behavior, and phylogenetic relationships of major animal groups. Must be taken concurrently with BIOL 139L.

BIOL 139L  General Zoology Laboratory  Credit 1 hour
Lab experience. Must be taken concurrently with BIOL 139.
### BIOL 221 Bioterminology  
Credit 2 hours  
The study of prefixes, suffixes, and roots of words used in medical and biological fields, emphasizing their origin in the Greek and Latin languages. Designed for biology majors and pre-professional students in the health care fields. Prerequisite: Nine hours of biology courses excluding BIOL 136/136L.

### BIOL 229 Vertebrate Zoology  
Credit 1 hour  
The phyletic treatment of Chordate groups, living and extinct. Must be taken concurrently with BIOL 229L. Prerequisites: BIOL 131 and BIOL 139/139L.

### BIOL 229L Vertebrate Zoology Laboratory  
Credit 1 hour  
Laboratory experience. Must be taken concurrently with BIOL 229.

### BIOL 231 Anatomy and Physiology  
Credit 3 hours  
Physiology as well as the gross, living, and clinical anatomy of each organ system of the body. Donor bodies will be utilized. This course is designed for Biology majors and students entering the health professions. Must be taken concurrently with BIOL 231L.

### BIOL 231L Anatomy and Physiology Laboratory  
Credit 1 hour  
Laboratory experience. Must be taken concurrently with BIOL 231.

### BIOL 235 Introduction to Wildlife Management  
Credit 3 hours  
Introduction to the basic principles of wildlife biology and the art and science of wildlife management. Emphasis will be placed on terrestrial wildlife. Field trips required. Cross-listed as AGRI 235.

### BIOL 270 Topics in Biology  
Credit 1-3 hours  
Special topics appropriate for lower division credit. May be repeated with different emphases for up to six hours of credit.

### BIOL 311 Fact, Fiction, and Hypotheses  
Credit 1 hour  
Selection of topics suitable for library research, conduct of literature searches, and critical analysis of sources. May be repeated, but only one hour applies to major. For second semester sophomores or juniors in Biology or Health Sciences majors.

### BIOL 320 Supervised Study in Laboratory and Field Methods  
Credit 1 hour  
Students will prepare, supervise, and evaluate laboratory exercises under the direction of faculty members. Designed to give students practical experience teaching in the laboratory setting.

### BIOL 323 Basic Hematology  
Credit 1 hour  
Basic hematology and urinalysis including microscope usage and care; blood cell formation, function and destruction; abnormal blood cells; blood clotting; coagulation disorders; and the chemical and physical examination of urine. Must be taken concurrently with BIOL 323L. Prerequisites: BIOL 131, BIOL 231/231L, and CHEM 231/231L.

### BIOL 323L Basic Hematology Laboratory  
Credit 1 hour  
Laboratory experience. Must be taken concurrently with BIOL 323. All students must have received two of the three hepatitis B vaccinations prior to beginning this course.

### BIOL 325 Rangeland Wildlife Management  
Credit 3 hours  
Issues and management of wildlife and their habitats on rangelands. Emphasis will be on wildlife habitat management and manipulation and the issues of co-habitation of wildlife and domestic livestock. Field trips may be required. Cross-listed as AGRI 325. Prerequisite: Sophomore status or permission of Instructor and Dean.

### BIOL 328 Invertebrate Zoology  
Credit 1 hour  
The invertebrate phyla of the animal kingdom. Must be taken concurrently with BIOL 328L. Prerequisites: BIOL 131 and BIOL 139/139L.
BIOL 328L  Invertebrate Zoology Laboratory  
Laboratory experience. Must be taken concurrently with BIOL 328.  
Credit 1 hour  

BIOL 331  Human Sexuality  
Designed to present the different dimensions of human sexuality and to provide information that can contribute to the student’s knowledge, comfort, and choices regarding personal and interpersonal aspects of sexuality.  
Credit 3 hours  

BIOL 332  Genetics  
Transmission of traits from generation to generation, including Mendelian, molecular, and population genetics. Prerequisites: BIOL 131, CHEM 233/233L, and MATH 232, or permission of instructor.  
Credit 3 hours  

BIOL 336  General Ecology  
Factors that influence the distribution and abundance of organismal populations. Must be taken concurrently with BIOL 336L. Field trips required. Prerequisite: 12 hours of Biology excluding BIOL 136/136L.  
Credit 2 hours  

BIOL 336L  General Ecology Laboratory  
Laboratory experience. Must be taken concurrently with BIOL 336.  
Credit 1 hour  

BIOL 337  Environmental Management  
Global ecosystem and humans’ impact on it, including biology in human affairs, air and water pollution, and population problem. Special projects are required. Field trips required.  
Credit 3 hours  

BIOL 340  Human Anatomy  
An advanced study of the microscopic and gross structure of the human body. This course will prepare the student for entry into BIOL 342. Donor bodies are used. Must be taken concurrently with BIOL 340L.  
Credit 3 hours  

BIOL 340L  Human Anatomy Laboratory  
Laboratory experience. Must be taken concurrently with BIOL 340.  
Credit 1 hour  

BIOL 341  Microbiology  
Study of bacteria, molds, yeasts, algae, protozoa, viruses, and rickettsias. Must be taken concurrently with BIOL 341L. Prerequisite: BIOL 131 or consent of the instructor.  
Credit 2 hours  

BIOL 341L  Microbiology Laboratory  
Laboratory experience. Must be taken concurrently with BIOL 341.  
Credit 2 hours  

BIOL 342  Human Physiology  
The detailed Human Physiology of each organ system of the body is discussed at an advanced level. BioPac computer laboratory equipment and donor bodies are used. Must be taken concurrently with BIOL 342L. Prerequisites: BIOL 231/231L or consent of the instructor.  
Credit 3 hours  

BIOL 342L  Human Physiology Laboratory  
Laboratory experience. Must be taken concurrently with BIOL 342.  
Credit 1 hour  

BIOL 343  Parasitology  
Taxonomy, morphology, physiology, life history, and control of the parasitic protozoans, helminthes, and arthropods. Must be taken concurrently with BIOL 343L. Prerequisites: BIOL 131, BIOL 139/139L, and BIOL 328/328L.  
Credit 2 hours  

BIOL 343L  Parasitology Laboratory  
Laboratory experience. Must be taken concurrently with BIOL 343.  
Credit 1 hour  

BIOL 350  Field Biology  
One to five week field course offered between semesters, spring break, or during the summer. One hour of credit may be earned for each week of full time participation. Itinerary for each class will be announced several weeks prior to registration. Fees in addition to tuition will be charged. Early registration required.  
Credit 1-6 hours  

BIOL 390  Internship in Biology  
Provides practical experience as a biologist in government, business, or industry. Open to upper division students majoring in the area of biology. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.  
Credit 1-12 hours
BIOL 400 Independent Study or Research  Credit 1-3 hours  
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and School Dean is required.

BIOL 401 Ornithology  Credit 2 hours  
Biology of birds, including their classification, anatomy, physiology, life history, behavior, ecology, and identification with emphasis on local species. Must be taken concurrently with BIOL 401L.

BIOL 401L Ornithology Laboratory  Credit 1 hour  
Laboratory and field experience. Must be taken concurrently with BIOL 401.

BIOL 410 Biology Seminar  Credit 1 hour  
Each student will select a topic with approval by the biology faculty, collectively. The student will complete original research or literature review on the topic and report by a poster, a written research report, and a verbal presentation with audiovisuals. May be repeated but only one hour applies to major. Requirements: Senior Status, Biology Major or Junior status, Health Sciences. Prerequisite: BIOL 311 or permission of instructor.

BIOL 412 Biotechnology  Credit 3 hours  
Hands-on procedures with lectures and readings to provide theoretical understanding and historical background of biotechnology work. Prerequisite or corequisite: BIOL 332 or CHEM 435/435L, and consent of instructor.

BIOL 425 Plant Morphology  Credit 2 hours  
Origin and structure of plant cell types and tissues along with a survey of the plant world illustrated by specific examples from both living and fossil plants. Must be taken concurrently with BIOL 425L. Prerequisites: BIOL 131 and BIOL 138/138L.

BIOL 425L Plant Morphology Laboratory  Credit 1 hour  
Laboratory experience. Must be taken concurrently with BIOL 425.

BIOL 426 Wildlife Research and Management Techniques  Credit 3 hours  
Field and laboratory techniques for studying, evaluating, and managing wildlife and their habitats are described and demonstrated. Field trips required. Cross listed as AGRI 426. Prerequisite: BIOL/AGRI 235 required; BIOL/AGRI 325 recommended.

BIOL 427 Biology of Populations  Credit 3 hours  
Population ecology and the genetic processes of adaptation and evolution. Class consists of lectures and class discussion of current literature. Prerequisites: BIOL 332 and BIOL 336/336L.

BIOL 429 Aquatic Microbiology  Credit 3 hours  
The detection and study of bacteria in streams, lakes, wells, etc. and a basic review of water-borne viruses that are of public health significance. Oral and written presentations, laboratory and field trips required. BIOL 341/341L or consent of instructor highly recommended.

BIOL 430 Immunology  Credit 3 hours  
Function of the human immune system including the structure and function of bone marrow, blood cells, and lymphatic tissue. Prerequisites: CHEM 435 and BIOL 342/342L or consent of instructor.

BIOL 431 Entomology  Credit 2 hours  
Taxonomy, morphology, physiology, life history, behavior, ecology, and economic importance of insects. Lecture, laboratory and field trips. Must be taken concurrently with BIOL 431L. Prerequisites: BIOL 139/139L and BIOL 328/328L.

BIOL 431L Entomology Laboratory  Credit 1 hour  
Laboratory and field experience. Must be taken concurrently with BIOL 431.
BIOL 432 Developmental Biology Credit 2 hours
Molecular and cellular aspects of development, including the regulation and expression of the genome during development, fertilization, cleavage, gastrulation, morphogenesis, and organogenesis. Must be taken concurrently with BIOL 432L. Prerequisites: BIOL 332 and CHEM 435, or permission of instructor.

BIOL 432L Developmental Biology Laboratory Credit 1 hour
Vertebrate embryology and morphological development laboratory. Must be taken concurrently with BIOL 432.

BIOL 433 Analysis of Human Movement Credit 2 hours
Utilization of anatomy, physiology, biochemistry, and physics in the study of human movement, with emphasis on biomechanics, control and integration of muscle groups in maintaining posture and producing complicated movements, bioenergetics, adaptation of the body to stress and exercise, and training regimens. Must be taken concurrently with BIOL 433L. Prerequisites: BIOL 342/342L, CHEM 435/435L, and PHYS 152/152L, or permission of instructor.

BIOL 433L Analysis of Human Movement Laboratory Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 433.

BIOL 435 Mammalogy Credit 2 hours
Systematics, life history, physiology, and behavior of mammals. Must be taken concurrently with BIOL 435L. Field trips required. Prerequisites: BIOL 336/336L or AGRI 433/433L.

BIOL 435L Mammalogy Laboratory Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 435.

BIOL 436 Research Microscopy Credit 3 hours
Microscopic principles and techniques and research methods. Students will plan and carry out a research project using light microscopy and present their findings in a public seminar. Prerequisite: 12 hours of Biology credit excluding BIOL 136/136L, or approval of the instructor.

BIOL 437 Wildlife Management Practicum Credit 3 hours
A seminar style course that will bring together wildlife professionals, natural resource managers, livestock producers, environmentalists and others interested in wildlife management. Participants will describe, discuss, and debate existing programs and issues on private and public lands. Field trips required. Cross-listed as AGRI 435. Prerequisite: BIOL/AGRI 235, BIOL/AGRI 426 required, BIOL/AGRI 325 recommended.

BIOL 438 Taxonomy of Plants Credit 2 hours
The taxonomy of vascular plants with emphasis on the local flora, agriculturally important plants, and range plants. Field trips required. Must be taken concurrently with BIOL 438L. Prerequisite: BIOL 138/138L or equivalent.

BIOL 438L Taxonomy of Plants Laboratory Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 438.

BIOL 439 Plant Physiology Credit 2 hours
Physiological and developmental processes occurring in cells, tissues, and organs of plants, with emphasis on hormonal, environmental and other control mechanisms of plant behavior and development. Must be taken concurrently with BIOL 439L. Prerequisite: BIOL 138/138L or AGRI 141. Either CHEM 231/231L or 233/233L recommended.

BIOL 439L Plant Physiology Laboratory Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 439.

BIOL 440 Topics in Human Biology Credit 1-3 hours
Designed to meet the needs of different groups of people desiring study in gross and living anatomy, physiology, embryology, histology, and neurobiology. Study topics and credit will be arranged to meet the needs of the students. Can be repeated with a change in emphasis for a total of twelve hours of credit.
BIOL 443  Topics in Biology  Credit 1-3 hours
Designed to meet the needs of different groups of people desiring knowledge in an area of biology not covered in another biology course. Study topics and credit will be arranged to meet the needs of the students. Laboratory work, field work, and extra fees may be required. Can be repeated with a change in emphasis for a total of six hours of credit.

BIOL 444  Limnology  Credit 2 hours
Biological, chemical and physical studies of inland surface waters. Must be taken concurrently with BIOL 444L. Field trips required. Prerequisite: BIOL 336/336L.

BIOL 444L  Limnology Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 444.

BIOL 446  Regional Flora  Credit 3 hours
The plants and plant communities of the region. Workshop format for majors and non-majors. Field trips required.

BIOL 448  Ethnobotany of the Northern Great Plains  Credit 3 hours
Plants useful or harmful to man, their origins and history, botanical relationships, chemical constituents which make them economically important, roles in prehistoric and modern cultures and civilizations, and the potential of the plant kingdom for new economically important species. Must be taken concurrently with BIOL 448L. Field trips required.

BIOL 448L  Ethnobotany of the Northern Great Plains Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 448.

BIOL 449  Molecular Biology of the Cell  Credit 3 hours
In-depth analysis of eukaryotic cellular biology, including cell-cell communication, signal transduction, apoptosis, control of cell cycle, and other advanced topics (cancer, gene therapy, prokaryotic cells, viruses). Concurrent enrollment in BIOL 449L required. Prerequisites: BIOL 341/341L, and either CHEM 231/231L or CHEM 233/233L and CHEM 234/234L.

BIOL 449L  Molecular Biology of the Cell Laboratory  Credit 2 hours
Project-based laboratory using a broad range of basic techniques. In addition to tools and approaches learned in BIOL/CHEM 412, students will learn cell culturing, and DNA, RNA and protein analysis. Concurrent enrollment in BIOL 449 required.

BIOL 450  Field Limnology  Credit 3 hours
Lecture and field methods for studying the biological, chemical, and physical processes in lakes and streams. Includes an extended field trip to Yellowstone National Park or other areas. Fees in addition to tuition will be charged. Early registration required. Prerequisite: one year of college-level science.

BIOL 456  Pathogenic Microbiology and Parasitology  Credit 2 hours
Major communicable diseases of humans caused by bacteria, fungi, and viruses. Global and regional impact, host-parasite relationships, morphology and physiology, diagnostic techniques used in isolation and identification, treatment, prevention, and modes of transmission are discussed. Field trips required. Must be taken concurrently with BIOL 456L. Prerequisites: BIOL 341/341L or equivalent.

BIOL 456L  Pathogenic Microbiology and Parasitology Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 456.

BIOL 465  Neuroscience  Credit 3 hours
Advanced study of the human nervous system. Includes lectures and laboratory experiences with human nervous tissue. Organization, structure, and function of the Central Nervous System as it relates to clinical problem-solving of neurological disorders. Prerequisites: BOL 342/342L.
RAPID CITY REGIONAL HOSPITAL
AFFILIATED HOSPITAL-BASED
CLINICAL MEDICAL TECHNOLOGY CURRICULUM

This structured curriculum for the clinical year of professional study at an affiliated hospital-based medical technology program includes: Theory and Principles, Methodologies and Instrumentation, Problem Solving, Quality Assurance, and Computer Applications, Clinical Significance and Correlation of Laboratory Procedures (in the diagnosis and treatment of disease processes).

The curriculum encompasses six MAJOR subject areas commonly offered in the modern clinical laboratory. These six major subjects are: Clinical Microscopy/Urinalysis, Clinical Hematology/Coagulation, Clinical Microbiology, Clinical Serology/Immunology, Clinical Chemistry/Radiobioassay/Body Fluids, and Clinical Immunohematology.

It also includes SPECIALIZED UNITS OF INSTRUCTION (SPECIAL TOPICS) which may be offered as separate courses, clustered together, or included within one of the major subject areas. These specialized units are: Introduction/Orientation to Medical Technology, Phlebotomy, Computer Applications in the Clinical Laboratory, Laboratory Mathematics/Quality Assurance, Management/Supervision, Educational Methodology, and Introduction to Research.

Clock hours (didactic and practical), as well as placement of these specialized units within the clinical year, account for the diversity of credit hours per subject area assigned by the hospital affiliate. The total semester hours credit recommended by COMTE (Committee on Medical Technology Education) for transcript posting is 40 hours.

Special Appointment Medical Technology Program Faculty: Pam Kieffer, M.T., Program Director; Susan L. Eliason, M.D., Medical Director.

COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Major Subjects</th>
<th>Semester Hours Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture, supervised laboratory instruction, quality control, instrumentation, computer applications, and experience in body fluids and urine in regard to chemical and cellular composition, anatomy and physiology, theory of renal function in health and disease.</td>
<td></td>
</tr>
<tr>
<td>2. Clinical Hematology/Coagulation</td>
<td>Range of Credit: 5-8 sem. hrs.</td>
</tr>
<tr>
<td>Lecture, supervised laboratory instruction, quality control, instrumentation, computer applications, and experience in the analysis of cellular elements of the blood and bone marrow, both normal and abnormal, and on the hemostatic mechanisms of the blood.</td>
<td></td>
</tr>
<tr>
<td>3. Clinical Microbiology</td>
<td>Range of Credit: 8-12 sem. hrs.</td>
</tr>
<tr>
<td>Lecture, supervised laboratory instruction, quality control, instrumentation, computer applications, and experience in the isolation and identification of pathogenic organisms and their susceptibility to anti-microbial agents. Includes Bacteriology, Mycology, Parasitology, and Virology.</td>
<td></td>
</tr>
<tr>
<td>Lecture on antigen/antibody structure-function-interactions, supervised laboratory instruction, quality control, instrumentation, computer applications, and experience in applying the principles of immunology to serologic diagnosis.</td>
<td></td>
</tr>
<tr>
<td>5. Clinical Chemistry/Radiobioassay/Body Fluids</td>
<td>Range of Credit: 8-12 sem. hrs.</td>
</tr>
<tr>
<td>Lecture, supervised laboratory instruction, quality control, computer applications, instrumentation, and experience in medically oriented biochemistry as applied to normal and abnormal physiology and analyses of body constituents. Includes analyses of special body fluids such as amniotic, synovial cerebrospinal, gastric, and pleural fluids. Includes special procedures utilized for toxicology, endocrinology and radiobioassay.</td>
<td></td>
</tr>
<tr>
<td>6. Clinical Immunohematology</td>
<td>Range of Credit: 4-6 sem. hrs.</td>
</tr>
<tr>
<td>Lecture, supervised laboratory instruction, quality control, instrumentation, computer applications and experience in theory and practice of immunohematology as applied to blood transfusion, component therapy, autoimmune diseases, immunologic diagnostic procedures, and blood component preparation and administration.</td>
<td></td>
</tr>
</tbody>
</table>
Specialized Units (Special Topics)

7. Orientation to Medical Technology
   A. Introduction
   Introduction to basic techniques, principles of safety, infection control, professional ethics, and personal and professional responsibilities in the clinical laboratory. Review of program’s rules and regulations. Introduction to clinical significance of laboratory procedures in diagnosis and treatment.
   B. Phlebotomy
   Anatomy and physiology of the arm, blood collection techniques from vein, capillary, artery, and difficult draw sites. Specimen variables and handling techniques. Interactive communication skills with patients and paraprofessionals.
   C. Computer Applications in the Clinical Lab
   An introduction to techniques, principles, and concepts common in laboratory data processing systems. Utilization of mini-computers in the laboratory and with instruments.
   D. Laboratory Mathematics/Quality Assurance
   Laboratory oriented mathematics with emphasis on performing calculations related to units of measure, pH, Beer’s Law and calibration curves, Henderson-Hasselbach equation, enzyme activity, renal clearance, gastric acidity, and hematology calculation. Principles and practices of quality assurance. Includes statistical techniques, method evaluation, and pipette calibration.

8. Management and Supervision
   Lectures and/or seminars on theory and techniques of laboratory oriented management practices utilized in planning, organizing, directing, controlling, and supervising a clinical laboratory facility.

9. Educational Methodologies
   Lectures and/or seminars on the principles of education. Includes methods of instruction, writing objectives, and evaluation devices for didactic and clinical practice.

10. Introduction to Research
    Faculty guided study, research, scientific writing, case study presentations, and/or projects in specialty area(s) of medical technology.

PHYSICAL SCIENCES

The Degree of Bachelor of Science with a COMPREHENSIVE MAJOR IN PHYSICAL SCIENCES: A student must complete the core requirements, an option, and the General Studies requirements. Students seeking to enter graduate school are advised to take advanced coursework in the discipline, plus additional mathematics. Students should consult their advisor.

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM, GEOS or PHYS 110 Careers in Science</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 131 &amp; 131L College Chemistry I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM, GEOS, PHYS 310 Capstone I:</td>
<td></td>
</tr>
<tr>
<td>Research Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 332 &amp; 332L Analytical Instr &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>CHEM, GEOS, PHYS 401 Capstone II:</td>
<td></td>
</tr>
<tr>
<td>Senior Research</td>
<td>2</td>
</tr>
<tr>
<td>CHEM, GEOS, PHYS 410 Capstone III: Senior Research Thesis</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 231 &amp; 231L Physical Geology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 321 Introduction to GPS</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 322 Introduction to GIS</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 151 &amp; 151L College Physics &amp; Lab</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 370D Scientific Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>Math elective chosen from 138, 151, or 232</td>
<td>3-5</td>
</tr>
<tr>
<td>Total</td>
<td>30-32</td>
</tr>
</tbody>
</table>
### Chemistry Option

Students pursuing this option must complete MATH 151 as the General Studies Mathematics requirement. Students must complete MATH 232 in core requirements above.

<table>
<thead>
<tr>
<th>Core requirements</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 132 &amp; 132L College Chemistry I &amp; Lab</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 233 &amp; 233L Organic Chemistry I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 234 &amp; 234L Organic Chemistry II &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 341 &amp; 341L Analytical Chemistry I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>*Upper division Chemistry electives</td>
<td>11</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>58</strong></td>
</tr>
</tbody>
</table>

* **Electives**

Students should consult with an academic advisor in Chemistry in choosing elective courses specializing in physical chemistry, environmental chemistry, or biological chemistry. Must include at least two courses and associated labs from the following list: CHEM 342/342L, 412, 430, 433/433L, 435/435L, 444/444L.

### Physics Option

Students pursuing this option must complete MATH 330 as the General Studies Mathematics requirement. Students must complete MATH 151 in core requirement above.

<table>
<thead>
<tr>
<th>Core requirements</th>
<th>32</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 252 Calculus II</td>
<td></td>
</tr>
<tr>
<td>PHYS 152 &amp; 152L College Physics II &amp; Lab</td>
<td></td>
</tr>
<tr>
<td>PHYS 434 Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 444 Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 454 Electricity &amp; Magnetism</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 464 Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 470a Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 471k Advanced Physics Lab</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>58</strong></td>
</tr>
</tbody>
</table>

### Geoscience Option

Students pursuing this option must complete MATH 138 or 232 as the General Studies Mathematics requirement.

<table>
<thead>
<tr>
<th>Core requirements</th>
<th>30-32</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 234 &amp; 234L History of Earth Systems &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 338 Rocks &amp; Minerals</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 431 Geology of Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 432 Structural Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 439 &amp; 439L Sedimentology &amp; Strat &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 334 Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>Field Camp (may be taken at another institution)</td>
<td>5</td>
</tr>
<tr>
<td>Upper division GEOS electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>56-58</strong></td>
</tr>
</tbody>
</table>

The **Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN CHEMISTRY (7-12):**

Students must complete the following program in addition to the Professional Education and General Studies requirements. Students pursuing this endorsement must complete MATH 138 as the General Studies Mathematics requirement.

<table>
<thead>
<tr>
<th>Biology Electives</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 138 &amp; 138L General Botany &amp; Lab</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>BIOL 139 &amp; 139L General Zoology &amp; Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 131 &amp; 131L College Chemistry I &amp; Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 132 &amp; 132L College Chemistry II &amp; Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 231 &amp; 231L Intro to Organic Chem &amp; Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 310 Capstone I: Research Seminar</td>
<td></td>
</tr>
<tr>
<td>CHEM 320 Sup Study in Lab/Field Methods</td>
<td></td>
</tr>
<tr>
<td>CHEM 341 &amp; 341L Analytical Chemistry I &amp; Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 430 Inorganic Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 435 &amp; 435L Biochemistry &amp; Lab</td>
<td></td>
</tr>
<tr>
<td>CHEM 444 &amp; 444L Physical Chemistry &amp; Lab</td>
<td></td>
</tr>
<tr>
<td>GEOS 231 &amp; 231L Physical Geology &amp; Lab</td>
<td></td>
</tr>
<tr>
<td>GEOS 320 Sup Study in Lab &amp; Field Methods</td>
<td></td>
</tr>
<tr>
<td>GEOS 338 Rocks &amp; Minerals</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 431 Geology of Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 151 &amp; 151L College Physics I &amp; Lab</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>43</strong></td>
</tr>
</tbody>
</table>

The **Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN EARTH SCIENCE (7-12):**

Students must complete the following program in addition to the Professional Education and General Studies requirements.

| CHEM 140 & 140L General Chemistry & Lab | 4        |
| GEOS 137 Environmental Geology         | 3        |
| GEOS 231 & 231L Physical Geology & Lab | 4        |
| GEOS 234 & 234L History of Earth Systems & Lab | 4        |
| GEOS 310 Capstone I: Research Seminar | 1        |
| GEOS 320 Sup Study in Lab & Field Methods | 1        |
| GEOS 338 Rocks & Minerals              | 3        |
| GEOS 431 Geology of Water Resources    | 3        |
| PHYS 151 & 151L College Physics I & Lab |          |
| OR                                  |          |
| PHYS 241 & 241L University Physics I & Lab |          |
| PHYS 333 & 333L Astronomy & Lab       | 3        |
| PHYS 334 Meteorology                 | 3        |
| Biology Electives                    | 6        |
| Geoscience Electives                 | 3        |
| **Total**                           | **43**   |
**The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN NATURAL SCIENCE (7-12):** Students must complete the following program in addition to the Professional Education and General Studies requirements. Students pursuing this endorsement must complete MATH 232 as the General Studies Mathematics requirement. Spanish language classes are highly encouraged.

Students choosing the Natural Science Field Teaching Endorsement opt for a concentration in one of four areas: Biology, Chemistry, Earth Science or Physics (below).

<table>
<thead>
<tr>
<th>Core</th>
<th>28 hours from core requirement selection below</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration</td>
<td>24-25 hours from one area of concentration selection below</td>
</tr>
<tr>
<td>Total</td>
<td>52-53 hours</td>
</tr>
</tbody>
</table>

**CORE REQUIREMENTS : Choose 28 credits from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 131</td>
<td>Fundamentals of Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 138 &amp; 138L General Botany &amp; Lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BIOL 139 &amp; 139L General Zoology &amp; Lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM 131 &amp; 131L College Chem I and Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHEM 231 &amp; 231L Intro to Organic Chem &amp; Lab</td>
<td>4*</td>
<td></td>
</tr>
<tr>
<td>CHEM 341 &amp; 341L Analytical Chem I &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEOS 231 &amp; 231L Physical Geology &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEOS 234 &amp; 234L Modern Physics &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEOS 335 World Environmental Issues</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 232</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Courses selected within an area of concentration cannot use the same course to satisfy core requirements.

*NOTE: Students in the Chemistry Concentration must take CHEM 233 & 233L in place of CHEM 231 and 231L.

**Select one concentration from below:**

**BIOLOGY**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 131</td>
<td>Fundamentals of Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 138 &amp; 138L General Botany &amp; Lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BIOL 139 &amp; 139L General Zoology &amp; Lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BIOL 231</td>
<td>Anatomy &amp; Physiology I &amp; II</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 311</td>
<td>Fact, Fiction &amp; Hypotheses</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 332</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 336 &amp; 336L General Ecology &amp; Lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BIOL 341 &amp; 341L Microbiology &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHEM 110</td>
<td>Careers in Science</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 131 &amp; 131L General Chem I &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHEM 132 &amp; 132L General Chem II &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHEM 231 &amp; 231L Organic Chem &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHEM 310</td>
<td>Capstone I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 320</td>
<td>Supervised Study in Lab Methods</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 330</td>
<td>Environmental Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Environmental Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 345 &amp; 345L Biochemistry &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EARTH SCIENCE</td>
<td>Eelectives in Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 25

**CHEMISTRY**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 110</td>
<td>Careers in Science</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 131 &amp; 131L General Chem I &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>CHEM 310</td>
<td>Capstone I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 320</td>
<td>Supervised Study in Lab Methods</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 330</td>
<td>Environmental Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Environmental Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 350</td>
<td>Environmental Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 351</td>
<td>Environmental Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 110</td>
<td>Careers in Science</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 137</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 231 &amp; 231L Physical Geology &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEOS 310</td>
<td>Introduction to GPS</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 322</td>
<td>Introduction to GIS</td>
<td>2</td>
</tr>
<tr>
<td>GEOS 338</td>
<td>Rocks &amp; Minerals</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 431</td>
<td>Geology of Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 439 &amp; 439L Stratig and Sed &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Total 25

**EARTH SCIENCE**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 110</td>
<td>Careers in Science</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 137</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 231 &amp; 231L Physical Geology &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEOS 234 &amp; 234L Hist of the Earth Sys &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>GEOS 321</td>
<td>Introduction to GPS</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 322</td>
<td>Introduction to GIS</td>
<td>2</td>
</tr>
<tr>
<td>GEOS 338</td>
<td>Rocks &amp; Minerals</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 431</td>
<td>Geology of Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 439 &amp; 439L Stratig and Sed &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHYS 110</td>
<td>Careers in Science</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 151 &amp; 151L Colg Physics I &amp; Lab</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>PHYS 152 &amp; 152L Colg Physics II &amp; Lab</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>PHYS 310</td>
<td>Capstone I</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 333 &amp; 333L Astronomy &amp; Lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHYS 334</td>
<td>Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370A &amp; 370L Modern Physics &amp; Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHYS 435</td>
<td>World Environmental Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 25

**PHYSICS**
The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN PHYSICAL SCIENCE (7-12): Students must complete the following program in addition to the Professional Education and General Studies requirements. Students pursuing this endorsement must take MATH 232 as their General Studies mathematics requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 131 &amp; 131L College Chemistry I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 231 &amp; 231L Intro to Organic Chem &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 433 &amp; 433L Environmental Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>CHEM 435 &amp; 435L Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 137 Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 231 &amp; 231L Physical Geology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 234 &amp; 234L History of the Earth Sys &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 338 Rocks &amp; Minerals</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 110 Careers in Science</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 151 &amp; 151L College Physics I &amp; Lab</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 333 &amp; 333L Astronomy &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 334 Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Biology: BIOL 131, 138/138L</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>44</td>
</tr>
</tbody>
</table>

The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN PHYSICS (7-12): Students must complete the following program in addition to the Professional Education and General Studies requirements. Students pursuing this endorsement must take MATH 151 as their General Studies mathematics requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 136 &amp; 136L Biological Science &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 140 &amp; 140L General Chemistry &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 231 &amp; 231L Physical Geology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 110 Careers in Science</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 151 &amp; 151L College Physics I &amp; Lab</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 152 &amp; 152L College Physics II &amp; Lab</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 310 Capstone I: Research Seminar</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 333 &amp; 333L Astronomy &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 334 Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370a Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 370c Modern Physics Lab</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 370d Scientific Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 471e Optics</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 471k Advanced Physics Lab</td>
<td>1</td>
</tr>
<tr>
<td>Elective in Biology</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>39</td>
</tr>
</tbody>
</table>

The Degree of Bachelor of Science in Education with a MIDDLE GRADES CONTENT AREA OF SPECIALIZATION IN NATURAL SCIENCES (4-9): A student must complete the following program in addition to the General Studies, Professional Education Middle Grades requirements, and one other Content Area of Specialization requirements. Students pursuing this endorsement must complete PHYS 435 as the General Studies Global Studies requirement. The following hours must be unduplicated, i.e. different from General Studies hours taken:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 121 &amp; 121L Human Anatomy &amp; Phys &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 136 &amp; 136L Biological Science &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 140 &amp; 140L General Chemistry &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 231 &amp; 231L Physical Geology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 330 Physical Science for Elem &amp; Middle School Teachers</td>
<td>3</td>
</tr>
<tr>
<td>Elective in Biol, Chem, Geoscience or Physics</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

MINORS in Physical Science

**Chemistry**: A student must complete the following program in addition to the General Studies requirements and a major in another area.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 140 &amp; 140L General Chemistry &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 231 &amp; 231L Intro to Organic Chem &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 332 &amp; 332L Analytical Instrum &amp; Lab.</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 433 &amp; 433L Environmental Chem &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>CHEM 435 &amp; 435L Biochemistry &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 444 &amp; 444L Physical Chem &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>Upper division chemistry elective</td>
<td>2*</td>
</tr>
<tr>
<td>Total</td>
<td>21</td>
</tr>
</tbody>
</table>

*If the upper division elective has an accompanying laboratory, the student must complete both class and laboratory.

**For an Environmental emphasis, CHEM 131/131L, and 132/132L should be substituted for CHEM 140/140L, and CHEM 341/341L should be substituted for CHEM 332/332L.
**Geoscience:** A student must complete the following program in addition to the General Studies requirements and a major in another discipline.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOS 231 &amp; 231L</td>
<td>Physical Geology &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 234 &amp; 234L</td>
<td>History of Earth Systems &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 338</td>
<td>Rocks &amp; Minerals</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 431</td>
<td>Geology of Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 432</td>
<td>Structural Geology</td>
<td></td>
</tr>
<tr>
<td>GEOS 439 &amp; 439L</td>
<td>Sedimentology/Strat &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

**Physics:** A student must complete the following program in addition to the General Studies requirements and a major in another discipline.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 151 &amp; 151L College Physics I &amp; Lab OR</td>
<td>Physic...</td>
<td></td>
</tr>
<tr>
<td>PHYS 241 &amp; 241L University Physics I &amp; Lab</td>
<td>University...</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 242 &amp; 242L University Physics II &amp; Lab</td>
<td>University...</td>
<td>5</td>
</tr>
<tr>
<td>Upper Division Electives in Physics</td>
<td>Course Title</td>
<td>10</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>20</td>
</tr>
</tbody>
</table>

**Water Resources Management:** A student must complete the following program in addition to the General Studies requirements and a major in another discipline.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 337</td>
<td>Environmental Management</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 429</td>
<td>Aquatic Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 332 &amp; 332L Analytical Instrumentation &amp; Lab OR</td>
<td>Analytical...</td>
<td></td>
</tr>
<tr>
<td>AGRI 245 &amp; 245L Prin of Soil Science &amp; Lab</td>
<td>Soil Science...</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 433 &amp; 433L Environmental Chem &amp; Lab</td>
<td>Environmental...</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 231 &amp; 231L Physical Geology &amp; Lab</td>
<td>Physical Geology...</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 322</td>
<td>Introduction to GIS</td>
<td>2</td>
</tr>
<tr>
<td>GEOS 431</td>
<td>Geology of Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>22-23</td>
</tr>
</tbody>
</table>

**Science Education (K-8):** A student must complete the following program in addition to the General Studies and Professional Education, Elementary Education requirements. The following hours must be unduplicated, i.e. different from General Studies hours taken:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 121 &amp; 121L Human Anat &amp; Phys &amp; Lab</td>
<td>Human Anat...</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 136 &amp; 136L Biological Science &amp; Lab</td>
<td>Biological...</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 140 &amp; 140L General Chemistry &amp; Lab</td>
<td>General Chemistry...</td>
<td>4</td>
</tr>
<tr>
<td>GEOS 231 &amp; 231L Physical Geology &amp; Lab</td>
<td>Physical Geology...</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 330</td>
<td>Phy Sci for Elem &amp; Middle Sch Teach</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Biology, Chemistry, Geosciences, or Physics</td>
<td>Course Title</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

**Academic Certificates in Physical Sciences**

**Geographic Information Systems:** A student may be awarded a Certificate in Geographic Information Systems upon successful completion of the following requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 336</td>
<td>Map Use and GIS</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 390</td>
<td>Internship in Geography (GIS emphasis) OR</td>
<td></td>
</tr>
<tr>
<td>GEOG 400</td>
<td>Independent Study (GIS emphasis)</td>
<td>4</td>
</tr>
<tr>
<td>GEO 321</td>
<td>Introduction to GPS</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 322</td>
<td>Introduction to GIS</td>
<td>2</td>
</tr>
<tr>
<td>IST 133</td>
<td>Programming Concepts I</td>
<td>3</td>
</tr>
<tr>
<td>IST 235</td>
<td>Visual Languages</td>
<td>3</td>
</tr>
<tr>
<td>MIS 331</td>
<td>Database Management</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>19</td>
</tr>
</tbody>
</table>

**Water Resources Management:** A student may be awarded a Certificate in Water Resources Management upon successful completion of Water Resources Management minor listed above.
### CHEMISTRY

**COURSE DESCRIPTIONS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 110</td>
<td>Careers in Science</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Introduction for Physical Sciences majors to career options. Students will conduct independent research of selected firms or agencies. A required field trip to a major metropolitan area will provide knowledge of opportunities and challenges of the technical job market.</td>
<td></td>
</tr>
<tr>
<td>CHEM 121</td>
<td>Fundamental Chemistry</td>
<td>2 hours</td>
</tr>
<tr>
<td></td>
<td>Required of students who have not taken high school chemistry who plan to enroll in CHEM 131 or CHEM 140.</td>
<td></td>
</tr>
<tr>
<td>CHEM 131</td>
<td>College Chemistry I</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Principles and applications of general college chemistry. Concurrent enrollment in CHEM 131L is required. Prerequisite: CHEM 131 and 131L.</td>
<td></td>
</tr>
<tr>
<td>CHEM 131L</td>
<td>College Chemistry I Laboratory</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Accompanies College Chemistry I. Concurrent enrollment in CHEM 131 required.</td>
<td></td>
</tr>
<tr>
<td>CHEM 132</td>
<td>College Chemistry II</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Continuation of College Chemistry I with qualitative analysis. Concurrent enrollment in CHEM 132L required. Prerequisite: CHEM 131 and 131L.</td>
<td></td>
</tr>
<tr>
<td>CHEM 132L</td>
<td>College Chemistry II Laboratory</td>
<td>2 hours</td>
</tr>
<tr>
<td></td>
<td>Laboratory exercises in General Chemistry II and qualitative analysis. Concurrent enrollment in CHEM 132 required.</td>
<td></td>
</tr>
<tr>
<td>CHEM 140</td>
<td>General Chemistry</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Survey of chemistry principles and applications for students requiring a one semester freshman chemistry course. Does not duplicate CHEM 131 and is not a prerequisite for CHEM 132. Concurrent enrollment in CHEM 140L required. Prerequisite: High school algebra or Math 142, and high school chemistry or CHEM 121.</td>
<td></td>
</tr>
<tr>
<td>CHEM 140L</td>
<td>General Chemistry Laboratory</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Accompanies CHEM 140. Basic chemistry laboratory operations. Concurrent enrollment in CHEM 140 required.</td>
<td></td>
</tr>
<tr>
<td>CHEM 231</td>
<td>Introduction to Organic Chemistry</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Survey of organic chemistry principles and applications for students requiring one semester of Organic Chemistry. Nomenclature and reactions of the principle families of organic compounds. Prerequisite: CHEM 132/132L or CHEM 140/140L. Concurrent enrollment in CHEM 231L required.</td>
<td></td>
</tr>
<tr>
<td>CHEM 231L</td>
<td>Introduction to Organic Chemistry Laboratory</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Principle laboratory operations of organic chemistry, organic synthesis, and spectroscopy. Concurrent enrollment in CHEM 231 required.</td>
<td></td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Organic Chemistry I</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Nomenclature, reactions, multi-step synthesis, stereochemistry, mechanisms, and spectroscopy of organic compounds. Prerequisite: CHEM 132/132L or CHEM 140/140L. Concurrent enrollment in CHEM 233L required.</td>
<td></td>
</tr>
<tr>
<td>CHEM 233L</td>
<td>Organic Chemistry I Laboratory</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Principle laboratory operations of organic chemistry, organic synthesis, and spectroscopy. Concurrent enrollment in CHEM 233 required.</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>CHEM 234</td>
<td>Organic Chemistry II</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>A continuation of Organic Chemistry I. Concurrent enrollment in CHEM 234L required. Prerequisite: CHEM 233/233L.</td>
<td></td>
</tr>
<tr>
<td>CHEM 234L</td>
<td>Organic Chemistry II Laboratory</td>
<td>1 hour</td>
</tr>
<tr>
<td>CHEM 270</td>
<td>Topics in Chemistry</td>
<td>1-3 hours</td>
</tr>
<tr>
<td></td>
<td>Special topics in chemistry appropriate for lower division credit. May be repeated with different emphases for up to six hours of credit.</td>
<td></td>
</tr>
<tr>
<td>CHEM 310</td>
<td>Capstone I: Research Seminar</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>The student will choose a topic for research and conduct a literature survey of that topic. Preliminary results and a plan for conducting further independent research on the topic will be presented in oral and written form during the semester. Normally taken during the student’s Junior year.</td>
<td></td>
</tr>
<tr>
<td>CHEM 320</td>
<td>Supervised Study in Laboratory and Field Methods</td>
<td>1-2 hours</td>
</tr>
<tr>
<td></td>
<td>Students will prepare, supervise, and evaluate laboratory exercises under the direction of faculty members. Designed to give students practical experience teaching in the laboratory setting. Sophomore or higher status required.</td>
<td></td>
</tr>
<tr>
<td>CHEM 332</td>
<td>Analytical Instrumentation</td>
<td>2 hours</td>
</tr>
<tr>
<td></td>
<td>A one-semester course in basic instrumentation with emphasis on the clinical and commercial setting. Prerequisites: CHEM 132/132L or 140/140L, and 231/231L. Concurrent enrollment in CHEM 332L required.</td>
<td></td>
</tr>
<tr>
<td>CHEM 332L</td>
<td>Analytical Instrumentation Lab</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Laboratory experience in use and maintenance of scientific equipment. Concurrent enrollment in CHEM 332 required.</td>
<td></td>
</tr>
<tr>
<td>CHEM 341</td>
<td>Analytical Chemistry I</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Principles of modern analytical chemistry. Must be taken concurrently with CHEM 341L. Prerequisite: CHEM 132/132L.</td>
<td></td>
</tr>
<tr>
<td>CHEM 341L</td>
<td>Analytical Chemistry I Laboratory</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Laboratory experience in quantitative analysis. Must be taken concurrently with CHEM 341.</td>
<td></td>
</tr>
<tr>
<td>CHEM 342</td>
<td>Analytical Chemistry II</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Emphasis on instrumental and radioisotopic analysis. Must be taken concurrently with CHEM 342L. Prerequisite: CHEM 341/341L.</td>
<td></td>
</tr>
<tr>
<td>CHEM 342L</td>
<td>Analytical Chemistry II Laboratory</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Laboratory experience involving the use of quantitative instrumentation. Must be taken concurrently with CHEM 342.</td>
<td></td>
</tr>
<tr>
<td>CHEM 390</td>
<td>Internship in Chemistry</td>
<td>1-12 hours</td>
</tr>
<tr>
<td></td>
<td>Provides practical experience as a chemist in government, business, or industry. Open to upper division students majoring in the area of chemistry. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.</td>
<td></td>
</tr>
<tr>
<td>CHEM 400</td>
<td>Independent Study or Research</td>
<td>1-3 hours</td>
</tr>
<tr>
<td></td>
<td>Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and School Dean is required.</td>
<td></td>
</tr>
</tbody>
</table>
CHEM 401  Capstone II: Senior Research  Credit 2 hours
Independent research projects based on the results presented in CHEM 310. Data collection, analysis, and presentation of scientific papers. Taken during the student’s Junior or Senior year. May be repeated for a total of up to six hours of credit. Prerequisite: CHEM 310.

CHEM 410  Capstone III: Senior Research Thesis  Credit 1 hour
Research thesis is completed and presented at the Nebraska Academy of Sciences or other regional or national scientific forum approved by the faculty. Required field trip in late April. Normally taken during the student’s Senior year. Prerequisite: CHEM 401.

CHEM 412  Biotechnology  Credit 3 hours
Hands-on procedures with discussions and readings to provide theoretical understanding and historical background of biotechnology work. Prerequisite or co-requisite: BIOL 332 or CHEM 435/435L and consent of instructor.

CHEM 417  Topics in Chemistry  Credit 1-3 hours
Designed to meet the needs of students in a special area of interest. May be repeated for up to 6 hours.

CHEM 419  Special Topics in Chemistry  Credit 1-3 hours
Offered to meet special needs of chemistry majors. May be repeated.

CHEM 430  Inorganic Chemistry  Credit 3 hours
Advanced principles of inorganic chemistry.

CHEM 433  Environmental Chemistry  Credit 3 hours
Chemical processes that influence the environment, including processes which affect the quality and use of land, water, and atmosphere. Focuses on topics of current concern. Concurrent enrollment in CHEM 433L. Prerequisite: CHEM 132/132L or CHEM 140/140L.

CHEM 433L  Environmental Chemistry Laboratory  Credit 1 hour
Laboratory experience. Concurrent enrollment in CHEM 433 required.

CHEM 435  Biochemistry  Credit 3 hours
Components and reactions of living matter. Topics include metabolism of major macromolecules including carbohydrates, lipids, proteins, and nucleic acids. Enzyme function and regulation will be studied. Concurrent enrollment in BIOL 435L recommended. Prerequisite: CHEM 231/231L or CHEM 234/234L.

CHEM 435L  Biochemistry Laboratory  Credit 1 hour
Accompanies Biochemistry. Concurrent enrollment in 444 required.

CHEM 444  Physical Chemistry  Credit 3 hours
Fundamental principles of thermodynamics, kinetics, and quantum mechanics as related to chemical concepts. Concurrent enrollment in CHEM 444L required. Prerequisites: CHEM 132/132L, and either MATH 138 or MATH 151.

CHEM 444L  Physical Chemistry Laboratory  Credit 1 hour
Laboratory experience. Concurrent enrollment in CHEM 444 required.

CHEM 464  Physical Chemistry II  Credit 3 hours
Fundamental principles of kinetics, and quantum mechanics as related to chemical concepts. Prerequisites: CHEM 444/444L and MATH 252.
## GEOSCIENCE

**GEOS 110  Careers in Science**  
Credit 1 hour  
Introduction for Physical Sciences majors to career options. Students will conduct independent research of selected firms or agencies. A required field trip to a major metropolitan area will provide knowledge opportunities and challenges of the technical job market.

**GEOS 130  Earth Science**  
Credit 3 hours  
Introductory survey of the four earth sciences; geology, oceanography, meteorology, and astronomy. Designed to help non-scientists gain a greater appreciation of the global physical environment, and to understand interactions of society with that environment. One or more field trips may be required. Credit cannot be applied toward an earth science subject endorsement, physical science major, or any geosience minor.

**GEOS 137  Environmental Geology**  
Credit 3 hours  
Considers effects of human interaction with the physical environment, both in terms of natural phenomena such as earthquakes and floods, which affect human lives, and resource use, in which humans change their environment. One or more field trips will be required.

**GEOS 231  Physical Geology**  
Credit 3 hours  
Introduction to the fundamentals and language of physical geology, to aid in understanding the solid Earth, its origin, constituents, and surficial features, and the appreciation of the dynamic nature of our planet. Concurrent enrollment in GEOS 231L required.

**GEOS 231L  Physical Geology Laboratory**  
Credit 1 hour  
Laboratory exercises will introduce the tools geologists use to interpret Earth processes: minerals and rocks, maps, and aerial photographs. One or more field trips will be offered. Concurrent enrollment in GEOS 231 required.

**GEOS 234  History of the Earth System**  
Credit 3 hours  
Highlights changes through time in the Earth system, including the solid Earth, the oceans and water on land, evolution of the atmosphere, and evolution of life as seen through the fossil record. The systems approach seeks out and analyzes interactions between these different components. Concurrent enrollment in GEOS 234L required.

**GEOS 234L  History of the Earth System Laboratory**  
Credit 1 hour  
Laboratory exercises will introduce the tools used to understand changes in the Earth system through time. Includes identification of the major fossil groups, and analysis of geologic, oceanographic, atmospheric and paleontologic data. Taken concurrently with GEOS 234.

**GEOS 270  Topics in Geoscience**  
Credit 1-3 hours  
Special topics appropriate for lower division credit. May be repeated with different emphases for up to six hours of credit.

**GEOS 310  Capstone I: Research Seminar**  
Credit 1 hour  
The student will choose a topic for research and conduct a literature survey of that topic. Preliminary results and a plan for conducting further independent research on the topic will be presented in oral and written form during the semester. Normally taken during the student's Junior year.

**GEOS 320  Supervised Study in Laboratory and Field Methods**  
Credit 1-2 hours  
Students will prepare, supervise, and evaluate laboratory and field exercises under the direction of faculty members. Designed to give students practical experience teaching in the laboratory and field setting.
GEOS 321  Introduction to GPS  Credit 1 hour
Principles and applications of the global positioning system. Emphasis is on mapping and other uses applied to geoscience field problems. Field trips may be required.

GEOS 322  Introduction to GIS  Credit 2 hours
Principles and applications of geographic information systems with emphasis on ArcView® software. Students will address solutions to real-world problems using Geographic Information Systems. Field trips may be required. Recommended prerequisite: GEOS 321.

GEOS 337  Paleontology  Credit 3 hours
A systematic survey of invertebrate phyla and vertebrate classes most important in the fossil record. Concurrent enrollment in GEOS 337L required. Prerequisite: GEOS 234/234L or approval of instructor.

GEOS 337L  Paleontology Laboratory  Credit 1 hour
Examination of fossil invertebrates and vertebrates in laboratory and field. Concurrent enrollment in GEOS 337 required.

GEOS 338  Rocks and Minerals  Credit 3 hours
Introduction to mineralogy, and optical mineralogy in the context of rocks and interpretation of rock-forming environments. Possibly one or more field trips required. Prerequisite: GEOS 231/231L or approval of instructor.

GEOS 390  Internship in Geoscience  Credit 1-12 hours
Provides practical experience as a geoscientist in government, business, or industry. Open to upper division students majoring in the area of geoscience. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

GEOS 400  Independent Study or Research  Credit 1-3 hours
Study or research in an geoscience area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and School Dean is required.

GEOS 401  Capstone II: Senior Research  Credit 2 hours
Independent research projects based on the results presented in GEOS 310. Data collection, analysis, and presentation of scientific papers. Normally taken during the student’s Junior or Senior year. May be repeated for a total of up to six hours of credit. Prerequisite: GEOS 310.

GEOS 410  Capstone III: Senior Research Thesis  Credit 1 hour
Research thesis is completed and presented at the Nebraska Academy of Sciences or other regional or national scientific forum approved by the faculty. Required field trip in late April. Normally taken during the student’s Senior year. Prerequisite: GEOS 401.

GEOS 430  Special Topics in Geoscience  Credit 1-3 hours
To meet special needs of Geoscience students. May be repeated with different topics and approval of instructor for a total of 6 credit hours.

GEOS 431  Geology of Water Resources  Credit 3 hours
An introduction to the origin and nature of groundwater, its interaction with surface water, geological methods of groundwater exploration, and factors affecting water supply and quality. One or more field trips required.

GEOS 432  Structural Geology  Credit 3 hours
Description and analysis of geologic structures and the regional and global tectonic forces that produce them. Possibly one or more field trips required. Prerequisite: GEOS 231/231L or approval of instructor.
GEOS 435  Field Experience in Geoscience  Credit 1-3 hours
         Typically a one to three week workshop. Field excursions to study major geologic features and provinces in North America or elsewhere. Prerequisite: Approval of Instructor.

GEOS 436  Field Excavation and Procedures  Credit 1-3 hours
         A summer workshop designed to give the student field experience in the development of paleontological sites. Prerequisite: Approval of Instructor.

GEOS 438  Petroleum Geology  Credit 3 hours
         The origin, characteristics, occurrence, exploration, and development of petroleum. Possibly one or more field trips. Prerequisite: GEOS 231/231L or approval of instructor.

GEOS 439  Sedimentology and Stratigraphy  Credit 3 hours
         The origin and characteristics of sedimentary rocks. Prerequisite: GEOS 231/231L and 234/234L; GEOS 338 recommended; or approval of instructor. Concurrent enrollment in GEOS 439 required.

GEOS 439L Sedimentology and Stratigraphy Laboratory  Credit 1 hour
         Laboratory and field studies of sediments and sedimentary rocks. Concurrent enrollment in GEOS 439 required.

PHYS 110  Careers in Science  Credit 1 hour
         Introduction for Physical Sciences majors to career options. Students will conduct independent research of selected firms or agencies. A required field trip to a major metropolitan area will provide knowledge of opportunities and challenges of the technical job market.

PHYS 135  Physical Science  Credit 3 hours
         An integrated course in physical sciences including astronomy, earth science, geology, physics, and chemistry.

PHYS 151  College Physics I  Credit 4 hours
         Principles of mechanics, sound, thermodynamics, and fluid mechanics. Concurrent enrollment in PHYS 151L required. Prerequisites: MATH 135, 138 or 142 AND high school trigonometry or MATH 134.

PHYS 151L College Physics I Laboratory  Credit 1 hour
         Laboratory exercises in College Physics I. Concurrent enrollment in PHYS 151 required.

PHYS 152  College Physics II  Credit 4 hours
         Principles of electricity, magnetism, light, optics and modern physics. Concurrent enrollment in PHYS 152L required. Prerequisites: MATH 135, 138, or 142 AND either high school trigonometry or MATH 134.

PHYS 152L College Physics II Laboratory  Credit 1 hour
         Laboratory exercises in College Physics II. Concurrent enrollment in PHYS 152 required.

PHYS 230  Introduction to Physics  Credit 3 hours
         Introduction to the concepts of Physics, including selected topics in mechanics, properties of matter, heat, sound, electricity & magnetism, light, and nuclear physics. Designed to address the needs of the non-physics major. Not for credit towards physical science major or any physical science minor.

PHYS 241  University Physics I  Credit 4 hours
         The principles of mechanics, heat and sound. Differential and integral calculus applied. Concurrent enrollment in PHYS 241L required. Prerequisite: MATH 151.

PHYS 241L University Physics Laboratory I  Credit 1 hour
         Laboratory exercises in University Physics I. Concurrent enrollment in PHYS 241 required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 242</td>
<td>University Physics II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Principles of magnetism, electricity, and optics. Differential and integral</td>
<td></td>
</tr>
<tr>
<td></td>
<td>calculus applied. Concurrent enrollment in PHYS 242L required. Prerequisite:</td>
<td></td>
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<tr>
<td></td>
<td>MATH 151 and PHYS 241/241L.</td>
<td></td>
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<tr>
<td>PHYS 242L</td>
<td>University Physics Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Laboratory exercises in University Physics II. Concurrent enrollment in PHYS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>242 required.</td>
<td></td>
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<tr>
<td>PHYS 251</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Systems of force, static equilibrium, friction, center of gravity, moment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>of inertia, vector algebra, and central forces. Prerequisites: PHYS 151 or</td>
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<tr>
<td></td>
<td>241, and MATH 151.</td>
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</tr>
<tr>
<td>PHYS 252</td>
<td>Dynamics</td>
<td>3</td>
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<tr>
<td></td>
<td>Displacement force, velocity and acceleration of rigid bodies, kinematics of</td>
<td></td>
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<tr>
<td></td>
<td>planar motion, rotation and moment of inertia, work and energy, impulse and</td>
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<tr>
<td></td>
<td>momentum, and lagrangian dynamics. Prerequisite: PHYS 251.</td>
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<tr>
<td>PHYS 270</td>
<td>Topics in Physics</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>Special topics appropriate for lower division credit in physics. May be</td>
<td></td>
</tr>
<tr>
<td></td>
<td>repeated with different emphases for up to six hours of credit.</td>
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<tr>
<td>PHYS 310</td>
<td>Capstone I: Research Seminar</td>
<td>1</td>
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<tr>
<td></td>
<td>The student will choose a topic for research and conduct a literature survey</td>
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<td></td>
<td>of that topic. Preliminary results and a plan for conducting further</td>
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<td></td>
<td>independent research on the topic will be presented in oral and written</td>
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<tr>
<td></td>
<td>form during the semester. Normally taken during the student’s Junior year.</td>
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<tr>
<td>PHYS 320</td>
<td>Supervised Study in Laboratory and Field Methods</td>
<td>1-2</td>
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<tr>
<td></td>
<td>Students will prepare, supervise, and evaluate laboratory exercises under</td>
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<td></td>
<td>the direction of faculty members. The course is designed to give students</td>
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<td></td>
<td>practical experience teaching in the laboratory setting.</td>
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<tr>
<td>PHYS 330</td>
<td>Physical Science for the Elementary and Middle Grades Teacher</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A laboratory oriented course intended to strengthen the physical science</td>
<td></td>
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<tr>
<td></td>
<td>background of the elementary and middle grades teacher.</td>
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</tr>
<tr>
<td>PHYS 333</td>
<td>Astronomy</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>A descriptive study of the solar system, stars, and galactic systems,</td>
<td></td>
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<tr>
<td></td>
<td>including theories of the origin of the universe and the solar system.</td>
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<td></td>
<td>Concurrent enrollment in PHYS 333L required.</td>
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<tr>
<td>PHYS 333L</td>
<td>Astronomy Laboratory</td>
<td>1</td>
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<tr>
<td></td>
<td>Exercises in Astronomy. Held in the evening either outdoors or in the</td>
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<tr>
<td></td>
<td>planetarium. Concurrent enrollment in PHYS 333 required.</td>
<td></td>
</tr>
<tr>
<td>PHYS 334</td>
<td>Meteorology</td>
<td>3</td>
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<tr>
<td></td>
<td>The physical behavior of the atmosphere including the causes of weather and</td>
<td></td>
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<tr>
<td></td>
<td>the elements of forecasting.</td>
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</tr>
<tr>
<td>PHYS 370a</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Special relativity, quantum mechanics, nuclear physics, atomic physics,</td>
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<tr>
<td></td>
<td>and additional topics concerning physics in the twentieth century. Prerequisite:</td>
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<tr>
<td></td>
<td>PHYS 152 or 242.</td>
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</tr>
<tr>
<td>PHYS 370c</td>
<td>Modern Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Experiments dealing with modern physics.</td>
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<tr>
<td>PHYS 370d</td>
<td>Scientific Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A computer based laboratory designed to familiarize students with physical</td>
<td></td>
</tr>
<tr>
<td></td>
<td>science related computer applications.</td>
<td></td>
</tr>
</tbody>
</table>
PHYS 370c  Math for the Physical Sciences  Credit 3 hours
The application of analytic geometry, calculus, vectors, and partial differential equations to the solutions of problems in the physical sciences. Prerequisite: MATH 252.

PHYS 390  Internship in Physics  Credit 1-12 hours
Provides practical experience as a physicist in government, business, or industry. Open to upper division students majoring in the area of physics. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

PHYS 400  Independent Study or Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of Instructor and Dean is required.

PHYS 401  Capstone II: Senior Research  Credit 2 hours
Independent research projects based on the results presented in PHYS 310. Data collection, analysis, and presentation of scientific papers. Normally taken during the student’s Junior or Senior year. May be repeated for a total of up to six hours of credit. Prerequisite: PHYS 310.

PHYS 410  Capstone III: Senior Research Thesis  Credit 1 hour
Research thesis is completed and presented at the Nebraska Academy of Sciences or other regional or national scientific forum approved by the faculty. Required field trip in late April. Normally taken during the student’s Senior year. Prerequisite: PHYS 401.

PHYS 430  Topics in Physics  Credit 1-3 hours
A course on selected science topics. Course content will vary to meet the special needs of students. The course may involve classroom and/or field oriented activity. Credit is dependent upon length of course and depth of study. May be repeated with different topics.

PHYS 434  Mechanics  Credit 3 hours
Principles of Newtonian mechanics including Lagrangian and Hamiltonian formalism. Prerequisite: PHYS 241.

PHYS 435  World Environmental Issues  Credit 3 hours
Exploration of world environmental problems. Discussion participation setting emphasizes library research, accessing information, critical analysis of media news, and information and global prescriptive measures. The course culminates in student action plans that may effect environmental change.

PHYS 444  Thermodynamics  Credit 3 hours
Principles of statistical physics and applications to the laws of thermodynamics. Prerequisite: MATH 151 and PHYS 151 or 241.

PHYS 454  Electricity and Magnetism I  Credit 3 hours
Special methods in electromagnetic theory, static fields, introduction to Maxwell’s equations, and electric fields in the presence of matter. Prerequisite: PHYS 152 or 242.

PHYS 464  Quantum Mechanics I  Credit 3 hours
Current methods in quantum mechanics, wave nature of matter, symmetry laws, and development of state function.

PHYS 471d  Electricity and Magnetism II  Credit 3 hours
Dynamic fields, magnetic fields in the presence of matter, propagation of electromagnetic radiation, and advanced use of Maxwell’s equations. Prerequisite: PHYS 454.
PHYS 471e     Optics                  Credit 1 hour
A study of optical phenomena including ray optics and wave optics.

PHYS 471g     Quantum Mechanics II  Credit 3 hours
Time development of wave functions, perturbation theory, spin functions, the hydrogen atom, and the WKB approximation. Prerequisite: PHYS 464.

PHYS 471h     Advanced Astronomy     Credit 1-3 hours
A quantitative study of topics introduced in PHYS 333. Includes astrophotography, deep sky viewing, planetarium. Prerequisite: PHYS 333/333L.

PHYS 471j     Independent Study or Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and School Dean is required.

PHYS 471k     Advanced Physics Laboratory  Credit 1-3 hours
Experiments in optics, electronics, mechanics, and modern physics. Credit 1 or 2 hours each semester, with maximum of 4 hours total allowable.

PHYS 471m     Topics in Physics       Credit 1-3 hours
Designed to meet the needs of students in a special area of interest. May be repeated for up to six hours.

DEPARTMENT OF SOCIAL SCIENCES AND JUSTICE STUDIES

JUSTICE STUDIES

The Justice Studies program provides the student with instruction in Criminal Justice and Legal Studies. The program focuses on the building of knowledge in the areas of law enforcement, criminology, law, paralegal, courts, juvenile justice, forensic sciences, and corrections from a social science perspective to prepare students for careers in law related fields.

Student Learning Outcomes – Criminal Justice

The Criminal Justice interdisciplinary curriculum prepares students for professional criminal justice careers; for graduate work in areas such as political science, sociology, and criminal justice; and for various professional schools including law, social work, public administration and business administration. Students will:

• Develop a working knowledge of the criminal justice system.
• Describe the causes of deviant and criminal behavior and the correctional responses to such behavior.
• Utilize basic research and research methodologies as they relate to the field of criminal justice.
• Demonstrate proficiency in professional courses that prepare them for a variety of careers in federal, state, and local criminal justice agencies.

Student Learning Outcomes – Legal Studies

The Legal Studies Program prepares students for graduate work in Legal Studies or law school. The Legal Studies Program also prepares non-lawyer personnel to perform support services for professionals in law firms, government offices, banks, trust departments, real estate offices, accounting firms, and other law related activities. Under a lawyer’s supervision, Legal Assistants or Paralegals are expected to perform a wide variety of functions. These include interviewing clients and witnesses, researching legal authority, analyzing factual and legal situations, preparing documents and forms, and managing offices. Legal Studies majors will:

• Demonstrate a comprehensive understanding of selected areas of substantive and procedural law.
• Acquire critical thinking, organizational, research, computer literacy, writing, oral communication, and interpersonal skills.
• Demonstrate an ability to analyze problems, to formulate and evaluate logical alternative solutions, and to construct and evaluate logical arguments in support of specific positions.
• Demonstrate an understanding of the paralegal profession and its ethical dimensions.
• Demonstrate appropriate and effective legal research and writing skills, including the ability to prepare documents, forms and pleadings relevant to private and government practice, to locate and synthesize information and to draw research conclusions.
• Demonstrate a basic knowledge of the fundamentals of law office management and organization, accounting systems, and the role performed by lawyers and non-lawyers.

Honors Seminars

The Justice Studies Department offers Honors Seminars within the major. Students with a 3.25 grade point average or above are eligible to take part in the Honors Seminars. Students completing all 12 hours of the program will receive special graduation recognition.

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN JUSTICE STUDIES-CRIMINAL JUSTICE: A student must complete the following program in addition to the General Studies requirements:

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 231</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 232</td>
<td>Police in America</td>
<td>3</td>
</tr>
<tr>
<td>CJ 236</td>
<td>Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CJ 336</td>
<td>Multicultural Issues in CJ</td>
<td>3</td>
</tr>
<tr>
<td>CJ 337</td>
<td>Introduction to Law</td>
<td>3</td>
</tr>
<tr>
<td>CJ 339</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CJ 434</td>
<td>Senior Seminar in CJ</td>
<td>3</td>
</tr>
<tr>
<td>CJ 436</td>
<td>Seminar: Comparative CJ</td>
<td>3</td>
</tr>
<tr>
<td>CJ 441</td>
<td>Ethical Issues in CJ</td>
<td>3</td>
</tr>
<tr>
<td>CJ 444</td>
<td>Law Enforcement Focus*</td>
<td>6</td>
</tr>
<tr>
<td>CJ 445</td>
<td>Law Focus*</td>
<td>6</td>
</tr>
<tr>
<td>CJ 450</td>
<td>Juvenile Justice Focus*</td>
<td>6</td>
</tr>
<tr>
<td>CJ 460</td>
<td>Corrections Focus*</td>
<td>6</td>
</tr>
<tr>
<td>CJ 470</td>
<td>Forensic Sciences Focus*</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>57</td>
</tr>
</tbody>
</table>

*Focus Areas: A student must complete six (6) hours in each of the following five areas:

- **Law Enforcement:** CJ 233, 238, 321, 435, 437
- **Law:** CJ 331, 333, 334, 433, 438
- **Criminology:** CJ 434, 338, 430, 431, 443
- **Forensic Sciences:** CJ 235, 323, 444, 445, 450
- **Criminology:** CJ 322, 332, 432, 439, 440

Students who wish to complete an emphasis area in the program (Criminal Justice with an emphasis in Law Enforcement; Criminal Justice with an emphasis in Law; Criminal Justice with an emphasis in Corrections; Criminal Justice with an emphasis in Juvenile Justice; Criminal Justice with an emphasis in Forensic Sciences) must complete four courses listed in the emphasis focus area.

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN JUSTICE STUDIES-LEGAL STUDIES: A student must complete the following program in addition to the General Studies requirements:

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTG 241</td>
<td>Accounting Principles I</td>
<td>3</td>
</tr>
<tr>
<td>IST 130</td>
<td>Introduction to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>LS 231</td>
<td>Introduction to Legal Studies</td>
<td>3</td>
</tr>
<tr>
<td>LS 232</td>
<td>Litigation/Civil Procedures</td>
<td>3</td>
</tr>
<tr>
<td>LS 238</td>
<td>Legal Research &amp; Writing I</td>
<td>3</td>
</tr>
<tr>
<td>LS 337</td>
<td>Introduction to Law</td>
<td>3</td>
</tr>
<tr>
<td>LS 338</td>
<td>Legal Research &amp; Writing II</td>
<td>3</td>
</tr>
<tr>
<td>LS 390</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>LS 430</td>
<td>Ethics/Professional Responsibility</td>
<td>3</td>
</tr>
<tr>
<td>LS 436</td>
<td>Commercial Focus*</td>
<td>9</td>
</tr>
<tr>
<td>LS 440</td>
<td>Litigation Focus*</td>
<td>9</td>
</tr>
<tr>
<td>LS 445</td>
<td>Public Law Focus*</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>54</td>
</tr>
</tbody>
</table>
**Focus Areas:** A student must complete nine (9) hours in each of the following three areas:

**Commercial:** LS 332, 343, 434, 435, 444  
**Litigation:** LS 233, 331, 334, 432, 433

**Public Law:** LS 235, 236, 333, 431, 438

**MINORS in Justice Studies**

**Criminal Justice:** A student must complete the following program in addition to the General Studies requirements and a major in another area.

CJ 231  Introduction to Criminal Justice ........... 3
CJ 232  Police in America ................................ 3
CJ 236  Introduction to Corrections .................... 3
CJ 337  Introduction to Law ................................ 3

Plus three hours from three of the focus areas  
(Law Enforcement, Law, Corrections, Juvenile Justice, or Forensic Sciences) as outlined in the description of the Criminal Justice major program .......................... 9

**Total** 21

**Legal Studies:** Students must complete the following program in addition to the General Studies requirements and a major in another area.

LS 231  Introduction to Legal Studies .................... 3
LS 238  Legal Research & Writing I ........................... 3
LS 337  Introduction to Law ................................... 3
LS 436  Ethics/Professional Responsibility .................... 3

Plus three hours in each of the focus areas  
(Commercial, Litigation, and Public Law) as outlined in the description of the Legal Studies major program. .................................................. 9

**Total** 21

**Academic Certificate Program**

**Paralegal:** A student may be awarded a Certificate in Paralegal Studies upon successful completion of the following requirements:

LS 231  Introduction to Legal Studies .................... 3  
LS 238  Legal Research and Writing I .................... 3
LS 338  Legal Research and Writing II .................... 3
LS 436  Ethics/Professional Responsibility .................... 3
GS 433  Elective I* .............................................. 3
GS 436  Elective II** .......................................... 6

**Total** 21

*Elective I: Choose three (3) hours from LS 232, 233, 332, 434.

**Elective II: Choose six (6) hours from LS 235, 236, 331, 334, 433, 431, 432, 433, 435

**CRIMINAL JUSTICE**

**COURSE DESCRIPTIONS**

**CJ 231  Introduction to Criminal Justice**  
Credit 3 hours  
Overview of the process of American criminal justice and the agencies that contribute to it, focusing on the structure, function, and decision-making processes of agencies that deal with the management and control of crime and criminal offenders-police, courts, and correctional systems.

**CJ 232  Police in America**  
Credit 3 hours  
Roles of the police in American society, including nature of police organizations and police work and seeks to place these issues in a broader social, political, and legal framework. Focuses on the origin of policing, the nature of police organizations and police work, and patterns of relations between the police and the public. Prerequisite: CJ 231.

**CJ 233  Law Enforcement Organization and Administration**  
Credit 3 hours  
Structure and function of a variety of law enforcement organizations including city, county, state, and federal jurisdictions. Theories of both leadership and organizational structure and the complex relationship between leadership and organizational goals, efficiency, expectations, and employer/employee relations will be explored. Prerequisite: CJ 231.
CJ 234  Correctional Theory and Practice  Credit 3 hours
Overview and critical analysis of contemporary correctional philosophy, theory, and practice. Establishes the conceptual basis for understanding sanctions and the philosophical justifications for punishment. Historical development, theories, and institutions of punishment and social control will be discussed.

CJ 235  Fundamentals of Criminal Investigation  Credit 3 hours
Basic theoretical and philosophical underpinnings necessary to understand the investigatory process. Overview of the application of the scientific method to documentation and management of the crime scene. Particular emphasis is placed on the role of first respondents to a crime scene, chain of custody for crime scene evidence, and interacting with victims, witnesses, and potential perpetrators. Prerequisite: CJ 231.

CJ 236  Introduction to Corrections  Credit 3 hours
Examines the historical context, philosophical concepts and major developments which have shaped corrections. Sentencing options, community and institutional correctional approaches and programs, the role of corrections in the larger criminal justice system and contemporary correctional issues will be examined. Prerequisite: CJ 231.

CJ 238  Survey of Private Security  Credit 3 hours
Focuses on the increasing role private security plays in the field of crime prevention, detection, and investigation. Forms of private security including armed protective services, retail loss prevention, and security surveys, issues related to the manufacture, sale, installation, and effectiveness of a variety of security system application, including fire prevention, protection of trade secrets, perimeter security, and workplace safety will be explored.

CJ 321  Police and Community Relations  Credit 3 hours
History and current issues of the relationship between police and their diverse communities, cross-cultural issues, interpersonal skills, changing demographics, political issues, and an appreciation of the difficult balance between policing and serving a community. Approaches to improving police and community relations will be explored. Prerequisite: CJ 231 and 232.

CJ 322  Youth Gangs  Credit 3 hours
Introduction to the study of gangs and subcultures among youth in American society. The history and development of gangs, relevant theory, variations in gang practices by race, class, gender, and intervention strategies.

CJ 323  Forensic Sciences I  Credit 3 hours
An overview of scientific crime detection. Students are introduced to theories and applications related to the collection, analysis, and interpretation, fingerprint evidence, questioned documents, soil, fibers, firearm, wound, and impression evidence. Emerging technologies that aid in the interpretation of crime scene evidence. Prerequisite: CJ 231.

CJ 331  Criminal Law  Credit 3 hours
Elements and proof of crimes which are of frequent concern in law enforcement with reference to principle rules of criminal liability. Importance of criminal law at the enforcement level is considered from crime prevention to courtroom appearance. Prerequisite: CJ 231. Cross-listed as LS 331.

CJ 332  Juvenile Delinquency  Credit 3 hours
History and concept of delinquency, nature and extent of delinquency, theories of delinquency, and environmental influences of delinquency, including child abuse and neglect, school-based crime, gang control efforts, and the relationship between delinquency and drug abuse. Prerequisite: CJ 231. Cross-listed as SOC 332.

CJ 333  Judiciary and Constitutional Law  Credit 3 hours
American law in action, the development of modern jurisprudence, structure and function of federal and state judicial systems, and the role of the legislature in the legal process. Development of the American governmental system through judicial interpretation of the Constitution. Cross-listed as LS 333 and PS 333.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 334</td>
<td>Criminal Procedures</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Procedural problems that occur in processing an individual through the criminal justice system with special emphasis on search and seizure. Cross-listed as LS 334.</td>
<td></td>
</tr>
<tr>
<td>CJ 336</td>
<td>Multicultural Issues in CJ</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Involvement and role of minorities in crime and in the Criminal Justice System with special focus on multicultural issue in theories of crime, in American law, and problems as they relate to Criminal Justice.</td>
<td></td>
</tr>
<tr>
<td>CJ 337</td>
<td>Introduction to Law</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Structures of our legal system, and considers the economic, social, and political implications as they influence the development of a rule of law, historical and contemporary legal controversies. Cross-listed as LS 337 and PS 337.</td>
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<tr>
<td>CJ 338</td>
<td>Community Based Corrections</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Philosophical foundations of community-based corrections, including social and political forces which shape this philosophy, as well as the workings of present day practices and the ramifications of community-based corrections. Focuses on probation, parole, and other current community based strategies for dealing with the offender. Prerequisites: CJ 231 and CJ 236.</td>
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</tr>
<tr>
<td>CJ 339</td>
<td>Criminology</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Introduction to the nature and causes of criminal behavior. Theories of crime causation ranging through biological, psychological, sociological, and cultural theories are discussed in addition to the historical influences and thought which have led to criminology’s development as a contemporary science. Cross-listed as SOC 339.</td>
<td></td>
</tr>
<tr>
<td>CJ 390</td>
<td>Internship in Criminal Justice</td>
<td>1-12 hours</td>
</tr>
<tr>
<td></td>
<td>Practical experience in a criminal justice agency such as law enforcement courts or corrections. Open to upper division students majoring in the area of criminal justice. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.</td>
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</tr>
<tr>
<td>CJ 400</td>
<td>Independent Study or Research</td>
<td>1-3 hours</td>
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<tr>
<td></td>
<td>Faculty-guided research in an area of mutual interest to the student and instructor. Students are responsible for selecting the area of inquiry prior to contacting the instructor. Prerequisite: 15 hours of Criminal Justice and permission of Instructor and Dean.</td>
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<tr>
<td>CJ 430</td>
<td>Topics in Corrections</td>
<td>1-3 hours</td>
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<tr>
<td></td>
<td>Topics selected to meet the needs of students in a special area of interest in corrections. Prerequisite: CJ 236 or permission of Instructor.</td>
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<tr>
<td>CJ 431</td>
<td>Institutional Corrections</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>History and current status of jails and prisons, punishment rationales, institutional programs and procedures, inmates, social structures, the role of correctional officers and contemporary issues. Prerequisites: CJ 231 and CJ 236.</td>
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<tr>
<td>CJ 432</td>
<td>Juvenile Law</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Development of statutory law and constitutional rights for juvenile offenders and the impact of these laws on the juvenile and the juvenile process in the United States. Cross-listed as LS 432.</td>
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<tr>
<td>CJ 433</td>
<td>Rules of Evidence</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Evidence and rules governing the admissibility of evidence in court, and the effect of court decisions on acquisition and admissibility of evidence. Prerequisite: CJ 231 or LS 231. Cross-listed as LS 433.</td>
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</tr>
<tr>
<td>CJ 434</td>
<td>Senior Seminar in CJ</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>This capstone criminal justice course provides students with the opportunity to integrate and synthesize previous coursework in criminal justice. Drawing on the foundational and core courses, students will apply theory and knowledge to current problems in the justice system. Prerequisite: Criminal Justice senior or permission of instructor.</td>
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<tr>
<td>Course</td>
<td>Title</td>
<td>Credit Hours</td>
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<tr>
<td>CJ 435</td>
<td>Drugs, Alcohol and Crime</td>
<td>3</td>
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<tr>
<td></td>
<td>Investigation of the relationship of drugs and alcohol on the nature and incidence of crime with focus on issues for police, courts and corrections.</td>
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<tr>
<td>CJ 436</td>
<td>Seminar: Comparative CJ</td>
<td>3-6</td>
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<tr>
<td></td>
<td>Focuses on the major criminal justice systems of the world, with special emphasis on Western Europe, the international Criminal Justice system, and terrorism. A field trip may be required.</td>
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<tr>
<td>CJ 437</td>
<td>Topics in Law Enforcement</td>
<td>1-3</td>
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<tr>
<td></td>
<td>Topics selected to meet the needs of students in a special area of interest in law enforcement. Prerequisite: CJ 232 or permission of Instructor.</td>
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<tr>
<td>CJ 438</td>
<td>Topics in Law</td>
<td>1-3</td>
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<tr>
<td></td>
<td>Topics selected to meet the needs of students in a special area of interest in law. Prerequisite: CJ 337 or LS 337, or permission of Instructor. Cross-listed as LS 438.</td>
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<tr>
<td>CJ 439</td>
<td>Juvenile Offenders</td>
<td>3</td>
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<tr>
<td></td>
<td>Various types of juvenile offenses and offenders that are involved in the juvenile justice system. The history and development of traditional methods for responding to juvenile offenders will be covered, including intervention and treatment methods, police work with juveniles, the juvenile court process, and correctional programs and facilities.</td>
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<tr>
<td>CJ 440</td>
<td>Topics in Juvenile Justice</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>Topics selected to meet the needs of students in a special area of interest in juvenile justice.</td>
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<tr>
<td>CJ 441</td>
<td>Ethical Issues in CJ</td>
<td>3</td>
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<tr>
<td></td>
<td>Examines ethical issues in the Criminal Justice system. Aids students in the comprehension of diverse ethical issues in both the social practice of criminal justice and the concerns faced by its professional practitioners.</td>
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<tr>
<td>CJ 442</td>
<td>Honors in Criminal Justice</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>Selected courses and topics designed for upper division students with a grade point average of 3.25 in all course work. May be repeated up to a maximum of twelve (12) semester hours. Prerequisite: Permission of Instructor. Cross-listed as LS 442.</td>
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<tr>
<td>CJ 443</td>
<td>Correctional Law</td>
<td>3</td>
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<td></td>
<td>Examines major legal issues surrounding sentencing, incarceration, probation, parole, pardon, and related topics. Provides a general overview of the law relating to persons in prison, jail or within the corrections system. Also investigates how civil and criminal law affects facilities, community-based corrections, and personnel working in the correctional system.</td>
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<tr>
<td>CJ 444</td>
<td>Forensic Sciences II</td>
<td>3</td>
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<td></td>
<td>Theories, techniques, and applications of advanced forensic methodologies to the collection, preservation, and interpretation of crime scene evidence. Included will be an examination of DNA evidence, forensic odontology, forensic entomology, serology, fiber and hair, toxicology, and the technologies utilized in interpreting this data. Prerequisite: CJ 235 or 323.</td>
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<tr>
<td>CJ 445</td>
<td>Forensic Evidence</td>
<td>3</td>
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<tr>
<td></td>
<td>Comprehensive understanding and analysis of legal, ethical, and practical issues involving forensic evidence in the courtroom with a special emphasis on scientific evidence and its admissibility. Special attention is given to emerging forensic evidence techniques and their use in the justice system specifically in civil and criminal trials.</td>
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<tr>
<td>CJ 450</td>
<td>Topics in Forensic Sciences</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>Topics selected to meet the needs of students in a special area of forensic sciences. Prerequisites: CJ 323 or 444, or permission of Instructor.</td>
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</tbody>
</table>
CJ 447  Applied Issues in Criminal Justice  Credit 1-6 hours
Projects, workshops, field experiences and seminars that focus on a specialized area in Criminal Justice. Permission of instructor is required.

CJ 448  Professional Semester  Credit 1-12 hours
The student will attend a certified law enforcement training academy to obtain certification as a professional law enforcement officer. Admission to the professional semester requires completion of all requirements in the Criminal Justice major. Permission of Instructor and admission by a law enforcement training center.

LEGAL STUDIES

LS 231  Introduction to Legal Studies  Credit 3 hours
A comprehensive overview of the law office environment; a general knowledge of legal assistant and lawyer roles; and an understanding of substantive areas of law, ethics, and legal analysis.

LS 232  Litigation/Civil Procedures  Credit 3 hours
The federal and state rules of civil procedures, including the drafting of complaints, answers, pre-trial motions, interrogatories, depositions and other documents, discovery, jurisdiction, and the aspects of trial practice.

LS 233  Torts  Credit 3 hours
Substantive tort law that is the basis for trial preparation, focusing on a comprehensive understanding of substantive tort law and terminology, preparation of trial notebooks, working with experts, preparing exhibits, researching motions, and drafting jury instructions.

LS 235  Administrative Law  Credit 3 hours
Role and function of administrative agencies in contemporary society. Focuses on agency discretion, rulemaking, enforcement, and decision-making powers. Special emphasis is given to administrative procedures and public rights.

LS 236  Family Law  Credit 3 hours
Substantive law of marriage, divorce, legal separation, child support and custody, property division, decree modification and enforcement, and adoption. Special emphasis is placed on the drafting of documents necessary in family law cases.

LS 238  Legal Research and Writing I  Credit 3 hours
Basic legal research and legal analysis. Focuses on how to locate and read statutes and cases, and exposes students to the IRAC analytical process. Fundamentals of legal writing will be introduced. Special emphasis will be given to computer-aided legal research.

LS 331  Criminal Law  Credit 3 hours
Elements and proof of crimes which are of frequent concern in law enforcement with reference to principal rules of criminal liability. Importance of criminal law at the enforcement level is considered from crime prevention to courtroom appearance. Prerequisite: LS 231 or CJ 231. Cross-listed as CJ 331.

LS 332  The Law of Contracts  Credit 3 hours
Introduces the law of contracts, including the elements of a contract, the formation of contracts, contract interpretation, obligations, third-party contract relationships, breach of contract, and remedies available. Emphasis is placed on drafting and evaluation of contracts.

LS 333  The Judiciary and Constitutional Law  Credit 3 hours
American law in action, the development of modern jurisprudence, structure and function of federal and state judicial systems, and the role of the legislature in the legal process. Development of the American governmental system through judicial interpretation of the Constitution. Cross-listed as CJ 333 and PS 333.
LS 334  Criminal Procedures  Credit 3 hours
Procedural problems that occur in processing an individual through the criminal justice system with special emphasis on search and seizure. Cross-listed as CJ 334.

LS 337  Introduction to Law  Credit 3 hours
Structures of our legal system and considers economic, social, and political implications as they influence the development of a rule of law, historical and present legal controversies will be examined. Cross-listed as CJ 337 and PS 337.

LS 338  Legal Research and Writing II  Credit 3 hours
Advanced research and writing principles including case synthesis, the creation of factual and policy arguments, and counteranalysis. Emphasis is placed upon completion of legal research projects including preparation of interoffice memorandum, court briefs and legal correspondence. Prerequisite: LS 238 or permission of instructor.

LS 343  Commercial Law  Credit 3 hours
Study of the Uniform Commercial Code and related federal and state laws and their relevance to the law office environment and commercial practice. Emphasis is placed on the sale of goods, negotiable instruments, bank deposits and collections, security agreements, and transactions in which personal property, such as equipment, inventory, or accounts receivable, serve as collateral for a debt.

LS 390  Internship in Legal Studies  Credit 1-12 hours
Provides practical experience in a law office, court, judicial office, or other law related agency. Open to upper division students majoring in the area of legal studies. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

LS 400  Independent Study or Research  Credit 1-3 hours
Faculty-guided research in an area of mutual interest to the student and instructor. Students are responsible for selecting the area of inquiry prior to contacting the instructor. Prerequisite: 15 hours of Legal Studies and permission of instructor and Dean.

LS 431  Introduction to Estates and Trusts  Credit 3 hours
Procedures, techniques, substantive law, and the administration of estates and trusts, with special emphasis on the drafting of wills, simple trusts, and pleadings and documents for probated administration.

LS 432  Juvenile Law  Credit 3 hours
Development of statutory law and constitutional rights for juvenile offenders and the impact of these laws on the juvenile and the juvenile process in the United States. Cross-listed as CJ 432.

LS 433  Rules of Evidence  Credit 3 hours
Kinds of evidence and rules governing the admissibility of evidence in court and the effect of court decisions on acquisition and admissibility of evidence. Prerequisites: LS 231 or CJ 231. Cross-listed as CJ 433.

LS 434  Law of Real Estate  Credit 3 hours
Introduction to the substantive law of real property, including legal descriptions, real estate finance, types of ownership, mechanics of transferring ownership, abstracts, title insurance, legal forms, and contract drafting.

LS 435  Law of Business Organizations  Credit 3 hours
Sole proprietorships, partnerships, corporations and limited liability companies, emphasizing the advantages and disadvantages of different business entities and the formation and financial structure of each.

LS 436  Ethics/Professional Responsibility  Credit 3 hours
Ethical considerations in the legal profession, including canon of ethics and ethical standards for Legal Assistants. The course will also focus on client confidentiality, unauthorized practice of the law, tort liability of paralegals, ethical rules governing lawyers, and lawyer’s use of paralegals.
LS 438  Topics in Law  Credit 1-3 hours
Topics selected to meet the needs of students in a special area of interest in law. Prerequisite: LS 337 or CJ 337 or permission of instructor. Cross-listed as CJ 438.

LS 442  Honors in Legal Studies  Credit 1-3 hours
Selected courses and topics designed for upper division students with a grade point average of 3.25 or above in all course work. May be repeated up to a maximum of twelve (12) semester hours. Prerequisite: Permission of Instructor. Cross-listed as CJ 442.

LS 444  Topics in Commercial Law  Credit 3 hours
Topics selected to meet the needs of students in a special area of interest in commercial law. Prerequisite: LS 231 or permission of instructor.

LS 447  Applied Issues in Legal Studies  Credit 1-9 hours
Projects, workshops, field experiences and seminars that focus on a specialized area of Legal Studies. Cross-listed as CJ 447. Permission of instructor is required.

AMERICAN INDIAN STUDIES

Student Learning Outcomes
The objectives of the American Indian Studies discipline are as follows:

- To develop knowledge and understanding of American Indian societies and cultures;
- To develop an understanding of Lakota society and culture; and
- To develop a sensitivity to and appreciation for American Indians’ contemporary circumstances and situations.

MINOR in American Indian Studies
A student must complete the following program in addition to the General Studies requirements and a major in another discipline:

- ANTH 337  People & Cultures of North America  3
- HIST 430  History of the American Indian  3
- GEOG 339  Geography of the Great Plains  3
- Electives from list below  12

Total  21

Electives to be selected from following: AIS 131, 132, 334, 430, 436; ANTH 430, 435; BIOL 448/448L; ENG 435; GEOG 430; and SOC 335.

Academic Certificate Program
A student may be awarded a Certificate in American Indian Studies upon successful completion of the American Indian Studies minor program listed above.

COURSE DESCRIPTIONS

AIS 131  Lakota Language I  Credit 3 hours
Introduction to the Lakota language, with focus on preserving the ancient language of the Lakota, both written and spoken.

AIS 132  Lakota Language II  Credit 3 hours
Continuation of Lakota language study with emphasis on speaking and reading skills.

AIS 334  Lakota Society and Culture  Credit 3 hours
Focus upon the central cultural aspects of the Lakota Sioux, including tribal and political organization, and social mores and norms. Recent changes in Reservation society will be examined.
AIS 430  Topics in American Indian Studies  Credit 3 hours
Special topics in American Indian Studies.

AIS 436  Seminar in American Indian Studies  Credit 3 hours
Designed to meet the specific needs of a group of students. Permission of the Instructor is required.

ANTH 231  Introduction to Cultural Anthropology  Credit 3 hours
Comparative study of a variety of human groups modern and premodern, including analysis of technology, family, form, religion, other aspects of social organization, and cultural change. Methods of cultural anthropology will be discussed. Field trips may be required.

ANTH 337  People and Cultures of North America  Credit 3 hours
Survey of indigenous cultures of North America from prehistory through contemporary societies. Emphasis is placed on the wide range of diversity exhibited by American Indians across the continent. Course content will include prehistoric Native Americans, the contact period, and contemporary American Indian societies.

ANTH 430  Topics in Anthropology  Credit 1-3 hours
Special topical studies that may include: art and religion, Native American culture, impact of technology on culture, agricultural systems, cultures of the Middle East, exploration and cultures, linguistics, and nomadism. Student may repeat the course for a maximum of 9 hours credit. Field research is possible.

ANTH 435  Northern Plains Indian Cultures  Credit 3 hours
Survey of Northern Plains Indian cultures with a focus upon aspects of cultures from both a historical and contemporary perspective, but with emphasis being placed on the contemporary cultures. The impact of modern technology and Euro-American contact on Northern Plains Indians will also be examined as well as the continuing functions of traditional Native beliefs in contemporary social, economic, political, and religious contexts.

APPLIED HISTORY

The Program in Applied History/Museum Studies is a comprehensive interdisciplinary degree, training students to apply the study of history to a professional career in museology and other similar professions.

Student Learning Outcomes
Graduates of the program will develop knowledge and acquire skills to design and build exhibits, accession and catalog artifacts, care for archives, administer a museum, create programming, and market the museum.

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN APPLIED HISTORY: A study must complete the following core, one option, and the General Studies requirements:

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AHIS 231</td>
<td>Introduction to Museums</td>
<td>3</td>
</tr>
<tr>
<td>AHIS 330</td>
<td>Management &amp; Care of Collections</td>
<td>3</td>
</tr>
<tr>
<td>AHIS 331</td>
<td>Exhibit Design</td>
<td>3</td>
</tr>
<tr>
<td>AHIS 333</td>
<td>Museum Administration</td>
<td>3</td>
</tr>
<tr>
<td>AHIS 390</td>
<td>Applied History Internship</td>
<td>6</td>
</tr>
<tr>
<td>HIST 339</td>
<td>Nebraska History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 430</td>
<td>History of the American Indian</td>
<td>3</td>
</tr>
<tr>
<td>HIST 446</td>
<td>The American West, 1500-1890</td>
<td>3</td>
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Total 27

Option I: Cultural and Physical Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 231</td>
<td>Intro to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 337</td>
<td>People &amp; Cultures of North America</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 435</td>
<td>Northern Plains Indian Cultures</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 339</td>
<td>Geography of the Great Plains</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 337</td>
<td>Paleontology</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 436</td>
<td>Field Excavation &amp; Procedures</td>
<td>3</td>
</tr>
<tr>
<td>Electives(to be selected from list below)*</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Total 53
Option II: Museum Management

Core Requirements ........................................................ 27
ACTG 241 Accounting Principles I ......................... 3
ACTG 433 Government & Not-for-Profit Actg ............ 3
MGMT 230 Principles of Management .................... 3

MGMT 330 Organizational Theory & Behavior .......... 3
MKTG 231 Principles of Marketing ......................... 3
MKTG 336 Advertising ............................................. 3
Electives (to be selected from list below)* ................ 8

Total 53

Option III: Art

Core Requirements ........................................................ 27
ART 229 Intro to Graphic Design ......................... 3
ART 329 Graphic Design II .................................. 3
ART 338 Art History Survey I ......................... 3

ART 339 Art History Survey II ......................... 3
ART 340 Twentieth Century Art Survey ................. 3
FCS 341 Textiles ............................................... 3
Electives (to be selected from list below)* .............. 8

Total 53

*Electives to be selected from courses below. Elective courses selected must not duplicate specified requirements within the Option: ACTG 241, 433; ART 229, 329, 338, 339; BIOL 448/448L; FCS 341; GEOG 337, 339; LMS 434; and MKTG 231.

COURSE DESCRIPTIONS

AHIS 231 Introduction to Museums Credit 3 hours
Introduction and survey of the rationale, history, personnel, and types of museums, including ethics of the museum profession.

AHIS 330 Management and Care of Collections Credit 3 hours
Management and care of collections, including the current practices of accessioning, cataloging and preservation of artifacts, as well as legal issues in collections management.

AHIS 331 Exhibit Design Credit 3 hours
History, types, development and current trends of exhibit design. The relationships among collections, interpretation, programming and design will be explored in-depth. Students will also be introduced to the use of the computer in designing exhibits.

AHIS 333 Museum Administration Credit 3 hours
Aspects, practices, challenges, professional standards, ethics and legal issues of museum administration. Types of administrative models will be explored.

AHIS 390 Internship in Applied History Credit 1-6 hours
Provides practical experience in a museum or historical society, government agency, business, or industry. Open to upper division students. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

GEOGRAPHY

MINOR in Geography

A student must complete the following program in addition to the General Studies requirements and a major in another discipline:

GEOG 231 Physical Geog ..................................... 3
GEOG 232 Cultural Geog ..................................... 3
GEOG 336 Map Use & Geographic Info Systems .... 3
Electives in GEOG ............................................. 12

Total 21
COURSE DESCRIPTIONS

GEOG 231  Physical Geography  Credit 3 hours
Survey of the atmosphere, lithosphere, hydrosphere, and biosphere including a topical analysis of land forms, weather and climate, soils, and vegetation. Emphasis is on understanding processes of and relationships between the spheres. This course meets the General Studies Physical Science non-lab requirement.

GEOG 232  Cultural Geography  Credit 3 hours
Geographical relationships and interactions of cultural, social, economic, ethnic, and political phenomena. Topical approach to population sub-groups, migration, religions, languages, urban and rural settlements, and other attributes of the cultural landscape.

GEOG 300  World Cultures  Credit 3 hours
Study of various elements and spatial variations of culture around the world through topical, regional, and comparative analysis. Topics include concepts of culture, regional patterns, resource use, population, religion, language and communication, rural and urban settlements, and other attributes of the cultural landscape.

GEOG 324  World Regional Geography  Credit 3 hours
Survey of physical, cultural, and economic aspects of world regions. An introduction to how constituent parts of the world differ from one another in their associated resources, cultures, and economics. Prerequisite: GEOG 232.

GEOG 331  Economic Geography  Credit 3 hours
Locational aspects of human economic activities. Examines the geographical distribution of the world’s natural resources and the relationship between this distribution and national development and trade activities. Explores urban affairs, regional problems, regional development, and community planning. Students will conduct field research during the course.

GEOG 334  Political Geography  Credit 3 hours
Analyzes the geographic factors influencing historical and contemporary international relations and the policies of nations as political units. Consideration given to aspects of geopolitics, racial and ethnic groupings, religion and language, boundaries, and territorial changes.

GEOG 335  Resource Geography  Credit 3 hours
Ecological and environmental concepts through selected conservation and resource management topics including resource exploitation and methods of wise use of soils, forests, waters, minerals, wildlife, and recreational areas. Focus is on the relationship between human society and Earth systems especially how people identify, interpret, assess, and use resources from a geographic perspective.

GEOG 336  Map Use and Geographic Information Systems (GIS)  Credit 3 hours
A hands-on approach to acquiring skills in geographic techniques, introducing common characteristics and use of map media including topographic map interpreting, map and compass study, and thematic maps use and application. An introduction to basic geographic information systems structure that focus on location and resource analysis; a layering technique used for multiple interpretation, evaluation, and analysis using manual and computer environments.

GEOG 337  Community Structure and Change  Credit 3 hours
Study of rural and urban communities. Includes focus on social and spatial characteristics, community change, and planning. Includes field trips. Cross-listed as SOC 337.

GEOG 339  Geography of the Great Plains  Credit 3 hours
Examines physical and cultural features of the Great Plains. The climate, soils, landforms, and vegetation of the region will be interrelated with the sequence of human occupancy and activities from prehistoric times to the present. Emphasis upon changing perceptions and utilization of the Great Plains environment and the emergence of a distinctive contemporary region. Field trips may be a part of course activities.
GEOG 340  Geography of North America  Credit 3 hours
Regional analysis of the physical, demographic, economic, and cultural characteristics of the continent. A study of interactions of different groups of people and the resulting regional differentiation within North America.

GEOG 390  Internship in Geography  Credit 1-12 hours
Provides practical experience within some area of geography such as regional or community planning, Geographical Information Systems (GIS), or environmental/conservation work within a governmental agency, business, or industry. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

GEOG 400  Independent Study/Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of Instructor and Dean is required.

GEOG 430  Topics in Geography  Credit 1-3 hours
Special topics in geography. May be repeated with a change of emphasis.

GEOG 438  Seminar in Cultural Geography  Credit 1-3 hours
Examines various aspects of human cultural behavior and environmental space and helps students develop their awareness of the extent to which their feelings, behavior, and thoughts are influenced by their physical surroundings. Topics include environmental attitudes, environmental cognition, mental maps, personal space, territoriality, crowding, and psychological landscapes. Field research will be an important part of this course. Prerequisite: GEOG 232 or consent of Instructor.

GEOG 466  Field Experience in Geography  Credit 1-3 hours
Field observations concerning the cultural landscape. Noted especially are the spatial phenomena of landforms, soils, natural vegetation, and how different cultures change and adapt to these various natural environments. The study of the cultural landscapes involve the synthesis of cultural activity including: land use, urban and rural settlements, economic, political, and social activities. May require a tour.

HISTORY

The Degree of Bachelor of Arts with a SUBJECT MAJOR IN HISTORY: A student must complete the following program, the General Studies requirements, and a major or minor in another discipline:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 231</td>
<td>U.S. History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 232</td>
<td>U.S. History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 233</td>
<td>Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 234</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 320</td>
<td>Asian Cultural Realm</td>
<td>3</td>
</tr>
<tr>
<td>HIST 322</td>
<td>Asian Cultural Realm</td>
<td>3</td>
</tr>
<tr>
<td>HIST 330</td>
<td>Latin American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 331</td>
<td>Latin American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 332</td>
<td>Electives in U.S. History</td>
<td>9</td>
</tr>
<tr>
<td>HIST 333</td>
<td>Electives in World History</td>
<td>6</td>
</tr>
<tr>
<td>HIST 334</td>
<td>Electives in World History</td>
<td>6</td>
</tr>
<tr>
<td>HIST 345</td>
<td>History of Historical Writing</td>
<td>3</td>
</tr>
<tr>
<td>HIST 346</td>
<td>History of Historical Writing</td>
<td>3</td>
</tr>
<tr>
<td>HIST 365</td>
<td>History of Historical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 36

The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN HISTORY (7-12): A student must complete the following program in addition to the General Studies and Professional Education requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 231</td>
<td>U.S. History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 232</td>
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<td>3</td>
</tr>
<tr>
<td>HIST 233</td>
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<td>3</td>
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<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 320</td>
<td>Asian Cultural Realm</td>
<td>3</td>
</tr>
<tr>
<td>HIST 322</td>
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<td>3</td>
</tr>
<tr>
<td>HIST 331</td>
<td>Latin American History</td>
<td>3</td>
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<td>HIST 333</td>
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</tr>
<tr>
<td>HIST 345</td>
<td>History of Historical Writing</td>
<td>3</td>
</tr>
<tr>
<td>HIST 346</td>
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<td>HIST 375</td>
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<td>HIST 400</td>
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<tr>
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<tr>
<td>HIST 415</td>
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<tr>
<td>HIST 420</td>
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<tr>
<td>HIST 425</td>
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</tr>
<tr>
<td>HIST 430</td>
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<td>3</td>
</tr>
<tr>
<td>HIST 435</td>
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<tr>
<td>HIST 440</td>
<td>History of Historical Writing</td>
<td>3</td>
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<tr>
<td>HIST 445</td>
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<tr>
<td>HIST 450</td>
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<td>HIST 455</td>
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<td>HIST 460</td>
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<tr>
<td>HIST 465</td>
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</tr>
<tr>
<td>HIST 470</td>
<td>History of Historical Writing</td>
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<tr>
<td>HIST 475</td>
<td>History of Historical Writing</td>
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<tr>
<td>HIST 480</td>
<td>History of Historical Writing</td>
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<tr>
<td>HIST 485</td>
<td>History of Historical Writing</td>
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<tr>
<td>HIST 490</td>
<td>History of Historical Writing</td>
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<tr>
<td>HIST 495</td>
<td>History of Historical Writing</td>
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</tbody>
</table>

Total 39

*Requires 6 hours in one or more other social science area, including anthropology/sociology, economics, geography, political science and/or psychology.
MINOR in History

A student must complete the following program in addition to a major in another discipline and the General Studies requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 231</td>
<td>U.S. History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 232</td>
<td>U.S. History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 233</td>
<td>Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 234</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 235</td>
<td>The Asian Cultural Realm</td>
<td>3</td>
</tr>
<tr>
<td>HIST 236</td>
<td>Latin American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 237</td>
<td>History of England</td>
<td>3</td>
</tr>
<tr>
<td>HIST 238</td>
<td>Imperial Russia</td>
<td>3</td>
</tr>
<tr>
<td>HIST 239</td>
<td>The Soviet Union</td>
<td>3</td>
</tr>
<tr>
<td>HIST 240</td>
<td>Modern Germany</td>
<td>3</td>
</tr>
<tr>
<td>HIST 241</td>
<td>The World Since 1945</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 21 credits

COURSE DESCRIPTIONS

HIST 231  U.S. History to 1877  Credit 3 hours
Political, social, and economic development of the United States from the earliest explorations through the Civil War: colonial settlements, the formation of the Republic, the growth of nationalism, territorial expansion, the development of sectionalism, Civil War, and Reconstruction.

HIST 232  U.S. History Since 1877  Credit 3 hours
Continuation of HIST 231, from the end of Reconstruction to the present: the emergence of modern America, the rise of the city, the growth of industry, the organization of labor, the growth of democracy, and the evolution of foreign policy.

HIST 233  Western Civilization I  Credit 3 hours
Survey of Western Civilization and its relations with other world civilizations from the prehistoric and ancient periods to 1648 with emphasis upon political, cultural, social, economic, and religious movements.

HIST 234  Western Civilization II  Credit 3 hours
Survey of Western Civilization and its relations with other world civilizations from 1648 to the present with reference to political, social, economic, and cultural developments including emphasis on the ascendancy of Europe in world affairs.

HIST 320  The Asian Cultural Realm  Credit 3 hours
East Asian realm of China, Japan, Korea, and Indochina is treated in political, social, economic, and cultural areas, including not only the indigenous development of traditional Confucian societies but also the dynamics of modernization as a result of the impact of the West.

HIST 331  Latin American History  Credit 3 hours
History of Latin American nations covering the periods of conquest, colonization, and independence, with emphasis on social, political, and educational developments.

HIST 332  History of England  Credit 3 hours
Development of the political, social, and economic institutions of England.

HIST 335  Imperial Russia  Credit 3 hours
Russian history from the coming of the Varangians, through the Mongol invasion, to the evolution of the Muscovite state and the Romanov dynasty. Social, political, economic, and cultural developments receive attention.

HIST 336  The Soviet Union  Credit 3 hours
Last days of Imperial Russia, the Bolshevik Revolution of 1917, Soviet economic, social and political reforms, Stalinist totalitarianism, the ideological conflict, Soviet foreign policy, and the end of the Soviet state.

HIST 337  Modern Germany  Credit 3 hours
History of Modern Germany covering the period of the German Empire and of the German Republics. Emphasis is placed upon political and economic development, the influence of German culture, and international relations.

HIST 338  The World Since 1945  Credit 3 hours
Selected topics in World History since World War II. The evolution of the Cold War, the function of the United Nations, and the revolt against colonialism are emphasized.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 339</td>
<td>Nebraska History</td>
<td>3 hours</td>
<td>History of Nebraska with emphasis on geographical, social, political, and economic factors. May require field trips.</td>
</tr>
<tr>
<td>HIST 390</td>
<td>Internship in History</td>
<td>1-12</td>
<td>Provides practical historical experience while employed with a museum or historical society, government agency, business, or industry. Open to upper division students major in one of the social sciences. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.</td>
</tr>
<tr>
<td>HIST 400</td>
<td>Independent Study</td>
<td>1-3</td>
<td>Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of Instructor and Dean is required.</td>
</tr>
<tr>
<td>HIST 430</td>
<td>History of the American Indian</td>
<td>3 hours</td>
<td>A survey of Indian-white relations from American pre-history to the present. The course will emphasize the contributions made by American Indians to the general historical development of the United States.</td>
</tr>
<tr>
<td>HIST 431</td>
<td>Europe: Waterloo to World War I</td>
<td>3 hours</td>
<td>European history in the 19th century, emphasizing the rise of nationalism and industrialism, and the resultant changes in European society.</td>
</tr>
<tr>
<td>HIST 432</td>
<td>Europe Since 1914</td>
<td>3 hours</td>
<td>The end of the old order in Europe, the age of conflict and ideology, and the rise of mass movements from World War I to the present.</td>
</tr>
<tr>
<td>HIST 435</td>
<td>History of Historical Writing</td>
<td>3 hours</td>
<td>Methods of historical research, writing, and criticism, with emphasis on bibliography and historical interpretation.</td>
</tr>
<tr>
<td>HIST 436</td>
<td>America in the Twentieth Century</td>
<td>3 hours</td>
<td>A study of the growth of the United States during the last century with an emphasis on the evolution of political institutions, the United States as a world power, civil rights issues, and the main intellectual and cultural currents in this century of rapid change.</td>
</tr>
<tr>
<td>HIST 437</td>
<td>Issues in European History</td>
<td>3 hours</td>
<td>Selected topics of investigation in European history. May be repeated with different emphasis.</td>
</tr>
<tr>
<td>HIST 441</td>
<td>Issues, Topics, and Workshops in History</td>
<td>1-3</td>
<td>Selected topics or issues appropriate for study in a traditional classroom setting, seminar, or workshop format. May be taken more than once with different content with the permission of the instructor and Dean. Current topics include, but are not limited to: Women’s History, Mari Sandoz Workshop, History of Sports in the United States, and Topics in United States Military History.</td>
</tr>
<tr>
<td>HIST 442</td>
<td>Europe in the Middle Ages</td>
<td>3 hours</td>
<td>History and culture of Western Europe from the late Roman Era to the crises of the late Middle Ages including the transition from ancient to medieval civilization, Latin Christianity, the Carolinian Era, the papacy, feudal and manorial society, and the early emergence of the nation-state.</td>
</tr>
<tr>
<td>HIST 443</td>
<td>The Era of World War II</td>
<td>3 hours</td>
<td>Study of the era of World War II as the pivotal and defining era of United States history in the Twentieth Century.</td>
</tr>
</tbody>
</table>
### HIST 444 History of the American Colonies and the American Revolution  
Credit 3 hours  
Study of the rich variety of themes in Early America from Indian cultures to the appearance and development of European colonies in America and the evolution of these colonies through the period of the American West of Independence.

### HIST 445 The United States: The Early Republic  
Credit 3 hours  
Study of the issues and themes in the history of the United States from the nation’s founding to the era of sectionalism that led to the Civil War.

### HIST 446 The American West, 1500-1890  
Credit 3 hours  
Study of the American West to 1890, emphasizing the region as a contested meeting ground for various people. Significant Western themes, including expansion, violence, and the role of the federal government will be examined.

### HIST 447 The American West, 1890 to Present  
Credit 3 hours  
Study of the American West from 1890 to the present, emphasizing the contributions of Native Americans, Anglos, Hispanics, African Americans, and Asian Americans to the region’s rich history. Prominent themes, including aridity, “the mythic West,” and conflict with the federal government, will be investigated.

### HIST 448 Sectionalism, Civil War and Reconstruction  
Credit 3 hours  
Traces the history of sectionalism in the United States from the Missouri Compromise through the Civil War, closing with the end of military reconstruction in 1877.

### POLITICAL SCIENCE

**MINOR in Political Science**

A student must complete the following program in addition to the General Studies requirements and a major in another discipline:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 231</td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>PS 332</td>
<td>International Relations</td>
<td></td>
</tr>
<tr>
<td>PS 341</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>PS 420</td>
<td>American Political Thought</td>
<td></td>
</tr>
<tr>
<td>PS 431</td>
<td>History of Political Thought</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Political Science*</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

*GEOG 334, Political Geography, may be applied as an elective.

### COURSE DESCRIPTIONS

**PS 231 American National Government**  
Credit 3 hours  
Fundamentals of the federal system of government in the United States, including background, organization, processes, functions, political thought, public opinion in relation to politics, and politico-economic relations.

**PS 332 International Politics**  
Credit 3 hours  
Structure of the nation-state system and the process of international political activity with an emphasis on the questions: How do states behave toward one another? Why do they behave these ways? Topics treated are diplomacy, ideology, economic and security objectives of states, disarmament, international law, international organizations with emphasis on the United Nations, war and prospects for peace, and current international problems.

**PS 333 The Judiciary and Constitutional Law**  
Credit 3 hours  
American law in action, development of modern jurisprudence, structure and function of federal and state judicial systems, and the role of legislature in the legal process. Development of the American governmental systems through judicial interpretation of the Constitution. Cross-listed as CJ 333 and LS 333.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 334</td>
<td>Public Opinion and Propaganda</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Analysis of processes of public opinion formation and techniques of opinion measurement with emphasis on interest groups, mass media, and their impact on political behavior and change. Cross-listed as SOC 334.</td>
<td></td>
</tr>
<tr>
<td>PS 337</td>
<td>Introduction to Law</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Structures of our legal system, considering the economic, social, and political implications as they influence the development of a rule of law, historical and contemporary legal controversies will be examined. Cross-listed as CJ 337.</td>
<td></td>
</tr>
<tr>
<td>PS 341</td>
<td>Comparative Politics</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Examines various types of political systems in the world today, including parliamentary democracy, authoritarian rule, theocratic, and communist government. Looks at larger transnational and global trends, such as the population explosion in the developing world and the rise of multinational corporations. The governments of countries such as China, France, Mexico, and India will be covered.</td>
<td></td>
</tr>
<tr>
<td>PS 390</td>
<td>Internship in Political Science</td>
<td>1-12 hours</td>
</tr>
<tr>
<td></td>
<td>Provides practical experience in political science in a state or federal agency or other relevant office. Open to upper division students majoring in one of the social sciences or a minor in political science. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.</td>
<td></td>
</tr>
<tr>
<td>PS 400</td>
<td>Independent Study/Research</td>
<td>1-3 hours</td>
</tr>
<tr>
<td></td>
<td>Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of the Instructor and Dean is required.</td>
<td></td>
</tr>
<tr>
<td>PS 420</td>
<td>American Political Thought</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Main lines of American political thought and ideology will be examined. The Founding era, especially the debates between the Federalists and the Antifederalists, will be emphasized, as will developments in the post-WWII era.</td>
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</tr>
<tr>
<td>PS 421</td>
<td>Contemporary Political Ideologies</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Most important contemporary political ideologies will be examined, with an emphasis upon those most prevalent in the United States. Central ideologies discussed will include social conservatism, libertarianism, and populism.</td>
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</tr>
<tr>
<td>PS 430</td>
<td>Topics in Political Science</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Special topics in Political Science. May be repeated with a change of emphasis.</td>
<td></td>
</tr>
<tr>
<td>PS 431</td>
<td>History of Political Thought</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Various themes in political philosophy will be covered, such as political obligation, rights, freedom, and justice. Major philosophers covered will include Plato, Locke, and Rousseau.</td>
<td></td>
</tr>
<tr>
<td>PS 432</td>
<td>The Legislative Process</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Analysis of the legislative process in Congress and American state legislatures. Emphasis on statute-law making, oversight of the executive and representative function of the legislature, concurrent with an examination of decision-making, and legislative norms and roles.</td>
<td></td>
</tr>
<tr>
<td>PS 436</td>
<td>Field Study in Political Science</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>This course provides an opportunity for direct observation of governmental officials and other political participants. A typical session is a two-week stay in Washington, D.C. examining the activities of the Federal Government. Registration by permission of Instructor only.</td>
<td></td>
</tr>
</tbody>
</table>
SOCIAL SCIENCE

The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN SOCIAL SCIENCE (7-12): A student must complete the following program in addition to the General Studies and Professional Education requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 233</td>
<td>Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 234</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 320</td>
<td>Asian Cultural Realm</td>
<td>3</td>
</tr>
<tr>
<td>HIST 331</td>
<td>Latin American History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives in U.S. History</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Electives in World History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Focus area in ECON, GEOG or PS, SOC, &amp; ANTH</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Additional SS electives, as below</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>60</td>
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</tbody>
</table>

Nine (9) hours from one (1) Focus Area:

Economics: ECON 130, 231 or 232, and FIN 339

Geography: GEOG 231, 232, and 3 hours of upper division electives

Political Science, Sociology, and Anthropology: ANTH 231 and PS 231; plus SO 231, or upper division courses in PS, SOC, or ANTH

Thirty (30) hours from among the remaining disciplines, excluding the discipline chosen above, with at least three (3) semester hours in each discipline. BA 241, Quantitative Methods, is a prerequisite for additional courses in Economics.

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Course and Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology (231 recommended)</td>
<td>Political Science (231, upper division recommended)</td>
<td></td>
</tr>
<tr>
<td>Economics (130, 231 or 232 recommended)</td>
<td>Psychology (131, 231 recommended)</td>
<td></td>
</tr>
<tr>
<td>Geography (231, 232 recommended)</td>
<td>Sociology (231 recommended)</td>
<td></td>
</tr>
</tbody>
</table>

The Degree of Bachelor of Science in MIDDLE GRADES CONTENT AREA OF SPECIALIZATION IN SOCIAL SCIENCE (4-9): A student must complete the following program in addition to the General Studies and Professional Education, Middle Grade requirements and one other Content Area of Specialization requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 232</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 231</td>
<td>U.S. History to 1877</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>HIST 232</td>
<td>U.S. History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 233</td>
<td>Western Civilization I</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>HIST 234</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Latin American History</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td></td>
<td>History of the American Indian</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PS 231</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SOC 231</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
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</table>

MINOR in Social Science (K-6)

A student must complete the following program in addition to the General Education and Professional Education, Elementary Education requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>HIST 232</td>
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<tr>
<td>HIST 234</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
<td>History of the American Indian</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PS 231</td>
<td></td>
</tr>
<tr>
<td></td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>SOC 231</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives in GEOG, SOC, PS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>21</td>
</tr>
</tbody>
</table>
SS 323  Law and the American Society  Credit 3 hours
Nature, functions, and limits of law and its impact on economic, political, and social institutions.

SS 390  Internship in Social Science  Credit 1-12 hours
Provides practical experience in social science in a social or governmental agency. Open to upper division students majoring in one of the social sciences. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

SS 400  Independent Study/Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of Instructor and Dean is required.

SS 430  Topics in Social Science  Credit 1-3 hours
Special topics in Social Science. May be repeated with a change of emphasis.

SS 436  Seminar in Social Science  Credit 1-6 hours
Offered in any of the Social Science disciplines. Designed to meet the specific needs of a group of students, analogous to the way in which Independent Study or Research is designed to meet the needs of a specific student. Permission of the Instructor is required.

SOCIOMETRY
MINOR In Sociology
A student must complete the following program in addition to the General Studies requirements and a major in another discipline:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 231</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 231</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 335</td>
<td>Ethnic Minority Group Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOC 332/339/439</td>
<td>Juvenile Delinquency/ Criminology/ Sociology of Deviance</td>
<td>OR</td>
</tr>
<tr>
<td>SOC 343</td>
<td>Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

SOC 230  Society: Structure and Process  Credit 3 hours
Consistency and variation in human society. Includes study of socialization and deviance, small groups and large organizations, social institutions, social stratification, population dynamics, and social change. Includes cross-cultural comparisons.

SOC 231  Introduction to Sociology  Credit 3 hours
Introductory survey of the field of Sociology, including its development, contemporary methods, major theories, and recent studies.
SOC 332  Juvenile Delinquency  Credit 3 hours
History and concept of delinquency, nature and extent of delinquency, theories of delinquency, and environmental influences of delinquency, including child abuse and neglect, school-based crime, gang control efforts, and the relationship between delinquency and drug abuse. Cross-listed as CJ 332.

SOC 333  Marriage and the Family  Credit 3 hours
Complexities of interdependent relations in the family. Includes focus on dating, courtship, sex, children, parenting, the life cycle, nontraditional families, and family conflict.

SOC 334  Public Opinion and Propaganda  Credit 3 hours
Analysis of processes of public opinion formation, with emphasis on the influence of mass media and interest groups on political behavior and social change. The course includes study of public opinion measurement. Cross-listed as PS 334.

SOC 335  Ethnic and Minority Group Relations  Credit 3 hours
Analyzes relations of minority groups and dominant groups in the United States and selected other countries. Theories and research findings are included. Field trips may be required.

SOC 336  The Sociology of Religion  Credit 3 hours
Sociological study of religion including questions of the relations between religion and other social institutions, and the function of religious beliefs and practices for the individual, groups, and society.

SOC 337  Community Structure and Change  Credit 3 hours
Study of rural and urban communities. Includes focus on social and spatial characteristics, community change, and planning. Includes field trips. Cross-listed as GEOG 337.

SOC 339  Criminology  Credit 3 hours
Introduction to the study of the nature and causes of criminal behavior. Theories of crime causation ranging through biological, psychological, sociological, and cultural theories are discussed in addition to the historical influences and thought which have led to criminology’s development as contemporary science. Cross-listed as CJ 339.

SOC 340  Social Change  Credit 3 hours
Examines theories of social change and selected cases of social change, including revolutions, social movements, collective behavior, and social activism. Course requirements include individual or group participation in some effort to bring about social change.

SOC 343  Research Methodology  Credit 3 hours
Logic, design, and procedures of social research including questionnaire design and analysis, evaluation research, field research, participant observation, single case design, and experimental design. Students will conduct quantitative and qualitative research.

SOC 390  Internship in Sociology  Credit 1-12 hours
Provides practical experience in a setting relevant to the discipline of sociology. Open to upper division students pursuing a major or minor in sociology. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

SOC 400  Independent Study/Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of Instructor and Dean is required.

SOC 430  Topics in Sociology  Credit 3 hours
Special topics in Sociology. May be repeated with a change of emphasis.
SOC 433   Sociological Theory   Credit 3 hours
Sociological thought primarily from the 18th century to the present, with emphasis on selected classical theorists and major contemporary theories.

SOC 435   Advanced Social Psychology   Credit 3 hours
A study of four perspectives in Social Psychology: two primarily psychological, Gestalt and Freudian, and two primarily sociological, Exchange and Symbolic Interaction. The course includes student reading and interpretation of primary and secondary sources in these four areas. May be used as an elective in Psychology.

SOC 439   Sociology of Deviance   Credit 3 hours
Examination of deviant behavior as an element of the social world, including focus on patterns of non-criminal as well as criminal deviance, and on explanations of deviant behavior.

SOC 450   Senior Seminar in Sociology   Credit 2 hours
A capstone course for Sociology majors and other senior students with permission of the Instructor. The course will review the scope, methods and direction of contemporary Sociology and will review concepts and developments in sub-areas of Sociology in preparation for the Major Field Test in Sociology.

DEPARTMENT OF VISUAL AND PERFORMING ARTS

ART
The curriculum in Art will provide students with a comprehensive course of study in the field of visual arts while preparing them for a future as professionals in Art Education, Graphic Design or Fine Arts Studios.

Student Learning Outcomes
The objectives of the Art discipline are as follows:

- Students will have an opportunity to explore, create, analyze, and understand art.
- Students will develop and enhance their artistic skills.
- Students will gain knowledge of art through workshops, field trips, and gallery exhibits.
- The Art discipline will create an atmosphere which encourages students to communicate their ideas and feelings about art.
- Students will experiment with new art materials, procedures, and technology.
- Prospective teachers will become knowledgeable with methods and techniques used in art education.
- Students will develop a professional portfolio and art exhibit.

Requirements
1. All art majors are required to complete Art 131, 133, 136, and 230 prior to enrolling in any other studio courses.
2. During the second semester of their sophomore year each major is required to submit two works from three studio classes for evaluation by the art faculty. Students will be notified of the advisability of continuing in upper division art courses. Students are advised to save class projects for this purpose. Transfer students are required to submit a portfolio by the middle of their first semester junior year.
3. To complete the requirements for a degree in Art each senior art major must participate in one Senior Thesis Exhibit during his/her final year. B.S.E. candidates must enroll the semester prior to enrolling in student teaching (Note: Secondary Methods Course in art is offered only during the Fall semester.)
4. The senior exhibit must reflect the student’s ability to create Art in at least two media. All works must have been completed on the college level and within the past six years. The students, as a requirement of their senior thesis, must supply the department a senior thesis portfolio.
5. Students will not normally be permitted to enroll in Advanced Art Studio, Seminar, or Independent Study until they have completed the required courses in the media or topic selected for advanced study.
6. NOTE: ART 400, 430, 500, 530 are all three credit hour courses and may only be taken for a combined total of nine hours in any studio area.
7. Materials fee will be assessed for most Art courses.
The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN ART: A student must complete the following core and one option in addition to the General Studies requirements. All art majors are required to complete ART 131, 133, 136 and 230 prior to enrolling in any other studio courses.

### Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 131</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 133</td>
<td>Design Fundamentals I</td>
<td>3</td>
</tr>
<tr>
<td>ART 136</td>
<td>Figure Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 225</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>ART 227</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART 228</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 229</td>
<td>Introduction to Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 230</td>
<td>Design Fundamentals II</td>
<td>2</td>
</tr>
<tr>
<td>ART 232</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 321</td>
<td>Glass I (a) or (b)</td>
<td>3</td>
</tr>
<tr>
<td>ART 323</td>
<td>Creative Photography</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 338</td>
<td>Art History Survey I</td>
<td>3</td>
</tr>
<tr>
<td>ART 339</td>
<td>Art History Survey II</td>
<td>3</td>
</tr>
<tr>
<td>ART 412</td>
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### Graphic Design Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CA 231</td>
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</tr>
<tr>
<td>ART 322</td>
<td>Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 329</td>
<td>Graphic Design II</td>
<td>3</td>
</tr>
<tr>
<td>ART 340</td>
<td>20th Century Art Survey</td>
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</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>

*Electives selected from list below

### Art Studio Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 320</td>
<td>Figure Drawing II</td>
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<td>ART 340</td>
<td>20th Century Art Survey</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>57</strong></td>
</tr>
</tbody>
</table>

*Electives may be selected from ART 310, 325, 331, 332, 337, 421, 428.

The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN ART (K-12): All art majors are required to complete ART 131, 133, 136 and 230 prior to enrolling in any other studio courses. A student must complete the following requirements, the General Studies requirements, and Professional Education requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 131</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 133</td>
<td>Design Fundamentals I</td>
<td>3</td>
</tr>
<tr>
<td>ART 136</td>
<td>Figure Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 225</td>
<td>Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>ART 227</td>
<td>Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td>ART 228</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>ART 229</td>
<td>Introduction to Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 230</td>
<td>Design Fundamentals II</td>
<td>2</td>
</tr>
<tr>
<td>ART 232</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 321</td>
<td>Glass I (a) or (b)</td>
<td>3</td>
</tr>
<tr>
<td>ART 323</td>
<td>Creative Photography</td>
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</tr>
<tr>
<td>OR</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 334</td>
<td>Art for the Elem Teacher</td>
<td>3</td>
</tr>
<tr>
<td>ART 338</td>
<td>Art History Survey I</td>
<td>3</td>
</tr>
<tr>
<td>ART 339</td>
<td>Art History Survey II</td>
<td>3</td>
</tr>
<tr>
<td>ART 340</td>
<td>20th Century Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 412</td>
<td>Senior Thesis</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>54</strong></td>
</tr>
</tbody>
</table>

*Electives may be selected from ART 325, 331, 332, 337, 421, 428.
### MINORS in Art

**Art:** A student must complete the following program, a major in another area, and the General Studies requirements.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>ART 133</td>
<td>Design Fundamentals I</td>
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</tr>
<tr>
<td>ART 229</td>
<td>Introduction to Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 232</td>
<td>Painting I</td>
<td>3</td>
</tr>
<tr>
<td>ART 321</td>
<td>Glass I (a) or (b)</td>
<td></td>
</tr>
<tr>
<td>ART 322</td>
<td>Ceramics I</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Art (Must be upper division)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

**Art (K-6):** A student must complete the following program in addition to the General Studies and Professional Education, Elementary Education requirements.

<table>
<thead>
<tr>
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<tbody>
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<td>Painting I</td>
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<tr>
<td>ART 338</td>
<td>Art History Survey I</td>
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<tr>
<td>ART 339</td>
<td>Art History Survey II</td>
<td></td>
</tr>
<tr>
<td>ART 340</td>
<td>20th Century Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Art (Must be upper division)</td>
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<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

### COURSE DESCRIPTIONS

**ART 131**  **Drawing I**  **Credit 3 hours**

Basic drawing techniques using a variety of media and emphasizing the development of perceptual skills and communication through the language of art. May require field trips.

**ART 133**  **Design Fundamentals I**  **Credit 3 hours**

Study of the basic elements and principals of design and their application in the visual language of creative art.

**ART 136**  **Figure Drawing I**  **Credit 3 hours**

Drawing from live models in order to develop perceptual skills in relation to the figure. Prerequisite: ART 131.

**ART 223**  **Introduction to Photography**  **Credit 3 hours**

Introduction to the tools and techniques of traditional black and white photography. Topics covered include camera operation, lighting, film and print development, and professional presentation. 35 mm SLR camera required.

**ART 225**  **Printmaking I**  **Credit 3 hours**

A variety of relief and screenprinting techniques are covered to introduce the student to the unique expressive qualities of printmaking. Recommended prerequisite: ART 229.

**ART 227**  **Sculpture I**  **Credit 3 hours**

Experimentation with various materials in the creation of three-dimensional forms. Various media and processes will be explored.

**ART 228**  **Ceramics I**  **Credit 3 hours**

Basic techniques of pinch, coil, slab and wheel thrown ceramics, including clay mixing, glazing and kiln loading.

**ART 229**  **Introduction to Graphic Design**  **Credit 3 hours**

Introduction to the fundamentals of design, typography, layout, and the profession of graphic design.

**ART 230**  **Design Fundamentals II**  **Credit 2 hours**

Fundamentals of three-dimensional design are covered through the elements and principles of form. Prerequisites: ART 131 and 133.
ART 232  Painting I  Credit 3 hours
Basic painting techniques emphasizing the use of color, the development of perceptual skills and communication through the language of Art. May require field trips. Prerequisite: Art 131.

ART 239  Elements of Art  Credit 3 hours
Introduction to Art History, artists, techniques, and materials employed in the production of art. Illustrated lectures and demonstrations.

ART 310  Art Seminar  Credit 1-3 hours
Study and discussion of topics and problems of interest to advanced art students. Critiques of art shows and student’s work. May be repeated with a different topic.

ART 320  Figure Drawing II  Credit 3 hours
Continuation of drawing from live models to further develop perceptual skills in relation to the figure. Emphasis is placed on the user of the figurative art as a means of self-expression. Includes the production of one (1) portfolio of figurative art work. Prerequisite: ART 131 and 136.

ART 321  Glass I  Credit 3 hours
(a) Study of the history of and techniques used in forming hot glass. Student will gather, blow, shape and finish molten glass.
(b) Designed to introduce the student to various cold working processes in glass. Course will cover stained glass, etched, lampworked and fused processes.

ART 322  Graphic Design I  Credit 3 hours
Advanced typography for the design process of visual problem-solving and its application in graphic design projects. Prerequisite: ART 229.

ART 323  Creative Photography  Credit 3 hours
Introduction to the procedures and creative potential of the photographic process. Topics will include alternative, traditional, and digital photographic techniques. Camera required.

ART 325  Printmaking II  Credit 3 hours
Introduction to intaglio and techniques of mixed medium printmaking. Prerequisite: ART 225.

ART 329  Graphic Design II  Credit 3 hours
Intermediate illustration and interactive design and their applications in graphic design. Prerequisite: ART 322 or permission of the instructor.

ART 330  Topics in Art  Credit 1-3 hours
Designed for study of some aspect of art not offered as a regular class. Fields trips may be required. May be repeated with a different topic. Prerequisite: Permission of art faculty.

ART 331  Watercolor  Credit 3 hours
Introduction to watercolor and other mediums such as pastels or pencils. The use of color, development of perceptual skills and communication through the language of art will be emphasized.

ART 332  Painting II  Credit 3 hours
Advanced oil or acrylic painting techniques emphasizing the development of a personal direction and portfolio. Prerequisite: ART 231.

ART 334  Art for the Elementary Teacher  Credit 3 hours
Study of Discipline Based Art Education in the elementary classroom. Includes basic design, media experience, reference materials, art criticism, aesthetics, and history. Recommended prerequisites: Educational Psychology and Introduction to Teaching.
ART 337  **Sculpture II**  Credit 3 hours
Advanced construction of three-dimensional forms through fabrication, mold construction, metal casting, and finishing processes. Prerequisite: ART 227.

ART 338  **Art History Survey I**  Credit 3 hours
Historical survey of Western Art from Prehistory through Gothic with emphasis on the social and political influences of the visual arts. Field trips may be required.

ART 339  **Art History Survey II**  Credit 3 hours
Historical survey of Western Art from the Renaissance through 19th Century Realism with emphasis on the social and political influences of the visual arts. Field trips may be required.

ART 340  **Twentieth Century Art Survey**  Credit 3 hours
Survey of important movements and individual artists that have shaped Art History from Impressionism through the Postmodern 90s. Field trips may be required.

ART 390  **Internship in Art**  Credit 1-12 hours
Provides practical experience in art. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

ART 400  **Independent Study or Research**  Credit 3 hours
Study or research in an area of special interest. Students must submit a written proposal for study and be approved by the Art department prior to registration. Prerequisite: permission of Art faculty and Dean.

ART 410  **Seminar in Art**  Credit 1-3 hours
Designed to meet the special needs of a group of students, analogous to the way in which Independent Study or Research is designed. May be repeated with a different topic. Prerequisite: permission of Art faculty.

ART 412  **Senior Thesis**  Credit 1 hour
Preparation of the student’s senior art exhibit and portfolio is required of all art majors the semester they are scheduled to present their senior exhibit. Students will be evaluated on poster design, publicity, pictorial display, gallery arrangement and creativity, and craftsmanship in a broad range of media.

ART 421  **Glass II**  Credit 3 hours
Exploration in the use of molten glass as an art medium. Advanced glassblowing techniques, and construction and maintenance of studio equipment. Lab fee. Prerequisite: ART 321.

ART 422  **Graphic Design Practicum**  Credit 3 hours
Advanced level work in graphic design. Emphasis on multi-piece design, concept development, and professional presentation. Lab Fee. Prerequisite: ART 329.

ART 428  **Ceramics II**  Credit 3 hours
Concentration on the wheel thrown form, both functional and non-functional, with continued research into glaze formulation and firing of kilns. Lab fee. Prerequisite: ART 328.

ART 430  **Advanced Art Studio**  Credit 3 hours
Open to advanced art students who have completed required courses and seek additional experience in a particular area or medium. Students must take the initiative of selecting an area, outlining a detailed plan of work and study, and submitting it in writing to the art department. Departmental approval must be received before registering. May be repeated with a different area/medium. Prerequisite: permission of Art faculty.
MUSIC

Student Learning Outcomes

The primary goal of the Chadron State College Music Department is to prepare musicians for careers in education or the music business. The Music Department offers an undergraduate program designed to prepare individuals for a variety of different career areas in both the public and the private sectors through the following degree programs: Bachelor of Science in Education - Music Education K-12, Bachelor of Science in Education – Vocal Music K-8, Bachelor of Arts in Performance or Commercial Music Business (instrumental/vocal or piano studio operation emphasis). Students majoring in music are expected to demonstrate proficiency in music theory, music history, music performance, music pedagogy, conducting, and basic piano skills. Performance opportunities in large ensembles and in small ensembles provide students with hands-on experience necessary for the music profession.

The development of teaching strategies, critical thinking, and communication skills are an important part in the study of music at Chadron State College. The students are given the opportunity to develop networking and marketing skills as performers and as educators.

The Music Department provides musical leadership to the campus through general studies and education courses and to the service region as the four year institution of higher education in the Nebraska Panhandle.

Requirements

1. Music majors and minors are required to participate in a major performing ensemble each semester.
2. Students in all degree programs (B.S.E. and B.A.) are required to pass a proficiency examination in piano before graduation. Students in the Bachelor of Science in Education programs must complete this requirement before they can be approved by the Department of Music to enter the Professional Year.
3. Students in all degree programs must audition to be admitted to candidacy at the end of one year of study.
4. Students in all degree programs (except B.S.E. Vocal Music K-8) are required to present a qualifying solo recital for the music faculty at the end of the sophomore year, or at the end of the first semester in the case of an upper division transfer student. A student must have a cumulative GPA of 3.00 on his/her major instrument voice to present the qualifying exam. This requirement must be met before a student is eligible to enroll for upper division credit in applied music.
5. Students majoring in music performance will present a public half recital during the junior year as well as a public full recital during the senior year. The junior recital cannot be given until the student has completed at least four semesters as a music major at Chadron State College. The same GPA requirements apply for the sophomore qualifying exam and the senior recital.
6. Each senior music major (except B.S.E. Vocal Music K-8 Endorsement) must present a solo recital during the senior year. A student must have a cumulative GPA of 3.00 on his/her major instrument-voice to present the senior recital. At least three weeks prior to the scheduled recital date, the student will present a pre-recital hearing for the music faculty. Upon the recommendation of the faculty following the hearing, the student will present a public recital or reschedule another hearing for the following semester.
7. All students pursuing a B.S.E. with a Subject Endorsement Vocal Music (K-8) or a Field Endorsement in Music (K-12) must take EDUC 431K Special Methods in Music.

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN MUSIC: A student must complete the core requirements, an option, and the General Studies requirements. Students must obtain a cumulative average of 2.50 in all music courses in order to receive departmental approval for graduation.

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MKTG 231</td>
<td>Principles of Marketing</td>
<td>3</td>
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<tr>
<td>MUS 101</td>
<td>Student Recital</td>
<td>0</td>
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<tr>
<td>MUS 115</td>
<td>Private Instruction</td>
<td>4</td>
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<tr>
<td>MUS 131/131L</td>
<td>Theory I and Lab</td>
<td>4</td>
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<tr>
<td>MUS 132/132L</td>
<td>Theory II and Lab</td>
<td>4</td>
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<tr>
<td>MUS 231/231L</td>
<td>Theory III and Lab</td>
<td>4</td>
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<tr>
<td>MUS 232/232L</td>
<td>Theory IV and Lab</td>
<td>4</td>
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<tr>
<td>MUS 315</td>
<td>Private Instruction</td>
<td>3</td>
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<tr>
<td>MUS 321</td>
<td>Choral Conducting</td>
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<tr>
<td>MUS 322</td>
<td>Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 415</td>
<td>Senior Recital</td>
<td>1</td>
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<tr>
<td>MUS 438</td>
<td>Music History II</td>
<td>3</td>
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</tbody>
</table>

Core Total 32
### Music Performance Option

<table>
<thead>
<tr>
<th>Core Requirement</th>
<th>Credits</th>
<th>MUS 117 Piano Class I</th>
<th>MUS 118 Piano Class II</th>
<th>MUS 311 Music Literature I</th>
<th>MUS 312 Music Literature II</th>
<th>MUS 315 Private Instruction (addition to core)</th>
<th>MUS 437 Music History I</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>MUS 102/302 Wind Ensemble</td>
<td>3</td>
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<tr>
<td>MUS 103/303 Choir</td>
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<tr>
<td>MUS 105/305, 104/304, 106/306, 107/307, 108/308, or 109/309 Chamber Ensembles</td>
<td>4</td>
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</tbody>
</table>

*Students proficient in piano at time of enrollment may test out of the requirement.

### Commercial Music Business Option

<table>
<thead>
<tr>
<th>Core Requirement</th>
<th>Credits</th>
<th>MUS 336 Jazz Improvisation I</th>
<th>MUS 390 Internship</th>
<th>MUS 413 Songwriting/Arr &amp; MIDI I</th>
<th>MUS 419 Music Business</th>
<th>MUS 420 Music Products Seminar</th>
<th>Emphasis Instrumental/Vocal or Piano Studio Oper</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>MKTG 331 Sales Techniques</td>
<td>3</td>
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<td>MKTG 336 Advertising</td>
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<td>MKTG 338 Buyer Behavior</td>
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<td>MKTG 433 Retailing</td>
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<td>MKTG 437 Services Marketing and Management</td>
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### Instrumental/Vocal Emphasis: MUS 102/302 or MUS 103/303 (6 cr.); MUS 117; MUS 118; MIS 332

### Piano Studio Operations Emphasis: MUS 102/302 or MUS 103/303 (4 cr.); MUS 110/310 (3 cr.); MUS 319A and B; MUS 423, MUS 424

The following courses are recommended as supportive electives for the Commercial Music Business Option: MUS 337, 414, 436

**NOTE:** *Students proficient in piano at time of enrollment may test out of the requirement. Sophomore qualifying and senior recital requirements are required. Non-classical literature may be added providing a satisfactory repertoire of classical literature can be performed at an acceptable level.

**MUS 115x Private Improvisation may be substituted for MUS 336. MUS 115z, Private Songwriting Arranging, and MIDI I, may be substituted for MUS 413.

***A student may elect to enroll in 1-12 credit of MUS 390.

### The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN MUSIC (K-12): This endorsement qualifies a person to teach instrumental and vocal music in grades K-12. A student must complete the following program in addition to the General Studies and Professional Education requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>MUS 314 Percussion Pedagogy</th>
<th>MUS 315 Private Instruction</th>
<th>MUS 316 Vocal Pedagogy</th>
<th>MUS 320 Brass Pedagogy</th>
<th>MUS 321 Choral Conducting</th>
<th>MUS 322 Instrumental Conducting</th>
<th>MUS 323 Woodwind Pedagogy</th>
<th>MUS 331 Teach Mus/Elem Schs</th>
<th>MUS 332 Teach Mus/Sec. Schs</th>
<th>MUS 412 Tech. of Marching Band</th>
<th>MUS 415 Senior Recital</th>
<th>MUS 437 Music History I</th>
<th>MUS 438 Music History II</th>
<th>Total</th>
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<tbody>
<tr>
<td>MUS 101 Student Recital</td>
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<td>MUS 102/302 Wind Ensemble</td>
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<td>MUS 103/303 Choir</td>
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<td>MUS 115 Private Instruction</td>
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<td>MUS 117 Piano Class I</td>
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<td>MUS 118 Piano Class II</td>
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<td>MUS 131 &amp; 131L Theory I &amp; Lab</td>
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<td>MUS 132 &amp; 132L Theory II &amp; Lab</td>
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<td>MUS 231 &amp; 231L Theory III &amp; Lab</td>
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<td>MUS 232 &amp; 232L Theory IV &amp; Lab</td>
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<td>MUS 311 Music Literature I</td>
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<tr>
<td>MUS 312 Music Literature II</td>
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<tr>
<td>MUS 313 String Pedagogy</td>
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</table>

*Students must complete at least one credit hour of both band and choir to meet state accreditation requirements.

**Students proficient in piano at time of enrollment may test out of the requirement.
The following Classes are recommended as supportive classes: MUS 216, 315r, 413, 421

**The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN VOCAL MUSIC (K-8):**

This endorsement qualifies a person to teach vocal music in the elementary grades. A student must complete the following in addition to the General Studies and Professional Education, Elementary Education requirements.

MUS 101 Student Recital ........................................... 0
MUS 103/303 Choir ........................................... 4
MUS 115 Private Voice ........................................... 4
MUS 117 Piano Class I ........................................... 1*
MUS 118 Piano Class II ........................................... 1*
MUS 131/131L Theory I & Lab ................................... 4
MUS 216 Guitar Class ........................................... 1
MUS 316 Vocal Pedagogy ........................................... 1
MUS 321 Choral Conducting .................................... 2
MUS 331 Teach Music in Elem. Schools ................. 3
MUS 437 Music History I ........................................... 3
MUS 438 Music History II ........................................... 3
MUS 017 Opera Workshop Credit 1 hour
Open to all students who qualify through audition.

Total 31

*Students proficient in piano at time of enrollment may test out of the requirement.

**MINORS in Music**

**Music:** A student must complete the following program in addition to the General Studies requirements and a major in another discipline.

MUS 114 Choral Conducting .................................... 4
MUS 118 Piano Class II ........................................... 1*
MUS 131/131L Theory I & Lab ................................... 4
MUS 331 Teach Music in Elem. Schools ................. 3
MUS 437 Music History I ........................................... 3
MUS 438 Music History II ........................................... 3

**Note:** Entrance to many of the above ensembles is by audition.

**Music (K-8):** A student must complete the following program in addition to the General Studies and Professional Education, Elementary Education requirements.

MUS 101 Student Recital ........................................... 0
MUS 117 Piano Class I ........................................... 1*
MUS 131 & 131L Theory I Lab ................................... 4
MUS 316 Vocal Pedagogy ........................................... 1
MUS 331 Teaching Music in the Elem Schools ...... 3
MUS 437 Music History I ........................................... 3
MUS 438 Music History II ........................................... 3

Total 20

*Students proficient in piano at time of enrollment may test out of the requirement.

**Private Lessons**

Private instruction is offered in every instrument and voice. A minimum of five hours of practice per week is required for each credit earned. A performance examination (Jury) in each private lesson course is required at the end of each semester. All private lessons must be taken for credit. Students must pass a sophomore qualifying examination before registering for MUS 315. Students should enroll in MUS 415 during the semester of their senior recital.

**COURSE DESCRIPTIONS**

**MUS 016 Community Chorus**

Open to all students and community members. This ensemble gives a minimum of one concert performance each semester.

**MUS 017 Opera Workshop**

Open to all students who qualify through audition.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 018</td>
<td>Community Band</td>
<td>1 credit</td>
</tr>
<tr>
<td></td>
<td>Open to all students and community members. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 101</td>
<td>Student Recital</td>
<td>No Credit</td>
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<td></td>
<td>Registration is required each semester for music majors and minors, and students enrolled in private instruction.</td>
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<tr>
<td>MUS 102</td>
<td>Wind Ensemble</td>
<td>1 credit</td>
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<td></td>
<td>Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 103</td>
<td>Choir</td>
<td>1 credit</td>
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<td></td>
<td>Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 104</td>
<td>Vocal Ensemble</td>
<td>1 credit</td>
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<td></td>
<td>Open to all students who qualify through audition. Two small vocal ensembles, Chamber Choir and the Jazz Vocal Group use this course number with different section numbers. These ensembles give a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 105</td>
<td>Jazz Ensemble</td>
<td>1 credit</td>
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<td></td>
<td>Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 106</td>
<td>Jazz and Pop Combo</td>
<td>1 credit</td>
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<td>Open to all students who qualify through auditions. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 107</td>
<td>Woodwind Ensemble</td>
<td>1 credit</td>
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<td>Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 108</td>
<td>Brass Ensemble</td>
<td>1 credit</td>
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<td>Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 109</td>
<td>Percussion Ensemble</td>
<td>1 credit</td>
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<td>Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 110</td>
<td>Keyboard Ensemble</td>
<td>1 credit</td>
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<td></td>
<td>Participation in music ensembles is open to all qualified students. Students must audition.</td>
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<tr>
<td>MUS 112</td>
<td>Music Fundamentals</td>
<td>2 credits</td>
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<td>The development of the basic skills of music fundamentals for the classroom teacher. Required as prerequisite for MUS 333. (Requirement may be met by test-out examination.).</td>
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<tr>
<td>MUS 115</td>
<td>Private Instruction</td>
<td>1 credit</td>
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<td></td>
<td>Individual instruction in piano, organ, voice, percussion, brass instruments, woodwind instruments, and stringed instruments. Student must enroll simultaneously in MUS 101 Student Recital.</td>
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</tbody>
</table>
MUS 116 Introduction to Piano Class  
Introduction to keyboarding for students having limited or no piano background or experience. Emphasis will be placed on gaining physical coordination and familiarity with the keyboard. This course does not serve to fulfill piano proficiency requirements for the music major or minor.

MUS 117 Piano Class I  
Instruction in basic keyboard skills, including major scales and arpeggios, specified chord progressions, sight-reading, and harmonization of simple melodies.

MUS 118 Piano Class II  
Continuation of keyboard skills, including harmonic minor scales and arpeggios, more advanced sight-reading, harmonization, and chord progressions, score reading, and basic accompanying skills. Completion of this course with a grade of B or better will meet the piano proficiency requirement for all music majors and elementary music minors.

MUS 131 Theory I  
The melodic, rhythmic, and harmonic elements of music are studied in an integrated plan through listening, singing, writing, playing, and dictation. Must be taken concurrently with MUS 131L. Prerequisite: MUS 112 or test out.

MUS 131L Theory I Laboratory  
Ear training and sight-singing coordinated with the course material in Music 131 Theory I. Must be taken concurrently with MUS 131.

MUS 132 Theory II  
Continuation of MUS 131. Must be taken concurrently with MUS 132L. Prerequisite: MUS 131.

MUS 132L Theory II Laboratory  
Ear training and sight-singing coordinated with the course material in MUS 132 Theory II. Must be taken concurrently with MUS 132.

MUS 215 Voice Class  
Beginning vocal instruction and master class for non music majors. Includes a study of vocal techniques and their application in selected vocal literature.

MUS 216 Guitar Class  
Designed for the music major and general college student. The basic techniques of playing the guitar, including both choral and solo techniques. Guitars are furnished.

MUS 231 Theory III  
Advanced study of music theory through analysis of existing music compositions. Ear training, sight-singing, and composition are incorporated in the course. Must be taken concurrently with MUS 231L. Prerequisite: MUS 132.

MUS 231L Theory III Laboratory  
Ear training and sight-singing coordinated with the course material in MUS 213 Theory III. Must be taken concurrently with MUS 231.

MUS 232 Theory IV  
Continuation of MUS 231. Must be taken concurrently with MUS 232L. Prerequisite: MUS 231.

MUS 232L Theory IV Laboratory  
Ear training and sight-singing coordinated with the course material in MUS 232. Must be taken concurrently with MUS 232.
MUS 235  Elements of Music  Credit 3 hours
   How to listen to and appreciate the human and cultural values of various styles of music as well as learning the significance of music as cultural and aesthetic expression. For non-music majors.

MUS 236  Topics in Music  Credit 1-3 hours
   To meet the specific needs of a group of students by studying areas of music not presented in the curriculum. The class will include lecture, demonstrations, writing, and performance. May be repeated with different emphasis.

MUS 302  Wind Ensemble  Credit 1 hour
   Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester. Students who have not passed the sophomore qualifying exam should register for MUS 102.

MUS 303  Choir  Credit 1 hour
   Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester. Students who have not passed the sophomore qualifying exam should register for MUS 103.

MUS 304  Vocal Ensemble  Credit 1 hour
   Two small vocal ensembles, Chamber Choir and the Jazz Vocal Group, use this course number with different section numbers. Both small ensembles are open to all students who qualify through audition. These ensembles give a minimum of one concert performance each semester. Students who have not passed the sophomore qualifying exam should register for MUS 104.

MUS 305  Jazz Ensemble  Credit 1 hour
   Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester. Students who have not passed the sophomore qualifying exam should register for MUS 105.

MUS 306  Jazz and Pop Combo  Credit 1 hour
   Open to all students who qualify through auditions. This ensemble gives a minimum of one concert performance each semester. Students who have not passed the sophomore qualifying exam should register for MUS 106.

MUS 307  Woodwind Ensemble  Credit 1 hour
   Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester. Students who have not passed the sophomore qualifying exam should register for MUS 107.

MUS 308  Brass Ensemble  Credit 1 hour
   Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester. Students who have not passed the sophomore qualifying exam should register for MUS 108.

MUS 309  Percussion Ensemble  Credit 1 hour
   Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester. Students who have not passed the sophomore qualifying exam should register for MUS 109.

MUS 310  Keyboard Ensemble  Credit 1 hour
   Participation in music ensembles is open to all qualified students. Students must audition.

MUS 311  Music Literature I  Credit 2 hours
   Basic principles of listening to music applied to masterworks selected from the standard repertoire. Representative works will be chosen from the symphony, the concerto, vocal and instrumental chamber music, choral music, and opera.

MUS 312  Music Literature II  Credit 2 hours
   Continuation of MUS 311. Representative works will be chosen from the symphony, the concerto, vocal and instrumental chamber music, choral music, and opera.
MUS 313  String Pedagogy  Credit 1 hour
Introduction to the teaching of violin, viola, violoncello, and string bass. Includes study of pedagogy, string performance, repertoire and materials, and classroom management.

MUS 314  Percussion Pedagogy  Credit 1 hour
Introduction to the teaching of the various percussion instruments. Includes study of pedagogy, percussion performance, repertoire and materials, and classroom management.

MUS 315  Private Instruction  Credit 1 hour
Continuation of MUS 115. Student must pass a qualifying examination in his/her major area of performance prior to registration. Student must enroll simultaneously in MUS 101 Student Recital. Prerequisite: Successful completion of qualifying examination on the instrument.

MUS 315r  Instrument Repair Techniques  Credit 1 hour
Laboratory course. Practice in learning the technique of repairing brass, woodwind, and percussion instruments.

MUS 316  Vocal Pedagogy  Credit 1 hour
Techniques of voice production. Will include evaluations of the scientific, psychological, physiological, and empirical methods of teaching voice. Techniques of developing the young voice will be emphasized.

MUS 317  Seminar in Accompanying Techniques  Credit 1 hour
Basic problems of accompanying, as well as problems peculiar to certain media. Students will be assigned to supervised accompanying for lessons and recitals. Prerequisite: Permission of Instructor.

MUS 319a  Piano Studio Operations I  Credit 1 hour
Various practical and pedagogical aspects of teaching piano. The course will include a survey of piano teaching materials, particularly the methods courses, and specifics related to teaching and learning styles.

MUS 319b  Piano Studio Operations II  Credit 1 hour
Practical issues of operating an independent piano studio. Issues such as recruitment, retention, contracts, studio policies, income tax, and maintaining consistent monthly income will be discussed in-depth.

MUS 320  Brass Pedagogy  Credit 1 hour
Introduction to the teaching of cornet (trumpet), French horn, trombone, baritone, and tuba. Includes study of pedagogy, brass performance, repertoire and materials, and classroom management.

MUS 321  Choral Conducting  Credit 2 hours
Study of conducting techniques and choral literature.

MUS 322  Instrumental Conducting  Credit 2 hours
Techniques of conducting instrumental organizations and the study of instrumental literature.

MUS 323  Woodwind Pedagogy  Credit 1 hour
Introduction to the teaching of clarinet, oboe, flute, saxophone, and bassoon. Includes study of pedagogy, woodwind performance, repertoire and materials, and classroom management.

MUS 331  Teaching Music in the Elementary Schools  Credit 3 hours
Provides opportunities for students to develop a philosophy towards, an understanding of, and implementation of materials and methodologies pertaining to the teaching of general music and instrumental music in the elementary schools. For music majors.

MUS 332  Teaching Music in the Secondary Schools  Credit 3 hours
Provides opportunities for students to develop a philosophy towards, an understanding of, and implementation of materials and methodologies pertaining to the teaching of general music, vocal music, and instrumental music in the secondary schools. For music majors.
MUS 333  Music for the Classroom Teacher  Credit 3 hours
Materials and methods pertaining to the integration of music in the elementary classroom. Stresses demonstration and class participation. Required for all elementary education majors. Prerequisite: MUS 112.

MUS 336  Jazz Improvisation I  Credit 2 hours
Development of basic improvisational skills in the area of jazz performance. Tunes designed to work on a specific problem will be practiced. Ear training methods and patterns will serve to encourage creativity and facility for the tunes to be played.

MUS 337  Jazz Improvisation II  Credit 2 hours
Continuation of the development of improvisational skills as they apply to specific problems of jazz performance, with particular emphasis on improvising to specific tunes or progressions. Ear training and theory as they apply to jazz will be discussed at a more advanced level. Prerequisite: MUS 336.

MUS 390  Internship in Music  Credit 1-12 hours
Provides practical experience in the music products industry or the entertainment industry. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

MUS 400  Independent Study or Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of Instructor or Dean is required.

MUS 412  The Techniques of the Marching Band  Credit 1 hour
Comparative techniques of movement and music.

MUS 413  Songwriting/Arranging and MIDI I  Credit 1 hour
An introduction to general arranging and composing skills, applied through writing songs and arrangements utilizing MIDI (Musical Instrument Digital Interface) Technology.

MUS 414  Arranging II  Credit 1 hour
Continuation of MUS 413, involving the development and practice of arranging skills as they apply to professional and teaching situations. A large ensemble arrangement will be done.

MUS 415  Senior Recital  Credit 1 hour
The final semester of private instruction culminating with the required senior recital. Credit is given on a pass or fail basis. Prerequisite: MUS 315.

MUS 419  Music Business  Credit 3 hours
How the music industry operates, with emphasis on the record industry, publishing/songwriting, copyright, merchandising, retail, and marketing. Musical aspects as well as business and legal aspects are examined.

MUS 420  Music Products Seminar  Credit 1 hour
Study of the music products industry including manufacturing, print publishing, and sales.

MUS 421  Advanced Conducting  Credit 2 hours
Advanced baton technique, score study, interpretation, rehearsal techniques, and repertoire.

MUS 423  Piano Studio Literature  Credit 1 hour
Study of piano literature for use in the independent piano studio that extends beyond the methods materials and progresses sequentially through late-intermediate and early-advanced literature. Sixty educational pieces will be pedagogically analyzed, prepared, and performed by the student.
MUS 424  Piano Studio Technique and Theory  Credit 1 hour
The study of piano technique and theory for use in the independent piano studio that extends beyond the methods materials and progresses sequentially through late-intermediate and early-advanced concepts and skills. Students will develop exercises to aid in teaching theoretical concepts at four different levels (in accordance with standards set by the Nebraska Music Teachers Association). “Music Ace” and “Music Ace 2” will be used primarily to reinforce those theoretical concepts. Students will be required to demonstrate a progressive sequence of techniques from beginning through the early-advanced levels.

MUS 430  Topics in Music  Credit 1-3 hours
Examines a special topic in music. Topics vary from semester to semester. May be repeated.

MUS 433  Vocal Techniques  Credit 3 hours
The study of the vocal techniques of phonation, respiration, resonation, and articulation.

MUS 434  Instrumental Techniques  Credit 3 hours
Organization and administration of the instrumental music program in public schools, including materials, methods, organization, public performances, and festivals. Requires permission of instructor.

MUS 435  History of Jazz  Credit 3 hours
A historically organized introduction to jazz styles that have been documented on recordings. Designed to create an appreciation of jazz as well as to thoroughly cover the origins and periods of jazz history.

MUS 436  African-American Popular Music, 1619-1980  Credit 3 hours
Study of the music of African-Americans from the arrival of the first African in 1619 to the 1980s. The course details seven Pan-African musical characteristics and traces the effects on European music. The course views the progression of these characteristics through the development of blues, popular music, jazz, country music, and rock.

MUS 437  Music History I  Credit 3 hours
Survey of the development of musical style from the music of the early Christian church to 1700 through analysis, listening, reading, and writing.

MUS 438  Music History II  Credit 3 hours
Continuation of MUS 437. Survey of the development of musical style from 1700 to the present through score analysis, listening, reading, and writing.

MUS 439  Seminar in Music  Credit 1-3 hours
Designed to meet the specific needs of a group of students, analogous to the way in which Independent Study or Research is designed to meet the needs of a specific student. Permission of the instructor is required.

THEATRE
Mission and Objectives
The mission of the Chadron State College Theatre Studies Program is to prepare students for professional and educational theatre through a comprehensive program of practical application of knowledge bases and skills as well as sound analytical and theoretical development. Through a global perspective on theatre, its practices, and its history, students are provided the diversity necessary to their development as an individual and responsible member of a world society.

The course of study is designed to prepare the student for a career in theatre and to encourage personal and artistic growth in a student-centered environment that places an equal value on classroom study and practical application. To this end, the program is dedicated to providing a classroom experience strong in historical, theoretical, and process oriented work combined with extensive practical opportunities in production in which students are encouraged and expected to play key roles as actors, designers, technicians, and directors.
The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN THEATRE: A student must complete the core requirements, the General Studies requirements, and one of the following options.

Core Requirements

FCS 135 Alteration & Construction Techniques ... 3 TH 243 & 243L Intro to Set/Light Design & Lab ....... 3
TH 134 Principles of Acting ....................... 3 TH 336 Theatre History I ........................................ 3
TH 159 & 159L Technical Theatre & Lab ............ 3 TH 337 Theatre History II ................................... 3
TH 222 Stage Make-Up ................................ 2 TH 412 Senior Assessment Jury ...................... 1
TH 224 Fundamentals of Voice & Movement ........ 3 TH 429 Playscript Analysis ............................ 3
TH 234 Audition Techniques & Practices ............ 2 TH 435 Special Topics in Theatre (Choose from
TH 237 Beginning Directing .......................... 3 Stage Combat, Scene Painting, or
TH 243 &243L Intro to Set/Light Design & Lab ...... 3 Acting for the Camera) ........................... 3

Core Total 35

Performance/Directing Option

Electives to be selected from TH 334, 339, 340/440,
359, 434, 435, 437 .................................................. 19
Total 54

Technical/Design Option

Electives to be selected from TH 339, 340/440,
359, 402, 435, 445, 459/459L ......................... 19
Total 54

The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN THEATRE (7-12): A student must complete the following program in addition to the General Studies and Professional Education requirements.

FCS 135 Alteration & Construction Techniques ... 3 TH 336 Theatre History I ........................................ 3
TH 134 Principles of Acting ....................... 3 TH 337 Theatre History II ................................... 3
TH 159 & 159L Technical Theatre & Lab ............ 3 TH 412 Senior Assessment Jury ...................... 1
TH 222 Stage Make-up ................................ 2 TH 429 Playscript Analysis ............................ 3
TH 224 Fundamentals of Voice & Movement ........ 3 TH 435 Special Topics in Theatre (Choose
TH 234 Audition Techniques & Practices ............ 2 from Stage Combat, Scene Painting,
TH 237 Beginning Directing .......................... 3 or Acting for the Camera) ........................... 3
TH 243 &243L Intro to Set/Light Design & Lab ...... 3

Total 35

MINOR in Theatre

A student must complete the following program in addition to the General Studies requirements and a major in another discipline.

FCS 135 Alteration & Construction Techniques ... 3 TH 243/243L Intro. to Set/Light Design & Lab .......... 3
TH 134 Principles of Acting ....................... 3 History/Analysis elective* ............................... 3
TH 159/159L Technical Theatre Lab............... 3 Production elective* ......................................... 3
TH 237 Beginning Directing .......................... 3

Total 21

*One (1) elective course must be selected from each of the following categories:

History/Analysis Elective: TH 336, 337, 429
Production Elective: TH 334, 435, 437, 445, 459/459L

COURSE DESCRIPTIONS

TH 015 Theatre Practicum

Participation in theatre department productions. Repeatable up to four (4) hours.

TH 134 Principles of Acting

Study of the principles and techniques of acting with practice in improvisation, monologues, and scene work.
TH 159  Technical Theatre  
Study of the technical elements of stagecraft. This includes construction techniques, theory of light and sound, and an introduction to theatrical drafting. Students will be taught the fundamentals of safely operating construction tools, lighting instruments, sound equipment, and other theatrical equipment. Students will be required to purchase supplies. Must be taken concurrently with TH 159L.

TH 159L  Technical Theatre Lab  
Laboratory experience. Must be taken concurrently with TH 159.

TH 222  Stage Make-Up  
Theory and techniques of theatrical make-up. In addition to practical application projects, students will develop research and morgues for make-up applications to theatrical characters.

TH 224  Fundamentals of Voice and Movement  
Process-oriented study in voice and movement fundamentals for the actor; includes work on mechanics of vocal production and explorations of movement techniques in character development.

TH 234  Audition Techniques and Practices  
Intensive practicum on the selection, preparation and presentation of audition materials. This will include script reading, character analysis, music selection, monologue selection, and presentation.

TH 235  Elements of Theatre  
History and techniques employed in theatrical production. Lecture, demonstration, and participation in theatrical experiences.

TH 237  Beginning Directing  
Theory and practice of play direction, including playwriting and the structure of plays as it relates to acting and staging of a theatrical production. Designed for theatre majors, minors, and language arts students. Prerequisites: TH 134 and/or permission of instructor.

TH 243  Introduction to Set and Light Design  
Process used to create a set or lighting design for the stage and the process of synthesizing a design into a theatrical production. Emphasis will be on working from a production team’s concept to create a design that will communicate the concept to an audience. Students will be required to purchase equipment. Prerequisites: TH 159 and/or permission of the instructor. Must be taken concurrently with TH 243L.

TH 243L  Introduction to Set and Light Design Lab  
Laboratory experience. Must be taken concurrently with TH 243.

TH 300/400  Independent Study or Research  
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of the Instructor, Chair, and Dean is required.

TH 334  Intermediate Acting  
Development of the student actor through intensive scene study techniques and scene work. Prerequisites: TH 134 and/or permission of the Instructor.

TH 336  Theatre History I  
Study of the history of theatre and dramatic literature from its origins to the eighteenth century.

TH 337  Theatre History II  
Study of the history of theatre and dramatic literature from 1800 to the mid-twentieth century.
TH 339  Children’s Theatre Workshop  Credit 4 hours
Workshop geared toward the mounting and production of a performance for young audiences. Workshop participants will be responsible for the production and performance of a selected work. Activities include: rehearsal and characterization, set, costume design and construction, marketing and publicity, and theatre organization. Permission of Instructor required.

TH 340/440  Summer Theatre Internship  Credit 1-6 hours
Provides practical experience in theatre at the Post Playhouse or other professional summer theatre, in either performance or nonperformance areas. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

TH 359  Computer Applications for the Theatre  Credit 3 hours
Designed to give the student practical experience in using current computer technology for theatre design, including experience in computer aided drafting, rendering, recording, editing, creating of a sound effects CD, and using computers to create light plots and related paperwork. Prerequisites: TH 159 and/or permission of the instructor.

TH 412  Senior Assessment Jury  Credit 1 hour
Students will present professionally prepared audition material, portfolios, resumes, models, and designs to the theatre faculty. The course is designed to prepare students for the job market by requiring them to give a formal audition/presentation. This will serve as the final authentic assessment for exiting seniors in Theatre. Prerequisites: 2.5 cumulative GPA and consent of the Theatre faculty.

TH 429  Playscript Analysis  Credit 3 hours
Studies in structure of the playscript and script analysis. Students will do playscript analysis for performance, directing, and design with its specific relationship to production concept and/or research.

TH 434  Advanced Acting (periods and styles)  Credit 3 hours
Study of period styles of acting from Elizabethan Tragedy to Restoration Comedy and Farce. Prerequisites: TH 134 and TH 334 and permission of the Instructor.

TH 435  Topics in Theatre  Credit 3 hours
Special topics in theatre. May be repeated with a change of emphasis. Permission of Instructor and Chair required. Areas of emphasis may include stage combat, scene painting, and acting for the camera.

TH 437  Directing for the Stage  Credit 3 hours
Study of the theories and techniques of stage direction. Student will direct a one-act play. Prerequisites: TH 237 and permission of the Instructor and Chair.

TH 445  Advanced Set Design  Credit 3 hours
Study of the theories, techniques, and styles of drawing for scenic design and construction. Students will develop concepts through the beginning sketch, formal perspective, working drawings, and models to a fully realized design. Prerequisites: TH 243 and permission of the Instructor.

TH 459  Advanced Light and Sound Design  Credit 2 hours
Study of the theories, techniques, and styles of light and sound design and execution, including development of concepts based on script analysis and research. Based on these concepts students will then develop light designs from concept sketches through light-plot and accompanying dimmer-plots, circuit-plots, and cue-sheets. Students will also develop sound designs from verbal “sketches” through “cut” lists, sample tapes, and cue-sheets. Must be taken concurrently with TH 459L. Prerequisites: TH 243, 359 and permission of instructor.

TH 459L  Advanced Light and Sound Design Lab  Credit 1 hour
Laboratory experience. Must be taken concurrently with TH 459.
# SCHOOL OF PROFESSIONAL AND GRADUATE STUDIES

## DEPARTMENT OF APPLIED SCIENCES

### AGRICULTURE

#### Mission and Objectives

The mission of the agriculture program is to address the educational needs of individuals interested in range management, domestic livestock and/or wildlife management, soil and plant sciences, and production processes and techniques.

The students in this program will develop knowledge, skills, and abilities necessary to:

- Establish careers in farm and ranch operations and management.
- Function successfully in careers with the government, business, and industry as range managers and land stewards.
- Express an understanding of the highly competitive and global involvement of agriculture in the local, national, and world social and economic well-being.
- Gain entry into graduate programs in agriculture, range or biology related fields.

#### The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN BUSINESS ADMINISTRATION with AGRI-BUSINESS OPTION: See Department of Business and Economics.

#### The Degree of Bachelor of Science with a COMPREHENSIVE MAJOR IN RANGE MANAGEMENT: A student must complete the following core in addition to an option and the General Studies requirements. All students must take CHEM 140/140L, as well as BIOL 131, 136/136L, or 138/138L which will satisfy their General Studies Science requirements.

### Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 132</td>
<td>Intro to Animal Science</td>
<td>4</td>
</tr>
<tr>
<td>AGRI 141</td>
<td>Introduction to Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 234 &amp; 234L</td>
<td>Prin of Animal Nutrition &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 242 &amp; 242L</td>
<td>Prin of Range &amp; Forage Mgmt &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>AGRI 245 &amp; 245L</td>
<td>Prin of Soil Science &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>AGRI 334</td>
<td>Range Improvement Practices</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 337</td>
<td>Applied Animal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 339 &amp; 339L</td>
<td>Range Plant Ident &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 343 &amp; 343L</td>
<td>Veg Invent &amp; Analysis &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 350</td>
<td>Range Livestock Production</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 410</td>
<td>Agriculture Seminar</td>
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</tr>
<tr>
<td>AGRI 434</td>
<td>Land Resource Mgmt Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

**Core Total 37**

### Range Ecology Option

A student must complete the following program in addition to the core and the General Studies requirements with exceptions as noted below. Two semesters (Spring of the Junior year and Fall of the Senior year) will be spent on the University of Nebraska-Lincoln campus enrolled in those classes marked with an asterisk (*). Three (3) hours of History, three (3) hours of Health/Wellness, and two (2) hours of Physical Activities are waived from the General Studies requirements for this option.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
<td></td>
<td>37</td>
</tr>
<tr>
<td>AGRI 235</td>
<td>Intro to Wildlife Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 345</td>
<td>Range and Fire Ecology</td>
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<tr>
<td>BIOL 336 &amp; 336L</td>
<td>General Ecology &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 438 &amp; 438L</td>
<td>Taxonomy of Plants &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 439 &amp; 439L</td>
<td>Plant Physiology &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>ECON 334</td>
<td>Agricultural Econ &amp; Agribusiness</td>
<td>3</td>
</tr>
<tr>
<td>AGRON 477</td>
<td>Great Plains Pedology</td>
<td>4*</td>
</tr>
</tbody>
</table>

**Total 59**
**Recommended Electives:** In order to enhance employment opportunities the following elective courses are recommended: AGRI 331, 333, 336, 338, 340, 343, 345, 420, GEOS 321, 322, and at the University of Nebraska - Lincoln courses in Natural Resource Policy, Watershed Management, Principles of Forestry, Disturbed Land Reclamation, and Remote Sensing/GIS.

**Rangeland Livestock Management Option**

A student must complete the following program in addition to the Core requirements and complete the General Studies requirements. No exceptions to the General Studies requirements apply to this option.

<table>
<thead>
<tr>
<th>Core</th>
<th>Animal Science Electives from list below</th>
<th>Business Electives from list below</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 331 Farm and Ranch Management</td>
<td>9</td>
<td>9</td>
<td>37</td>
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<tr>
<td></td>
<td>3</td>
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</tbody>
</table>

**Animal Science Electives:** Select at least nine (9) hours from the following: AGRI 333/333L, 336, 338, 341/341L, 446.

**Business Electives:** Select nine (9) hours from the following: ACTG 241, AGRI 340, ECON 232, 334, 338, FIN 335.

**Recommended Electives:** In order to enhance employment opportunities the following elective courses are recommended: AGRI 335, 340, 341/341L, 343, 345, 420, GEOS 321 and 322.

**Bachelor of Science in Natural Resources WITH A MAJOR IN RANGLAND ECOSYSTEMS:** This program is designed for students who will complete two years at Chadron State College and who will then transfer to the University of Nebraska-Lincoln to complete a Bachelor of Science degree from the University of Nebraska-Lincoln. Please see an agriculture advisor on the Chadron State College campus for the courses to be taken at Chadron State College.

**Bachelor of Science in Agriculture Sciences WITH A MAJOR IN AGRICULTURAL EDUCATION:** This program is designed for students who will complete two years at Chadron State College and who will then transfer to the University of Nebraska-Lincoln to complete a Bachelor of Science degree from the University of Nebraska-Lincoln. Please see an agriculture advisor on the Chadron State College campus for the courses to be taken at Chadron State College.

### MINORS IN AGRICULTURE

**Agribusiness Minor:** This minor is recommended for the student interested in agribusiness and enrolled in a major other than Agriculture.

| AGRI 132 Intro to Animal Science | 4 | AGRI 410 Ag Seminar | 1 |
| AGRI 242 & 242L Prin of Range Mgmt & Lab | 4 | Choose 9 hr. of electives from below | 9 |
| AGRI 331 Farm and Ranch Management | 3 | | |
| | | | |
| | | | |

**Animal Science Minor:** This minor is recommended for the student interested in the animal sciences and enrolled in a major other than Agriculture.

| AGRI 132 Intro to Animal Science | 4 | Animal Production electives to be selected from list below | 6 |
| AGRI 245 & 245L Prin of Soil Science & Lab | 4 | | |
| AGRI 337 Applied Animal Nutrition | 3 | Animal Anatomy/Physiology to be selected from list below | 3 |
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**Animal Production:** Select at least six (6) hours from the following: AGRI 333/333L, 335, 336.

**Animal Anatomy/Physiology:** Select at least three (3) hours from the following: AGRI 341/341L, 446.
Agricultural Plant Science Minor: This minor is recommended for the student interested in the plant sciences and enrolled in a major other than Agriculture. Agriculture majors are advised to complete the Minor in Plant Sciences offered by Biology.

AGRI 141 Introduction to Plant Science ............................... 3  GEOS 322 Introduction to GIS .................................. 2
AGRI 245 & 245L Prin of Soil Science & Lab ..................... 4  BIOL 438 & 438L Taxonomy of Plants & Lab .................... 3
AGRI 339 & 339L Range Plant Ident & Lab ......................... 3  BIOL 439 & 439L Plant Physiology & Lab ......................... 3
AGRI 343 & 343L Veg Invent & Analysis & Lab ................. 3  Total  21

Wildlife Management Minor: This minor is recommended for the student interested in wildlife management.

AGRI 235 Introduction to Wildlife Management ... 3  AGRI 445 & 445L Mammalogy & Lab ............................ 3
AGRI 325 Rangeland Wildlife Management ........... 3  BIOL 401 Ornithology ............................................. 3
AGRI 426 Wildlife Res. & Mgmt. Techniques ........... 3  Electives ......................................................... 3
AGRI 435 Wildlife Management Practicum .............. 3  Total  21

To satisfy wildlife elective and to enhance employment potential students are recommended to take courses from the following: AGRI 245/245L, 339/339L, 343/343L, 345, BIOL 427/527, 443/543, GEOS 321, 322, MATH 232.

Veterinary Science: See agriculture faculty or pre-vet advisors for information.

COURSE DESCRIPTIONS

Many of the Agriculture courses require field trips that are considered an integral part of the course. Field trips may be held on Saturdays.

AGRI 132 Introduction to Animal Science  Credit 4 hours
Species adaptability, product standards and requirements, areas and types of production, processing and distribution of products, including meat animals, dairy, and horses.

AGRI 141 Introduction to Plant Science  Credit 3 hours
Fundamental structures and processes of plants. Principles to be applied cover plant structures, physiology, genetics, environmental relationship to growth, adaptation, biotechnology, and management of plants.

AGRI 234 Principles of Animal Nutrition  Credit 2 hours
Principles of ruminant and non-ruminant nutrition as they relate to the biochemical and physiological functions of nutrients in life processes, and as they relate to feeding practices. Must be taken concurrently with AGRI 234L.

AGRI 234L Principles of Animal Nutrition Lab  Credit 1 hour
Lab experience. Must be taken concurrently with AGRI 234.

AGRI 235 Introduction to Wildlife Management  Credit 3 hours
Introduction to the basic principles of wildlife biology and the art and science of wildlife management. Emphasis will be placed on terrestrial wildlife. Field trips required. Cross-listed as BIOL 235.

AGRI 242 Principles of Range and Forage Crop Management  Credit 3 hours
Emphasizes range history, ecology, physiology of range productivity and utilization, grazing management, range improvements, and domestic livestock and wildlife management. Also includes forage production, harvesting, storage, rotations and pasture management. Must be taken concurrently with AGRI 242L.

AGRI 242L Principles of Range and Forage Crop Management Lab  Credit 1 hour
Lab experience. Must be taken concurrently with AGRI 242.

AGRI 245 Principles of Soil Science  Credit 3 hours
Origin, development, classification, and management of soils that affect plant growth. Must be taken concurrently with AGRI 245L.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 245L</td>
<td>Principles of Soil Science Laboratory</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Lab experience. Must be taken concurrently with AGRI 245.</td>
<td></td>
</tr>
<tr>
<td>AGRI 270</td>
<td>Special Topics</td>
<td>1-3 hours</td>
</tr>
<tr>
<td></td>
<td>Special topics appropriate for lower division credit. May be repeated with different emphases for up to six hours of credit.</td>
<td></td>
</tr>
<tr>
<td>AGRI 325</td>
<td>Rangeland Wildlife Management</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Issues and management of wildlife and their habitats on rangelands. Emphasis will be on wildlife habitat management and manipulation and the issues of co-habitation of wildlife and domestic livestock. Field trips may be required. Cross-listed as BIOL 325. Prerequisite: Sophomore status or permission of Instructor and Dean.</td>
<td></td>
</tr>
<tr>
<td>AGRI 331</td>
<td>Farm and Ranch Management</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>The skills, techniques, innovations, and current procedures for management of farms and ranches.</td>
<td></td>
</tr>
<tr>
<td>AGRI 333</td>
<td>Beef Production</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Principles and practices of commercial and purebred beef production including breeds, breeding, reproduction, diseases, marketing, management, and general husbandry. Must be taken concurrently with AGRI 333L.</td>
<td></td>
</tr>
<tr>
<td>AGRI 333L</td>
<td>Beef Production Laboratory</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Lab experience. Must be taken concurrently with AGRI 333.</td>
<td></td>
</tr>
<tr>
<td>AGRI 334</td>
<td>Range Improvement Practices</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Methods of manipulating rangeland vegetation for multiple-use purposes by grazing management, undesirable animal and plant control, seeding, soil and water enhancement, and other appropriate management practices. Prerequisite: AGRI 242 or consent of instructor.</td>
<td></td>
</tr>
<tr>
<td>AGRI 335</td>
<td>Horse Production</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Principles and practices related to modern horse production including breeding, housing, foot and leg care, equipment, and history.</td>
<td></td>
</tr>
<tr>
<td>AGRI 336</td>
<td>Sheep Production</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Principles and practices of commercial and purebred sheep production including breeds, breeding and reproduction, diseases, marketing, management, and general husbandry.</td>
<td></td>
</tr>
<tr>
<td>AGRI 337</td>
<td>Applied Animal Nutrition</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Characteristics of basic feedstuffs and recommended feeding practices utilizing ration development, feeding trials, and feed analysis.</td>
<td></td>
</tr>
<tr>
<td>AGRI 338</td>
<td>Livestock Evaluation</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Evaluation of the relationship of form to function of domestic animals for superior production. Various types, classes, grades, and breeds of livestock will be studied. Prerequisite: AGRI 132 or consent of the instructor.</td>
<td></td>
</tr>
<tr>
<td>AGRI 339</td>
<td>Range Plant Identification</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Identification of the principle range grasses, forbs, and shrubs of North American rangelands by ecosystem, with both common and scientific names. Habitat, management, and historic use characteristics of these species is also presented. Must be taken concurrently with AGRI 339L.</td>
<td></td>
</tr>
<tr>
<td>AGRI 339L</td>
<td>Range Plant Identification Lab</td>
<td>2 hours</td>
</tr>
<tr>
<td></td>
<td>Lab experience. Must be taken concurrently with AGRI 339.</td>
<td></td>
</tr>
<tr>
<td>AGRI 340</td>
<td>Computer Applications in Agriculture</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Introduction to practical applications of the microcomputer in the agriculture industry. Agriculture information and marketing services, bulletin boards, word processing, record keeping spreadsheets, database uses, and other agriculture-related applications will be addressed.</td>
<td></td>
</tr>
</tbody>
</table>
AGRI 341  Animal Anatomy and Physiology  Credit 3 hours
Principles of physiology as related to gross anatomy, disease, and management practices of domestic animals. Recommended for pre-veterinary students. Prerequisite: AGRI 132, BIOL 131 or consent of the instructor. Must be taken concurrently with AGRI 341L.

AGRI 341L  Animal Anatomy and Physiology Laboratory  Credit 1 hour
Lab experience. Must be taken concurrently with AGRI 341.

AGRI 343  Vegetation Inventory and Analysis  Credit 1 hour
Rangeland and monitoring inventory techniques and vegetation sampling methods related to rangeland vegetation condition and degree of use. Must be taken concurrently with AGRI 343L. Prerequisite: AGRI 242 and 339, or consent of the instructor.

AGRI 343L  Vegetation Inventory and Analysis Lab  Credit 2 hours
Field lab experience. Must be taken concurrently with AGRI 343.

AGRI 345  Range and Fire Ecology  Credit 3 hours
Principles of range ecology using an approach treating plants, animals and humans as a whole. Includes composition, structure, processes, adaptations to environmental factors, biotic relationships, and problems of environmental quality and resource use. The role of fire in rangeland ecosystems, the characteristics of fire, and use of fire in maintaining native ecosystems will be explored. May require field trips. Prerequisite: AGRI 242 or consent of the instructor.

AGRI 350  Range Livestock Production  Credit 3 hours
Production of livestock on rangelands. Includes plant and animal responses to grazing, grazing animal behavior, grazing management, supplementing range forage, and economic considerations. Prerequisite: AGRI 242 or consent of the instructor.

AGRI 390  Internship in Agriculture  Credit 1-12 hours
Provides practical experience in agriculture. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

AGRI 400  Independent Study or Research  Credit 1-3 hours
For student seeking an individual problem in agriculture. Approval of a supervising faculty member and academic Dean are required before registering.

AGRI 410  Agriculture Seminar  Credit 1 hour
Designed to enhance oral and written communication skills as encountered in agriculture. Prerequisite: Junior or Senior status.

AGRI 420  Range Short Course  Credit 2 hours
Intensive summer workshop covering all contemporary areas of range management. Additional fees will be assessed.

AGRI 426  Wildlife Research and Management Techniques  Credit 3 hours
Field and laboratory techniques for studying, evaluating, and managing wildlife and their habitats are described and demonstrated. Field trips required. Cross listed as BIOL 426. Prerequisite: AGRI/Biol 235 required; AGRI/Biol 325 recommended.

AGRI 431  International Food Policy  Credit 3 hours
Ramifications of world population growth and abilities of that population to feed itself. Differences between cultures, geographic areas, and nations’ technological developments and economic powers will be presented. Ethical, cultural, and environmental concerns and responsibilities will be analyzed and discussed.
AGRI 434  Land Resource Management Planning  Credit 3 hours
Inventory of soils, vegetation, water, wildlife, timber, mineral, recreation, and cropland resources of a selected farm/ranch operation and development of a detailed management plan. Techniques of management of private and public lands. Prerequisites: AGRI 141, 242, 245, 334, 339, and 350 or consent of the instructor.

AGRI 435  Wildlife Management Practicum  Credit 3 hours
Seminar style course that will bring together wildlife professionals, natural resource managers, livestock producers, environmentalists and others interested in wildlife management. Participants will describe, discuss, and debate existing programs and issues on private and public lands. Field trips required. Cross-listed as BIOL 437. Prerequisite: AGRI/BIOL 235, AGRI/BIOL 426 required; AGRI/BIOL 325 recommended.

AGRI 437  Returning to the Farm  Credit 2 hours
Designed for students and their parents who are planning on farming/ranching together. Involves study of personality differences, business goals and arrangements, communications, decision-making, and adequacy of size of operation. Computer analysis of participant’s operating alternatives.

AGRI 445  Mammalogy  Credit 2 hours
Systematic, life history, physiology, and behavior of mammals. Must be taken concurrently with AGRI 445L. Field trips required. Prerequisites: BIOL 332, BIOL 336/336L and BIOL 432L or consent of the instructor.

AGRI 445L  Mammalogy Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with AGRI 445.

AGRI 446  Animal Breeding and Reproduction  Credit 3 hours
Reproduction processes of domestic animals, including anatomy, physiology, and endocrinology of reproduction, breeding systems, and artificial insemination principles. Prerequisite: AGRI 132 or consent of the instructor.

AGRI 460  Topics in Agriculture  Credit 1-3 hours
Meets the needs of changing conditions in Agriculture. Topics may change from semester to semester. This course may be repeated for up to a total of 6 hours of credit.

AGRI 461  Special Problems  Credit 1-4 hours
Designed for the highly motivated advanced student. The student must submit a plan of study to the instructor and have the instructor’s approval the semester prior to enrollment. This course may be repeated for up to a total of 6 hours of credit.

**CAREER AND TECHNICAL EDUCATION**

**Department Objectives**
The State Board of Nebraska has established certain criteria to be met by teachers planning to teach career and technical courses in Nebraska schools. The learning objectives of Career and Technical Education are:

- To foster a philosophy of education compatible with the philosophy of the career and technical education.
- To make students aware of the rights and responsibilities of the career and technical educator as set forth in all legislation affecting career and technical education.
- To provide prospective and practicing teachers with the specific experiences needed to instruct and/or administer a career and technical educational programs in the schools of Nebraska.

**SUPPLEMENTAL ENDORSEMENT to Teach COOPERATIVE EDUCATION-DIVERSIFIED OCCUPATIONS (7-12):** Students must complete the following program in addition to either having, or earning concurrently, a secondary endorsement in another field or subject.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTE 431/531 Intro to Spec Needs Prog in CTE</td>
<td>3</td>
<td>1000 hours verified work experience</td>
</tr>
<tr>
<td>CTE 434/534 Prin &amp; Phil of CTE</td>
<td>3</td>
<td>OR</td>
</tr>
<tr>
<td>CTE 438/538 Coord in Occup. Trng Prog</td>
<td>3</td>
<td>CTE 390 or 690 Internship</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong> 15</td>
</tr>
</tbody>
</table>
SUPPLEMENTAL ENDORSEMENT to Teach VOCATIONAL SPECIAL NEEDS (7-12): Students must complete the following program in addition to holding a valid secondary Nebraska Teaching Certificate with an endorsement in another field or subject.

CTE 431/531 Intro to Special Needs in CTE ............... 3  
CTE 532 Prog. for Special Needs Pop ................... 3  
CTE 533 Occ Guide For Learners with Special Needs ........................................... 3  
Total ........................................... 9  

COURSE DESCRIPTIONS

CTE 390  Internship in Career and Technical Education  Credit 1-12 hours
Provides practical work experience in an agency related to career and technical education. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

CTE 400  Independent Study or Research  Credit 1-3 hours
The problem selected and the amount of work in its solution determine the number of hours credit. May be repeated for up to six hours credit. Prerequisite: Consent of advisor.

CTE 431  Introduction to Special Needs Programs in Career and Technical Education  Credit 3 hours
Designed to help high school career and technical education teachers and special education teachers determine the work based and school based needs of learners identified as special populations. The course includes transition to work curriculum and program plans.

CTE 434  Principles & Philosophy of Career and Technical Education  Credit 3 hours
The principles, philosophy, and history of career and technical education are presented in this course.

CTE 435  Adult Education  Credit 3 hours
Study of the adult learner and the adult learning programs.

CTE 437  Occupational Analysis  Credit 3 hours
Study of the standard occupational analysis systems and practice in applying these systems to occupations and activities for determining content in curriculum development.

CTE 438  Coordination in Occupational Training Program  Credit 3 hours
Foundation and scope of current and projected career and technical cooperative education programs and general studies work experience. Emphasis on coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of cooperative occupational education.

CTE 440  Topics in Career and Technical Education  Credit 1-6 hours
Contemporary topics within career and technical education.

CTE 441  Improvement of Instruction  Credit 3 hours
Study of curriculum development, instructional models, integration of academic and occupational programs, and utilization of technologies in instruction.
FAMILY AND CONSUMER SCIENCES

Mission and Objectives
The mission of the Family and Consumer Sciences academic program is to prepare students for family life, work life, and careers. Family and Consumer Sciences empowers individuals and families across the life span to manage the challenges of living and working in a diverse, global society.

Students in this program will develop knowledge, skills, attitudes, and behaviors to:
• Strengthen the well-being of individuals and families across the life span
• Become responsible citizens and leaders in family, community and work settings
• Promote optimal nutrition and wellness across the life span
• Manage resources to meet the material needs of individuals and families
• Balance personal, home, family and work lives
• Use critical and creative thinking skills to address problems in diverse family, community, and work environments
• Function effectively as providers and consumers of goods and services
• Appreciate human worth and accept responsibility for actions and success in family and work life.

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN FAMILY AND CONSUMER SCIENCES:
A student must complete the General Studies requirements, the following core requirements, and one of the options listed below. Consultation with an advisor is recommended before embarking on a program.

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 122</td>
<td>Perspectives in Family &amp; Con. Sci ...</td>
<td>2</td>
</tr>
<tr>
<td>FCS 123</td>
<td>Principles of Apparel</td>
<td>2</td>
</tr>
<tr>
<td>FCS 139</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>FCS 320</td>
<td>Aging and Death</td>
<td>3</td>
</tr>
<tr>
<td>FCS 331</td>
<td>Family Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>FCS 332</td>
<td>Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>FCS 337</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FCS 390</td>
<td>Internship</td>
<td></td>
</tr>
</tbody>
</table>

Core Total 30

Child Development Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 235</td>
<td>Food Production</td>
<td></td>
</tr>
<tr>
<td>FCS 236</td>
<td>Food Mgmt &amp; Service</td>
<td>3</td>
</tr>
<tr>
<td>FCS 237</td>
<td>Guidance Tech in Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>FCS 238</td>
<td>Prenatal &amp; Infant Development</td>
<td>3</td>
</tr>
<tr>
<td>FCS 239</td>
<td>Partners in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>FCS 321a</td>
<td>Curriculum Development in FCS</td>
<td>2</td>
</tr>
<tr>
<td>FCS 321b</td>
<td>Curriculum Development in FCS</td>
<td>2</td>
</tr>
<tr>
<td>FCS 422</td>
<td>Professional Career Development</td>
<td>2</td>
</tr>
<tr>
<td>FCS 448</td>
<td>Early Childhood Practicum &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 231</td>
<td>Play, Art, Music for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 233</td>
<td>Lit &amp; Lang Arts For Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 336</td>
<td>Adolescent Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 36

Design & Merchandising Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 135</td>
<td>Alteration &amp; Construction Tech</td>
<td>3</td>
</tr>
<tr>
<td>FCS 224</td>
<td>Housing and Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>FCS 324a</td>
<td>Patternmaking</td>
<td>2</td>
</tr>
<tr>
<td>FCS 329b</td>
<td>Historic Fashion &amp; Costumes</td>
<td>2</td>
</tr>
<tr>
<td>FCS 329d</td>
<td>Visual Display/Production</td>
<td>2</td>
</tr>
<tr>
<td>FCS 333</td>
<td>Home and Hospitality Technology</td>
<td>3</td>
</tr>
<tr>
<td>FCS 341</td>
<td>Textiles</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>ITE 233</td>
<td>Graphic Communications Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITE 237</td>
<td>Computer Aided Drafting</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 56

NOTE: Students selecting this option must complete FCS 448 and FCS 448L in core requirements.
Hospitality Management Option

| Core Courses | Units | ACTG 241 Principles of Accounting I | 3 |
| FCS 235 | Food Production | 3 |
| FCS 236 | Food Management and Service | 3 |
| FCS 329d | Visual Display/Production | 2 |
| FCS 333 | Home and Hospitality Technology | 3 |
| FCS 236 | Food Management and Service | 3 |
| FCS 333 | Home and Hospitality Technology | 3 |
| FCS 235 | Food Production | 3 |
| FCS 329d | Visual Display/Production | 2 |
| C2 Lang | .......................... | 56 |

Human Services Option

| Core Requirements | Units | HPER 431 Community & Environment Health | 3 |
| FCS 234 | Human Services | 3 |
| FCS 335 | Families in Society | 3 |
| FCS 434 | Sem in Current Issues in Human Ser | 2 |
| FCS 437 | Family Strengths | 3 |
| FCS 234 | Human Services | 3 |
| FCS 335 | Families in Society | 3 |
| FCS 434 | Sem in Current Issues in Human Ser | 2 |
| FCS 437 | Family Strengths | 3 |
| Total | 56 |

The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN EARLY CHILDHOOD EDUCATION UNIFIED (Birth – Grade 3): This endorsement qualifies individual to teach early childhood and special education from birth through grade 3. A student must complete the following program in addition to the General Studies and Professional Education requirements.

| FCS 139 | Child Growth and Development | 3 |
| FCS 239 | Partners in Early Child Educ | 3 |
| SPED 331 | Behavior Interventions | 3 |
| FCS 238 | Prenatal & Infant Development | 3 |
| FCS 423 | Program Management | 3 |
| FCS 448/448L | Early Childhood Practicum & Lab | 4 |
| EDUC 231 | Play, Art & Music for Early Childhood | 3 |
| EDUC 321 | Teaching Elem/MS Math | 2 |
| SPED 231 | Survey of Effects of M/M Disability | 3 |
| SPED 332 | Language & Learning Disorders | 3 |
| SPED 416 | Clinical Exp in Appr Except Child | 1 |
| SPED 438 | Consultation/Collaboration | 3 |
| Total | 46 |

Professional Year: The following courses can be taken only as part of the Professional Year (2.50 G.P.A. required): Refer to Application for Professional Semester.

| EDUC 413 | Elem/MS Curric. & Counseling | 1 |
| EDUC 414 | Classroom Mgmt | 1 |
| EDUC 415 | Human Relations/Multicultural | 1 |
| EDUC 416 | Elem/MS Assessment | 1 |
| EDUC 417 | Teach Reading Diagnosis | 1 |
| EDUC 422 | Teach Elem/MS Science & Health | 2 |
| EDUC 423 | Teach Primary Reading | 2 |
| EDUC 424 | Teach Interim. Reading | 2 |
| Total | 11 |

EDUC 480P, Student Teaching Primary and EDUC 480R, Student Teaching Early Childhood Education Unified can be taken only upon completion of the above courses (minimum G.P.A. of 2.50 required).
The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN FAMILY AND CONSUMER SCIENCES (7-12): A student must complete the General Studies requirements and Professional Education requirements in addition to the following field endorsement courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 122</td>
<td>Perspectives in Family &amp; Con. Sci</td>
<td>2</td>
</tr>
<tr>
<td>FCS 123</td>
<td>Principles of Apparel</td>
<td>2</td>
</tr>
<tr>
<td>FCS 135</td>
<td>Alteration &amp; Construction Tech</td>
<td>3</td>
</tr>
<tr>
<td>FCS 139</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>FCS 224</td>
<td>Housing and Interior Design</td>
<td>2</td>
</tr>
<tr>
<td>FCS 235</td>
<td>Food Production</td>
<td>3</td>
</tr>
<tr>
<td>FCS 236</td>
<td>Food Management &amp; Service</td>
<td>3</td>
</tr>
<tr>
<td>FCS 320</td>
<td>Aging and Death</td>
<td>3</td>
</tr>
<tr>
<td>FCS 321b</td>
<td>Curriculum Development in FCS</td>
<td>2</td>
</tr>
<tr>
<td>FCS 324</td>
<td>Interior Environments</td>
<td>2</td>
</tr>
<tr>
<td>FCS 331</td>
<td>Family Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>FCS 332</td>
<td>Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>FCS 333</td>
<td>Home &amp; Hospitality Technology</td>
<td>3</td>
</tr>
<tr>
<td>FCS 337</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FCS 341</td>
<td>Textiles</td>
<td>4</td>
</tr>
<tr>
<td>FCS 421</td>
<td>Organization &amp; Admin of FCS</td>
<td>2</td>
</tr>
<tr>
<td>FCS 422</td>
<td>Professional Career Development</td>
<td>2</td>
</tr>
<tr>
<td>FCS 424</td>
<td>Housing Issues</td>
<td>2</td>
</tr>
<tr>
<td>CTE 431</td>
<td>Intro to Special Needs Prg in CTE</td>
<td>3</td>
</tr>
<tr>
<td>CTE 434</td>
<td>Prin &amp; Philosophy of CTE</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 56

The Degree of Bachelor of Science in Education with a field endorsement in MIDDLE GRADES (4-9), CONTENT AREA OF SPECIALIZATION IN FAMILY & CONSUMER SCIENCES: A student must complete the following program in addition to the General Studies, Professional Education, Middle Grades requirements and another Content Area of Specialization in Middle Grades requirement.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 139</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>FCS 236</td>
<td>Food Mgmt and Service</td>
<td>3</td>
</tr>
<tr>
<td>FCS 331</td>
<td>Family Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>FCS 332</td>
<td>Family Studies</td>
<td>3</td>
</tr>
<tr>
<td>FCS 337</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FCS 435</td>
<td>Consumer Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 18

SUPPLEMENTAL ENDORSEMENT IN FAMILY AND CONSUMER SCIENCES RELATED OCCUPATIONS (7-12): In addition to the FCS field endorsement, the following course work and experience are required.

CTE 438 Coord in Occupational Trng Program              | 3       |
1000 hours verified, paid work experience in FCS related occupational areas

OR

CTE 390 or Internship                                    | 6       |

MINORS IN FAMILY & CONSUMER SCIENCES

Child and Family Minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 139</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>FCS 237</td>
<td>Guidance Tech in Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>FCS 238</td>
<td>Prenatal &amp; Infant Development</td>
<td>3</td>
</tr>
<tr>
<td>FCS 320</td>
<td>Aging and Death</td>
<td>3</td>
</tr>
<tr>
<td>FCS 331</td>
<td>Family Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>FCS 332</td>
<td>Family Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 21

Nutrition and Food Minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 235</td>
<td>Food Production</td>
<td>3</td>
</tr>
<tr>
<td>FCS 236</td>
<td>Food Management &amp; Service</td>
<td>3</td>
</tr>
<tr>
<td>FCS 331</td>
<td>Family Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>FCS 333</td>
<td>Home &amp; Hospitality Technology</td>
<td>3</td>
</tr>
<tr>
<td>FCS 337</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FCS 436</td>
<td>Global Food Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 18

Textiles and Fashion Minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 123</td>
<td>Principles of Fashion</td>
<td>2</td>
</tr>
<tr>
<td>FCS 135</td>
<td>Alteration &amp; Construction Tech</td>
<td>3</td>
</tr>
<tr>
<td>FCS 329a</td>
<td>Patternmaking</td>
<td>2</td>
</tr>
<tr>
<td>FCS 329b</td>
<td>Historic Fashion &amp; Costumes</td>
<td>2</td>
</tr>
<tr>
<td>FCS 329d</td>
<td>Visual Display/Production</td>
<td>2</td>
</tr>
<tr>
<td>FCS 341</td>
<td>Textiles</td>
<td>4</td>
</tr>
<tr>
<td>MKTG 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 18
**PREPARATION FOR APPLICATION FOR CDA CERTIFICATION:** Students may take the following courses in preparation for applying for certification with Child Development Association (CDA).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 139</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>FCS 237</td>
<td>Guidance Tech in Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>FCS 238</td>
<td>Prenatal and Infant Development</td>
<td>3</td>
</tr>
<tr>
<td>FCS 239</td>
<td>Partners in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>FCS 321a</td>
<td>Curriculum Development in FCS</td>
<td>3</td>
</tr>
<tr>
<td>FCS 332</td>
<td>Family Studies</td>
<td></td>
</tr>
<tr>
<td>FCS 423</td>
<td>Program Management</td>
<td>3</td>
</tr>
<tr>
<td>FCS 448/448L</td>
<td>Early Childhood Practicum &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>25</strong></td>
</tr>
</tbody>
</table>

An individual must make application to the Council for Early Childhood Professional Recognition - CDA National Certification Program to receive proper credentialing. National Accreditation in Early Childhood requires employees to be degreed in Child Development, Family & Consumer Sciences, Early Childhood or Certified with a CDA.

**COURSE DESCRIPTIONS**

**FCS 122 Perspectives in Family and Consumer Sciences**  
Credit 2 hours

History, philosophy, and professional perspectives of the field as well as career exploration and academic planning. Lecture and discussion.

**FCS 123 Principles of Apparel**  
Credit 2 hours

Principles of design as well as consumer and merchandising principles of apparel are explored, including the historical, economic, and sociological aspects of fashion. Lecture and discussion.

**FCS 135 Alteration and Construction Techniques**  
Credit 3 hours

Adaptation of commercial patterns as well as custom-fitting techniques for ready-made items. The processes of sewing technologies, including selection and use of equipment, patterns, fabrics, notions, and fundamental techniques are utilized. Construction techniques will be applied to apparel and home interior fashions. Student learning objectives will build upon prior knowledge and skills.

**FCS 139 Child Growth and Development**  
Credit 3 hours

Human development from conception through adolescence is analyzed from physiological, cognitive, and socio-emotional perspectives. A combination of lecture, practical application and observation of the stages of development.

**FCS 224 Housing and Interior Design**  
Credit 2 hours

Architectural elements, design elements, and principles are applied to commercial and residential design and decor. Computer design will be explored.

**FCS 234 Human Services**  
Credit 3 hours

Exploration of careers within various human service areas. Provides awareness, information, and competencies necessary to facilitate entry into the human services. Topics of study include organizational management, planning service to clients, need analysis, and principles of human services.

**FCS 235 Food Production**  
Credit 3 hours

Chemical composition of food, preparation, principles and techniques for the retention of nutrition, appearance, and flavor. Application of principles of safety, nutrition, and wellness to enhance individual and family health.

**FCS 236 Food Management and Service**  
Credit 3 hours

Meal planning, preparation and design, and budgeting and purchasing of food. Both home and commercial management, preparation, and service of food are addressed.

**FCS 237 Guidance Techniques in Human Relations**  
Credit 3 hours

Principles of group management and individual guidance. Identifying common behaviors, distinguishing positive guidance approaches, and developing skill in utilizing appropriate methods of guidance when building human relations. Includes field experiences where students will demonstrate the ability to observe, document, and evaluate appropriate guidance practices.
FCS 238  **Prenatal and Infant Development**  Credit 3 hours  
Social, emotional, intellectual/cognitive, and physical development of the child between the ages of 0 and 3, including pregnancy. Theoretical concepts, developmental stages, and develop skill competencies necessary to enhance the growth and development of the infant. Integration of knowledge base skills and competencies through observation and practical laboratory experiences.

FCS 239  **Partners in Early Childhood Education**  Credit 3 hours  
Focuses on principles, methods and practical techniques for creating optimal working relationships which empower and strengthen individuals and families. Students will gain an understanding of the process of community building.

FCS 270  **Special Topics**  Credit 1-3 hours  
Special topics appropriate for lower division credit. May be repeated with different emphases for up to six hours of credit.

FCS 314abcd  **Focusing on the Future**  Credit 1 hour  
Using the critical science perspective, discussion of current topics and their impact on individuals and families. Emphasis will be on the process of asking questions and seeking answers from a wide range of perspectives, especially focusing on the future. May be repeated for up to a total of four hours credit. First year students will enroll in 314a, second years students 314b, juniors 314c, and seniors 314d. Upper-class students will be expected and encouraged to assume leadership roles in class discussions. Prerequisite: Instructor and Dean permission required for first year student registration.

FCS 320  **Aging and Death**  Credit 3 hours  
The life cycle as related to aging, the dying process, aging theories, and the psychological, social, and economic dimensions of bereavement. Emphasis will be placed on the economic and social needs of all individuals involved with an aging and dying person.

FCS 321a  **Curriculum Development in Family and Consumer Sciences Education for Preschool Programs**  Credit 2 hours  
Examines the curriculum models and developmental needs of preschool-age children. Students develop curriculum materials including unit plans and lesson plans. Students apply knowledge base, content, and curriculum material in a laboratory setting.

FCS 321b  **Curriculum Development in Family and Consumer Sciences Education for Secondary Programs**  Credit 2 hours  
Examines the curriculum needs of students in junior and senior high. Curriculum materials, including unit plans and lesson plans, are developed.

FCS 324  **Interior Environments**  Credit 2 hours  
Study and applications of interior furnishing, finishing materials, and design treatments for commercial and residential interiors. Studio. Prerequisite: FCS 224 OR permission of instructor.

FCS 329a  **Patternmaking**  Credit 2 hours  
Flat pattern as well as draping techniques in construction of apparel or interior fashions. Construction of a fitted basic or original design will be created. Prerequisites: FCS 135 OR permission of instructor.

FCS 329b  **Historic Fashion and Costumes**  Credit 2 hours  
Period designs and techniques for theater design and construction and authentic construction features. Involves research and design development or restoration. Prerequisites: FCS 135 OR permission of instructor.

FCS 329c  **Adaptive Fashions: Apparel and Home**  Credit 2 hours  
Apparel and personal care accessories for a variety of special needs and/or handicapping conditions. Ready-to-wear redesign or modification as well as original design and construction. Prerequisites: FCS 135 OR permission of instructor.
FCS 329d  Visual Display/Production  Credit 2 hours
The organization and arrangement of three-dimensional designs and fashion productions. Merchandising effects will be analyzed as well as created.

FCS 331  Family Systems Management  Credit 3 hours
Exploration of the decision-making process of planning, implementing, and evaluating the use of resources to meet individual and family goals throughout the life cycle. Special management situations will be considered using the case study method.

FCS 332  Family Studies  Credit 3 hours
A family study investigating functions of the family throughout the life cycle, including communications, relationships, socialization, and conflict resolution within the family. Lecture, discussion, and case study methods.

FCS 333  Home and Hospitality Technology  Credit 3 hours
Household energy systems will be studied, including the basic principles of electricity, gas, and alternative energies. The design, construction, selection, use, and care of appliances and utensils for the home will be investigated. Lecture, demonstration, and laboratory.

FCS 335  Families in Society  Credit 3 hours
Investigation into the roles and expressions of familial arrangements across various cultures and within distinct subgroups of society in order to promote understanding of individuals from diverse backgrounds.

FCS 337  Nutrition  Credit 3 hours
Study of the nutrients and their relationship to health and wellness. Major topics include the functions and sources of each of the nutrients; diseases and conditions associated with deficiencies and toxicities of nutrients, including obesity and eating disorders; nutrient needs of special populations, such as athletes, children, and pregnant women; and wellness lifestyles.

FCS 341  Textiles  Credit 4 hours
Natural and man-made fibers, yarns, and methods of fabrication, fabric finishes, and their performances. Legislation, merchandising, and consumer issues are also investigated.

FCS 390  Internship in Family & Consumer Sciences  Credit 1-12 hours
Provides practical experience in an agency related to Family and Consumer Sciences. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

FCS 400  Independent Study or Research  Credit 1-3 hours
Selected problems of interest to advanced students. Prerequisite: Consent of the instructor and the academic Dean of the school.

FCS 421  Organization & Administration of FCS  Credit 2 hours
Departmental management and funding, community activities and relations, youth organization, and facility/equipment maintenance.

FCS 422  Professional Career Development  Credit 2 hours
Seminar class designed as a capstone course for students preparing to graduate. Networks, job-searches, professional etiquette, professional organizations, certification, and the history and mission of Family and Consumer Sciences. Completion of a professional portfolio required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 423</td>
<td>Program Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management of program operations, funding, community relations, organization of personnel, and administration of programs. Integrates a basic understanding of techniques and skills necessary for managing and administering programs/organizations in a practical, hands-on format. Students will demonstrate knowledge based and skill based competencies in developing a program/organization, from preplanning to finalizing necessary requirements for successful program operations.</td>
<td></td>
</tr>
<tr>
<td>FCS 424</td>
<td>Housing Issues</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Current issues regarding social, political, and economic factors as related to family housing are investigated through research and discussion. Seminar style.</td>
<td></td>
</tr>
<tr>
<td>FCS 434</td>
<td>Seminar in Current Issues in Human Services</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Provides an opportunity to concentrate on current issues in the human services field including consumer rights and involvements, therapeutic modalities, policies, programs, funding, and administrative issues.</td>
<td></td>
</tr>
<tr>
<td>FCS 435</td>
<td>Consumer Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Goods and services available to the individual or family including information analysis, consumer communication skills, commodity exchanges, and merchandise standardization.</td>
<td></td>
</tr>
<tr>
<td>FCS 436</td>
<td>Global Food Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Analysis of various world-wide food patterns and associated health status’ as well as food production and distribution patterns around the world. Understanding and appreciation of the international perspective will be approached with critical thinking strategies.</td>
<td></td>
</tr>
<tr>
<td>FCS 437</td>
<td>Family Strengths</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Advanced study in the dynamics of successful family relationships. Investigation into the attributes of vital families which contribute toward the resolution of stressors in meaningful and positive ways. Lecture, discussion, and case study.</td>
<td></td>
</tr>
<tr>
<td>FCS 440</td>
<td>Special Topics in Family and Consumer Sciences</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>Contemporary concepts and issues in Family and Consumer Sciences. May be repeated with different emphases for up to six hours of credit.</td>
<td></td>
</tr>
<tr>
<td>FCS 448</td>
<td>Early Childhood Practicum</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An association of principles, theory, structure, function, and operation of programs for young children. Includes application of principles to development of daily and weekly unit plans, menus, and curriculum for coordination of a total program. The course requires laboratory experiences in an early childhood setting. Prerequisites: FCS 139, 237, 321, and 339 OR permission of instructor. Concurrent enrollment in FCS 448L required.</td>
<td></td>
</tr>
<tr>
<td>FCS 448L</td>
<td>Early Childhood Practicum Laboratory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Accompanies FCS 448. Concurrent enrollment in FCS 448 required.</td>
<td></td>
</tr>
</tbody>
</table>
INDUSTRIAL TECHNOLOGY

Mission and Objectives

The mission of the industrial technology academic program is to provide to students the educational preparation to enter careers in industrial management and industrial technology education. Industrial technology addresses the principles of industrial management; the elements of automation, quality control/assurances, communications, construction, manufacturing, energy and transportation; and the systems and processes associated with manufacturing, construction, and education.

The students in this program will develop knowledge, skills, attitudes and behaviors to:

- Function within industry as manager, supervisor, or educator.
- Use a broad knowledge base of the principles and elements that govern the processes of industry to achieve success in manufacturing management, construction management, or education.
- Apply knowledge of processes and systems to industrial environment or the educational environment.
- Have a personal philosophy reflective of the privileges and responsibilities for living within the dynamics of a technical society.

The Degree of Bachelor of Science with a COMPREHENSIVE MAJOR IN INDUSTRIAL MANAGEMENT: A student must complete the following program in addition to the General Studies requirements. Internships are recommended between the junior and senior year.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTG 241</td>
<td>Accounting Principles I</td>
<td>3</td>
<td>ITE 345k</td>
<td>Industrial and Commercial Wiring</td>
<td>3</td>
</tr>
<tr>
<td>ITE 230</td>
<td>Electrical and Electronic Systems</td>
<td>3</td>
<td>ITE 432</td>
<td>Quality Assurance/Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>ITE 232</td>
<td>Manufacturing Processes &amp; Systems</td>
<td>3</td>
<td>ITE 433</td>
<td>Occupational Safety</td>
<td>3</td>
</tr>
<tr>
<td>ITE 233</td>
<td>Graphic Communication Systems</td>
<td>3</td>
<td>ITE 434</td>
<td>Automated Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>ITE 235</td>
<td>Construction Systems</td>
<td>3</td>
<td>ITE 437</td>
<td>Kinematics and Machine Design</td>
<td></td>
</tr>
<tr>
<td>ITE 237</td>
<td>Computer Aided Drafting</td>
<td>3</td>
<td></td>
<td>Architectural Design</td>
<td>3</td>
</tr>
<tr>
<td>ITE 239</td>
<td>Energy, Power and Trans Systems</td>
<td>3</td>
<td></td>
<td>AND</td>
<td></td>
</tr>
<tr>
<td>ITE 335a</td>
<td>Construction Processes</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITE 337</td>
<td>Computer Aided Design Drafting</td>
<td>3</td>
<td>ITE 440</td>
<td>Special Topics: Construction</td>
<td>3</td>
</tr>
<tr>
<td>ITE 339</td>
<td>Hydraulics and Pneumatics</td>
<td>3</td>
<td>MGMT 230</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>ITE 341</td>
<td>Plant &amp; Lab Design and Management</td>
<td>3</td>
<td>MIS 332</td>
<td>Decision Support Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITE 345e</td>
<td>Industrial Electronics</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Total</td>
<td></td>
<td>57</td>
</tr>
</tbody>
</table>

NOTE: Students who wish to focus on Manufacturing Management should take ITE 437 and students interested in Construction Management should take ITE 360c and ITE 440.

Students are highly recommended to take ITE 390 Internship for three credit hours.

Students are highly recommended to add a business minor.

The Degree of Bachelor of Science In Education with a FIELD ENDORSEMENT IN INDUSTRIAL TECHNOLOGY EDUCATION (7-12): A student must complete the General Studies requirements, Professional Education requirements, and the program below:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITE 230</td>
<td>Electrical and Electronic Systems</td>
<td>3</td>
<td>ITE 345d</td>
<td>Digital Electronics</td>
<td></td>
</tr>
<tr>
<td>ITE 232</td>
<td>Manufacturing Processes and Systems</td>
<td>3</td>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>ITE 233</td>
<td>Graphic Communication Systems</td>
<td>3</td>
<td>CTE 431</td>
<td>Intro to Special Needs Prog in CTE</td>
<td></td>
</tr>
<tr>
<td>ITE 235</td>
<td>Construction Systems</td>
<td>3</td>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>ITE 237</td>
<td>Computer Aided Drafting</td>
<td>3</td>
<td>CTE 438</td>
<td>Coordination in Occupation Trmg</td>
<td>3</td>
</tr>
<tr>
<td>ITE 239</td>
<td>Energy, Power &amp; Transportation</td>
<td>3</td>
<td>ITE 345e</td>
<td>Industrial Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ITE 335a</td>
<td>Construction Processes</td>
<td>3</td>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>ITE 337</td>
<td>Computer Aided Design Drafting</td>
<td>3</td>
<td>ITE 432</td>
<td>Quality Assurance/Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>ITE 339</td>
<td>Hydraulics and Pneumatics</td>
<td>3</td>
<td>ITE 433</td>
<td>Occupational Safety</td>
<td>3</td>
</tr>
<tr>
<td>ITE 341</td>
<td>Plant &amp; Lab Design and Management</td>
<td>3</td>
<td>ITE 434</td>
<td>Automated Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CTE 434</td>
<td>Prin &amp; Philosophy of CTE</td>
<td>3</td>
</tr>
<tr>
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<td></td>
<td>Total</td>
<td></td>
<td>51</td>
</tr>
</tbody>
</table>
The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN TRADE AND INDUSTRIAL EDUCATION (9-12): A student must complete the following program in addition to the General Studies and Professional Studies requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITE 230</td>
<td>3</td>
<td>ITE 432</td>
<td>3</td>
</tr>
<tr>
<td>ITE 232</td>
<td>3</td>
<td>ITE 433</td>
<td>3</td>
</tr>
<tr>
<td>ITE 233</td>
<td>3</td>
<td>ITE 434</td>
<td>3</td>
</tr>
<tr>
<td>ITE 235</td>
<td>3</td>
<td>ITE 431</td>
<td>3</td>
</tr>
<tr>
<td>ITE 237</td>
<td>3</td>
<td>ITE 434</td>
<td>3</td>
</tr>
<tr>
<td>ITE 239</td>
<td>3</td>
<td>ITE 438</td>
<td>3</td>
</tr>
<tr>
<td>ITE 341</td>
<td>3</td>
<td>ITE Electives in an area of specialization</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 51

One year (2000 hours) paid employment in area of specialization required for teaching certification.

The Degree of Bachelor of Science in Education with a MIDDLE GRADES CONTENT AREA OF SPECIALIZATION IN INDUSTRIAL TECHNOLOGY EDUCATION (4-9): A student must complete the following program in addition to the General Studies, Professional Education Middle Grades Requirements and one other Content Area of Specialization in the Middle Grades requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITE 230</td>
<td>3</td>
<td>ITE 235</td>
<td>3</td>
</tr>
<tr>
<td>ITE 232</td>
<td>3</td>
<td>ITE 341</td>
<td>3</td>
</tr>
<tr>
<td>ITE 233</td>
<td>3</td>
<td>ITE 433</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>ITE 237</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total 18

SUPPLEMENTAL ENDORSEMENT IN DRIVER EDUCATION (7-12): A student must complete the following program in addition to the General Studies and Professional Education requirements. This endorsement requires applicant to hold or concurrently earn a subject or field endorsement in another area. The student must also hold a valid Nebraska drivers license and have a driving record free from repeated chargeable accidents and moving traffic violations.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CJ 435</td>
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<td>ITE 433</td>
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<tr>
<td>ITE 336</td>
<td>3</td>
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Total 12

MINORS IN INDUSTRIAL TECHNOLOGY

Drafting Minor

<table>
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<tbody>
<tr>
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<td>ITE 237</td>
<td>3</td>
<td>ITE 360h</td>
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<td>ITE 337</td>
<td>3</td>
<td>ITE 360l</td>
<td>2</td>
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<tr>
<td>ITE 360b</td>
<td>3</td>
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Total 21

Electronics Minor

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<tr>
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<td>OR</td>
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<td>ITE 345e</td>
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<td>IST 431</td>
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<td>ITE 345k</td>
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</tr>
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<td>ITE 230</td>
<td>3</td>
<td>ITE 445</td>
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</tr>
<tr>
<td>ITE 239</td>
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</table>

Total 21

Cisco Certified Networking Professional (CCNP) Certification: Students wishing to pursue Cisco Certified Networking Professional (CCNP) Certification should take the following sequence of courses as a part of their baccalaureate study at Chadron State College: IST 201, Cisco Advanced Routing; IST 302, Cisco Advanced Multilayer; IST 301, Cisco Advanced Remote Access; and IST 402 Cisco Internetworking Troubleshooting.
COURSE DESCRIPTIONS

ITE 201   Cisco Advanced Routing   Credit 3 hours
Theory and application of advanced routing protocols for internetworking, including BGP, EIGRP, OSPF, and IS-IS. This is one of the four course series that prepares a student for the Cisco Certified Network Professional (CCNP) certification. Prerequisite: CCNA (Cisco Certified Network Associate) certificate, or CCNA courses 1-4, or permission of instructor. This course is cross-listed as IST 201.

ITE 230   Electrical and Electronic Systems   Credit 3 hours
Introduction to electricity and electronic systems as they relate to industry. Students learn about direct current and alternating current, Ohm’s Law and the Power Law, series and parallel circuits, capacitance, inductance and filtering. The course also introduces students to solid-state devices such as diodes and transistors. Students learn by both discussion and experimentation in this course.

ITE 232   Manufacturing Processes and Systems   Credit 3 hours
Introduction to the world of manufacturing. Machining and forming processes including turning, milling, shearing, separating, casting, injection, molding, and thermo forming. Material properties, new developments, trends materials, and processing will be explored.

ITE 233   Graphic Communication Systems   Credit 3 hours
A systems approach, black and white photography, offset press fundamentals, screen printing fundamentals, and creative design practices, introduction to printing shop activities.

ITE 235   Construction Systems   Credit 3 hours
Fundamentals of construction at the supervisory level and relationship of construction to the four areas of technology. Topics include earth moving and excavating, compacting finishing, compressed air and water systems, concrete construction, wood construction, steel construction, planning and scheduling, bidding, contracts, safety and health and improving productivity.

ITE 237   Computer Aided Drafting   Credit 3 hours
Fundamentals of computer aided drafting, theory of shape description, applied geometry, drawing conventions, dimensions, sections, fasteners, and working drawings.

ITE 239   Energy, Power and Transportation: Processes and Systems   Credit 3 hours
Energy production, power transformation and transportation systems used in industry. A special emphasis is placed on efficiency and the appropriateness of the technology being used. Alternative forms of energy production as well as a study of transportation systems is also part of this course. Students learn by both discussion and experimentation in this course.

ITE 270   Special Topics   Credit 1-3 hours
Special topics appropriate for lower division credit. May be repeated with different emphases for up to six hours of credit.

ITE 301   Cisco Advanced Remote Access   Credit 3 hours
Design, operation and management of remote access networks, including WAN protocols such as ISDN, X.25, Frame-Relay and PPP on remote access networks. This is one of the four course series that prepares a student for the Cisco Certified Network Professional (CCNP) certification. Prerequisites: IST/ITE 201 or permission of instructor. This course is cross-listed as IST 301.

ITE 302   Cisco Advanced Multilayer Switching   Credit 3 hours
Design, operation and management of large scalable and reliable local area networks based on multiplayer switching. This is one of the four course series that prepares a student for the Cisco Certified Network Professional (CCNP) certification. Prerequisites: IST/ITE 301, or permission of instructor. This course is cross-listed as IST 302.
ITE 331  Humankind, Society and Technology  
This is a discussion course that deals with technology and its influence on the society in which we live. This course focuses on recent events occurring in the world that are related to technology usage and development. The course is structured to address technical issues that affect individual student’s lives and help them to make decisions regarding technology.

ITE 335a  Construction Processes  
Advanced study in management of construction projects. Activities in scheduling, process control, quality control, supervision, print reading, and contracts.

ITE 335b  Construction Special Projects  
Designed for the highly motivated student with advanced knowledge in construction processes. The student must submit a plan of study to the instructor and have the instructor’s approval prior to enrollment. This course may be repeated for up to six hours of credit.

ITE 336  Traffic Safety I  
Analysis of traffic accidents, attitude factors, essential knowledge of automobile operation, traffic rules and regulations, and the psychology of safety. Laboratory experiences in the use of psycho-physical testing equipment.

ITE 337  Computer Aided Design Drafting  
Auxiliary views, revolution, pictorial drawing, Geometric Dimensioning and Tolerancing, symbols and CAD/CAM drawings for computer numerical control are the primary topics studied. Drawings will be completed for each topic. Prerequisite: ITE 237.

ITE 339  Hydraulics and Pneumatics  
This is an introductory course studying the basic foundations of fluid power. The course discusses both hydraulic and pneumatic systems including the components that make up these systems and devices that control such systems. Prerequisite: ITE 239.

ITE 339e/345j/360k  Special Problems  
Designed for the highly motivated, advanced student. The student must submit a plan of study to the instructor and have instructor approval the semester prior to enrollment. This course may be repeated for up to 6 hours of credit.

ITE 341  Plant and Laboratory Design and Management  
Plant and laboratory design including organization of space; equipment selection, maintenance and production scheduling; as well as, purchasing and inventory procedures. Students are engaged in research discussion and project work during this course.

ITE 345d  Digital Electronics  
Solid state devices, digital logic, number systems, and related topics that provide the foundations for digital computing and industrial logic control. Special emphasis is placed on understanding how diodes, transistors, and integrated circuits function. Students will also be introduced to amplifiers, converters, and filter circuits. Students learn by both discussion and experimentation in this course. Prerequisite: ITE 230.

ITE 345e  Industrial Electronics  
Application of digital and analog programmable logic controls as they are used in industrial settings. Students learn how pc’s work and also how to program these devices. Additional emphasis is also given to sensors and transducers that are used in an industrial environment. Students learn by both discussion and experimentation in this course. Prerequisite: ITE 230. ITE 345d is strongly recommended.

ITE 345k  Industrial and Commercial Wiring  
Electrical wiring as it applies to commercial structures and industrial equipment. Prerequisite: ITE 230 or by permission of instructor.
ITE 360b  Residential Planning  Credit 3 hours
Planning homes with emphasis on drawing floor plans, elevations, and perspectives.

ITE 360c  Architectural Design  Credit 2 hours
Detailed development of architectural plans including sections, framing plans, foundation plans, plot plans, electrical plans, bill of materials, and door and window schedules. Prerequisite: ITE 360b.

ITE 360h  Topographical Mining and Highway  Credit 2 hours
Practical drafting problems involving the design and construction for mining, highway, and topographical maps. Prerequisite: ITE 237.

ITE 360l  Landscape Planning  Credit 2 hours
Site development plans will be drawn which will include plot plans and landscape plans. Landscape drawing may include residential, commercial, and recreation areas.

ITE 390  Internship in Industrial Technology  Credit 1-12 hours
Provides practical work experience in an agency related to industrial technology. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

ITE 400  Independent Study or Research  Credit 1-3 hours
Research in industrial technology. The problem selected and amount of work in its solution determine the number of hours credit. Prerequisite: Industrial Technology major and consent of advisor and dean.

ITE 402  Cisco Internetwork Troubleshooting  Credit 3 hours
Complex networking problem-solving involving integrated LAN and WAN environments that include advanced routing protocols, remote access, internetworking and large or complex LAN configurations. This course is the culminating course in preparation for the Cisco Certified Network Professional (CCNP) certification. This course is cross-listed as IST 402.

ITE 432  Quality Assurance/Quality Control  Credit 3 hours
Quality Assurance in terms of its relationship to design, testing, manufacturing, and applications. Procedures and methods for quality control systems for manufacturing industries. Prerequisite: ITE 232 or ITE 233.

ITE 433  Occupational Safety  Credit 3 hours
An overview of occupational accident prevention programs: techniques of measurement, cost of accidents, locating and identifying accident sources, and selecting corrective action. Emphasizes the implications of the Federal Occupational Safety and Health Act of 1970 on industrial operations, systematic self inspections, and compliance procedures. Prerequisite: Junior status.

ITE 434  Automated Manufacturing  Credit 3 hours
Concepts in computer integrated manufacturing. Experiences in communication of data via networks to CNC machines and robots will provide a foundation by applying those concepts to actual industrial situations. Prerequisites: ITE 232, ITE 332, ITE 239, ITE 339a, ITE 230, ITE 345e, and ITE 445a.

ITE 436  Traffic Safety II  Credit 3 hours
Effective principles, methods, and materials for use in organizing the teaching and administration of high school driver education programs. The student must be 19 years of age. The student will acquire competence in developing and projecting their skills and techniques through supervised teaching experiences. Prerequisite: ITE 336.
ITE 437  Kinematics and Machine Design  Credit 3 hours
Analysis and design of machine elements: gearing, bearing, shafting, and friction devices. Dynamics of machinery including rectilinear and curvilinear motion, translation and rotation of a rigid body, force-acceleration equation, impulse and momentum, and balancing and vibration. Prerequisites: ITE 237 and ITE 337.

ITE 445  Microprocessor Applications  Credit 3 hours
Hardware systems that make up a personal computer. Students learn about the components that make up a system, the functionality of such components, as well as set-up and troubleshooting such systems. Special emphasis is placed on historical origins of digital computers, technical development and recent innovations. Students learn by both discussion and experimentation in this course. Prerequisite: ITE 230, ITE 345d is strongly recommended.

ITE 440  Topics in ITE  Credit 1-3 hours
Study of contemporary areas of ITE.

DEPARTMENT OF BUSINESS & ECONOMICS

The Association of Collegiate Business Schools and Programs (ACBSP), a professional accreditation agency recognized by the Council of Higher Education Accreditation (CHEA), has awarded accreditation status to the following degree programs offered by the Department of Business and Economics:

1) Comprehensive Major in Business Administration
   Options: Accounting, Agri-Business, Economics/Finance, Management, Management Information Systems, Marketing
2) Subject Major in General Business
3) Master of Business Administration

Vision

The Department of Business and Economics at Chadron State College provides nationally competitive professional preparation in Business Administration and Business Education. These programs provide the requisites for personal fulfillment, responsible leadership in business, teaching and service.

Mission

The faculty of the Department of Business and Economics is committed to preparing students for challenging careers in the rapidly changing, highly technological and culturally diverse world. The fundamental purpose of the Department of Business and Economics is to be the premier provider of professional business programs in our service region. We strive to combine excellence in teaching with appropriate course work and classroom environments that emphasize critical thinking, human relation/communication skills, theoretical and professional skills, and lifelong learning environment designed for creative problem solving and decision making.

Student Learning Objectives of Bachelor of Arts Program
The student learning objectives for the Department of Business and Economics are:

• To meet the needs of students who wish to prepare for positions in the field of business and economics.
• To meet the needs of students who desire to gain knowledge about business and economics for professional and personal growth.
• To provide graduate programs for students wishing to pursue advanced work in the areas of business and economics.
The Degree of Bachelor of Arts with a SUBJECT MAJOR IN GENERAL BUSINESS: A student must complete the following program in addition to the General Studies requirements and a major or minor in another discipline. Transfer students from a two (2) year institution must complete 50% of the required courses for the major from Chadron State College. All Business Majors must complete one of the following or equivalent Mathematics Requirement, prior to taking advanced (300/400 level) Finance, Economics, and Management courses: MATH 138 Applied Calculus or MATH 142 College Algebra. All Business majors must complete BA 331 Business Communications or equivalent for the General Studies Communication requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ACTG 241</td>
<td>Accounting Principles I</td>
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<tr>
<td>ACTG 242</td>
<td>Accounting Principles II</td>
<td>3</td>
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<tr>
<td>B A 336</td>
<td>Business &amp; Economic Statistics</td>
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</tr>
<tr>
<td>B A 337</td>
<td>Business Law I</td>
<td>3</td>
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<td>ECON 231</td>
<td>Macroeconomics</td>
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<td>ECON 232</td>
<td>Microeconomics</td>
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<tr>
<td>FIN 330</td>
<td>Business Finance I</td>
<td>3</td>
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<tr>
<td>MGMT 230</td>
<td>Principles of Management</td>
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<td>MGMT 434</td>
<td>Strategic Management</td>
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<tr>
<td>MIS 130</td>
<td>Principles of Information Systems</td>
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</tr>
<tr>
<td>MIS 332</td>
<td>Decision Support Systems</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 231</td>
<td>Principles of Marketing</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>36</strong></td>
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</tbody>
</table>

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN BUSINESS ADMINISTRATION: A student must complete the following core requirements in addition to a selected option and the General Studies requirements. Transfer students from a two (2) year institution must complete 50% of the required business administration degree courses from Chadron State College. All Business Majors must complete one of the following or equivalent Mathematics Requirement, prior to taking advanced (300/400 level) Finance, Economics and Management courses: MATH 138 Applied Calculus or MATH 142 College Algebra. All Business majors must complete BA 331 Business Communications or equivalent for the General Studies Communication requirement.

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>ACTG 241</td>
<td>Accounting Principles I</td>
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<td>ACTG 242</td>
<td>Accounting Principles II</td>
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<td>B A 336</td>
<td>Business &amp; Economic Statistics</td>
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<td>ECON 232</td>
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<td>FIN 330</td>
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<td>MGMT 230</td>
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<td>MIS 130</td>
<td>Principles of Information Systems</td>
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<td>MIS 332</td>
<td>Decision Support Systems</td>
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<td>MKTG 231</td>
<td>Principles of Marketing</td>
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<tr>
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<td><strong>Core Total</strong></td>
<td><strong>36</strong></td>
</tr>
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</table>

Students pursuing a degree in business are encouraged to complete an internship in business during their junior and senior year.

Accounting Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ACTG 332</td>
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</tr>
<tr>
<td>ACTG 337</td>
<td>Cost Accounting</td>
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<tr>
<td>ACTG 341</td>
<td>Intermediate Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACTG 342</td>
<td>Intermediate Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACTG 430</td>
<td>Personal Income Tax</td>
<td>3</td>
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<tr>
<td>ACTG 431</td>
<td>Corporate/Fiduciary Tax</td>
<td>3</td>
</tr>
<tr>
<td>ACTG 438</td>
<td>Auditing</td>
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<tr>
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<td><strong>Total</strong></td>
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Recommended Electives: In order to enhance employment and graduate school opportunities, the following electives are recommended: ACTG 343, 433, 443.
### Accounting Option: Certified Public Accountant Path

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<tr>
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<td>ACTG 332</td>
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<td>Intermediate Accounting III</td>
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<td>ACTG 430</td>
<td>Personal Income Tax</td>
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<td>ACTG 431</td>
<td>Corporate/Fiduciary Tax</td>
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<td>ACTG 433</td>
<td>Government/Not-for-Profit Actg</td>
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<td>Auditing</td>
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<td>ACTG 443</td>
<td>Advanced Accounting</td>
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</table>

**Additional Business Courses:**
- BA 241 Quantitative Methods                  3
- BA 431 Professional Ethics                  3
- BA 432 Business Law II                     3

**General Studies:** 47

**Electives**

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**Total:** 150

**Recommended:** MBA Degree

### Agri-Business Option

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<tr>
<td>AGR 132</td>
<td>Intro to Animal Science</td>
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<td>AGR 141</td>
<td>Intro to Plant Science</td>
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<td>ECON 334</td>
<td>Agricultural Econ. &amp; Agribusiness</td>
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<td>ECON 338</td>
<td>Agricultural Marketing</td>
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<td>ECON 434</td>
<td>National Agricultural Policy</td>
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<tr>
<td>FIN 335</td>
<td>Agricultural Finance</td>
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**Total:** 56

**Recommended Electives:** In order to enhance employment opportunities, the following electives are recommended: AGR 234, 242, 245, 331, 332, 333; ECON 331; FIN 432.

### Economics/Finance Option

<table>
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<th>Course Title</th>
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<td>ECON 331</td>
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<td>ECON 425</td>
<td>Intermediate Economics Analysis</td>
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<tr>
<td>FIN 331</td>
<td>Financial Markets &amp; Institutions</td>
<td>3</td>
</tr>
<tr>
<td>FIN 339</td>
<td>Personal Finance</td>
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<td>Business Finance II</td>
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<td>FIN 439</td>
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**Total:** 57

### Management Option

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<th>Course Title</th>
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<td>B A 432</td>
<td>Business Law II</td>
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<td>FIN 432</td>
<td>Business Finance II</td>
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<tr>
<td>MGMT 330</td>
<td>Organizational Theory &amp; Behavior</td>
<td>3</td>
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<tr>
<td>MGMT 430</td>
<td>Human Resource Management</td>
<td>3</td>
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<tr>
<td>MGMT 432</td>
<td>Production &amp; Operations Management</td>
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**Total:** 57

### Management Information Systems Option

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<th>Course Code</th>
<th>Course Title</th>
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<td>ACTG 332</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>IST 230</td>
<td>Introduction to Internet Applications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 235</td>
<td>Business Programming</td>
<td>3</td>
</tr>
<tr>
<td>MIS 330</td>
<td>Applied Information Processing</td>
<td>3</td>
</tr>
<tr>
<td>MIS 331</td>
<td>Database Management</td>
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<tr>
<td>MIS 337</td>
<td>E-Commerce</td>
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</tr>
<tr>
<td>MIS 431</td>
<td>Systems Analysis and Design</td>
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**Total:** 57

### Marketing Option

<table>
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<th>Course Title</th>
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<tbody>
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<td>Core Requirements</td>
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<tr>
<td>MKTG 331</td>
<td>Sales Techniques</td>
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<td>MKTG 433</td>
<td>Retailing</td>
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<tr>
<td>MKTG 336</td>
<td>Advertising</td>
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<td>MKTG 338</td>
<td>Buyer Behavior</td>
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<tr>
<td>MKTG 435</td>
<td>Business and Marketing Strategy</td>
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<tr>
<td>MKTG 437</td>
<td>Services Marketing &amp; Management</td>
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<tr>
<td>MKTG 439</td>
<td>Business and Marketing Research</td>
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**Total:** 57
Student Learning Objectives for Bachelor of Science in Education Programs

The student learning objectives for students pursuing a business education degree are:

- To meet the needs of students who desire to teach business and economics in secondary schools.
- To provide graduate programs for students wishing to pursue advanced work in the areas of business education and economics education.

The Degree of Bachelor of Science with a SUBJECT ENDORSEMENT IN BASIC BUSINESS EDUCATION (7-12): A student must complete the following program in addition to the General Studies and Professional Education requirements. Transfer students from a two (2) year institution must complete 50% of the required courses for the major from Chadron State College. All Business Majors must complete one of the following or equivalent Mathematics Requirement, prior to taking advanced (300/400 level) Finance, Economics, and Management courses: MATH 138 Applied Calculus or MATH 142 College Algebra.

ACTG 241 Accounting Principles I ... 3 FIN 330 Business Finance I ... 3
ACTG 242 Accounting Principles II ... 3 MGMT 230 Principles of Management ... 3
BA 336 Business & Economics Statistics ... 3 MGMT 434 Strategic Management ... 3
B A 337 Business Law I ... 3 MIS 330 Applied Information Processing ... 3
ECON 231 Macroeconomics ... 3 MIS 332 Decision Support Systems ... 3
ECON 232 Microeconomics ... 3 MKTG 231 Principles of Marketing ... 3

Total 36

The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN BUSINESS EDUCATION (7-12)*: A student must complete the following program in addition to the General Studies and Professional Education requirements. Transfer students from a two (2) year institution must complete 50% of the required courses for the major from Chadron State College. All Business Majors must complete one of the following or equivalent Mathematics Requirement, prior to taking advanced (300/400 level) Finance, Economics, and Management courses: MATH 138 Applied Calculus or MATH 142 College Algebra.

ACTG 241 Accounting Principles I ... 3 ECON 232 Microeconomics ... 3
ACTG 242 Accounting Principles II ... 3 FIN 330 Business Finance I ... 3
BA 331 Business Communications ... 3 MGMT 230 Principles of Management ... 3
BA 336 Business and Economic Statistics ... 3 MGMT 434 Strategic Management ... 3
BA 337 Business Law I ... 3 MIS 130 Principles of Information Systems ... 3
CTE 431 Intro. to Spec Needs Programs in CTE ... 3 MIS 330 Applied Information Processing ... 3
CTE 434 Prin. & Philosophy of CTE ... 3 MIS 332 Decision Support Systems ... 3
CTE 438 Coord. in Occ. Training Program ... 3 MIS 337 E-Commerce ... 3
ECON 231 Macroeconomics ... 3 MKTG 231 Principles of Marketing ... 3

Total 54

Students pursuing a degree in business are recommended to complete an internship in business during their junior and senior year.

*This Career and Technical Education Endorsement requires related on-the-job experience of either (1) 1,000 clock hours paid employment in business related job or (2) 180 clock hours internship (B A 390).

MINORS IN BUSINESS AND ECONOMICS

Business Minor

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<td>ACTG 242</td>
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<tr>
<td>BA 337</td>
<td>3</td>
</tr>
<tr>
<td>ECON 232</td>
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Total 21

Economics/Finance Minor

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<tr>
<td>ECON 232</td>
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<tr>
<td>ECON 331</td>
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<tr>
<td>ECON 425</td>
<td>3</td>
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<td>FIN 330</td>
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Total 21
Recommended Electives: In order to enhance employment and graduate school opportunities, the following electives are recommended: ECON 334, 338, 430; FIN 339, 432.

Management Information Systems Minor

<table>
<thead>
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<tr>
<td>MIS 130</td>
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<tr>
<td>MIS 235</td>
<td>Business Programming</td>
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<td>MIS 330</td>
<td>Applied Information Processing</td>
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<tr>
<td>MIS 331</td>
<td>Database Management</td>
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Marketing Minor

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<th>Title</th>
<th>Credits</th>
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<tr>
<td>B A 336</td>
<td>Business &amp; Economic Statistics</td>
<td>3</td>
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<tr>
<td>MKTG 231</td>
<td>Principles of Marketing</td>
<td>3</td>
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<tr>
<td>MKTG 331</td>
<td>Sales Techniques</td>
<td>OR</td>
</tr>
<tr>
<td>MKTG 433</td>
<td>Retailing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 21

COURSE DESCRIPTIONS

Accounting

ACTG 241 Accounting Principles I
Introduction to the process of recording financial data and preparing periodic financial statements and special reports for the sole proprietorship and partnership.

Credit 3 hours

ACTG 242 Accounting Principles II
Continuation of Accounting Principles I, emphasizing the accounting process in the corporation. Includes cash flow, managerial accounting, and financial statement analysis. Prerequisite: ACTG 241 or equivalent.

Credit 3 hours

ACTG 332 Accounting Information Systems
Using accounting system software on the personal, work group, and organizational levels including transaction processing systems, decision support systems, and internal control systems. Database is linked to organizational systems for business types of sole proprietorships, partnerships, corporations, and non-profit accounting systems. Prerequisite: ACTG 241 or equivalent.

Credit 3 hours

ACTG 337 Cost Accounting
Manufacturing cost procedures including job-order and process cost systems, planning and control, budgeting and standard costing, and analysis of costs and profits. Prerequisites: ACTG 242 or equivalent.

Credit 3 hours

ACTG 341 Intermediate Accounting I
Investigates theoretical accounting concepts relating to financial statement preparation and an indepth study of accounting concepts related to assets. Prerequisites: ACTG 242 or equivalent.

Credit 3 hours

ACTG 342 Intermediate Accounting II
Accounting concepts relating to non-current assets and liabilities, with emphasis on stockholder’s equity in the study of corporate accounting. Prerequisites: ACTG 341 or equivalent.

Credit 3 hours

ACTG 343 Intermediate Accounting III
Accounting theory and practical application of accounting problems presented in special topics. Accounting issues concerning leases, pensions, income taxes, earnings per share, cash flows, and interim and segment reporting are included. Prerequisite: ACTG 342 or equivalent.

Credit 3 hours

ACTG 430 Personal Income Tax
Federal income and state tax statutes, tax forms and regulations. Preparation of individual income tax returns and partnership returns. Computer software packages may be included.

Credit 3 hours
ACTG 431 Corporate/Fiduciary Tax  
Basic principles of federal income taxation for partnerships, corporations, and fiduciaries. Tax preparation software packages may be included. Prerequisite: ACTG 242 or equivalent.

ACTG 433 Governmental and Not-For-Profit Accounting  
Specialized accounting procedures designed for governmental and non-profit entities including fund accounting, budgetary accounting, and reporting procedures. Non-profit accounting system software may be used to record transactions for these governmental and non-profit entities. Prerequisite: ACTG 242 or equivalent.

ACTG 438 Auditing  
Duties and responsibilities of auditors, how to conduct an audit, preparation of audit reports, and special auditing problems. Standardized auditing software may be used to conduct a simulated audit for a business entity. Prerequisite: ACTG 342 or equivalent.

ACTG 443 Advanced Accounting  
Accounting theory and problems dealing with corporate combinations and consolidations and other specialized financial accounting topics. Prerequisites: ACTG 342 and MIS 332 or equivalencies.

ACTG 450 Topics in Accounting  
Selected topics on specialized areas and/or contemporary issues in accounting.

Business Administration

B A 241 Quantitative Methods  
Business and economic concepts, techniques, models, analysis, and applications with emphasis on quantitative measurements for resource utilization, production, processing, marketing, and management. Prerequisite: Department’s Mathematics Requirement or equivalent.

B A 270 Topics in Business  
Special topics appropriate for lower division credit. May be repeated with different emphasis for up to six hours of credit.

B A 331 Business Communications  
Designed to assist students in acquiring the knowledge and skill necessary for effective communication through both the spoken and written word. Grammar, letter writing, formal and informal report writing, and the job application process.

B A 336 Business and Economic Statistics  
Statistical analysis of business and economic data used in business and how this analysis aids in making sound business decisions.

B A 337 Business Law I  
Introductory business law including the legal and social environment of business, consumer protection, contracts, personal property and bailments, and sales and leases of personal property.

B A 390 Internship in Business  
Provides practical work experience in business. Interested students should contact the Internship & Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.
B A 400 Independent Study or Research
Credit 1-3 hours
Research in an area of special interest or need. The topic and the amount of work required are determined by the number of credit hours. Permission of Instructor, Department Chair, and Dean are required prior to registration.

B A 431 Professional Ethics
Credit 3 hours
Philosophical moral theories and rules or standards governing the conduct of the members of a profession. Comprises principles, standards, and social, economic, legal, political, ethical, and philanthropic responsibilities that guide behavior in society. An application of ethical theories in solving professional ethics issues.

B A 432 Business Law II
Credit 3 hours
Continuation of Business Law I covering negotiable commercial paper, debtor-creditor relations and risk management, agency and employment, business organizations and real property and estates. Prerequisite: BA 337 or equivalent.

Economics

ECON 130 Survey of Economics
Credit 3 hours
Basic microeconomic and macroeconomic theories and concepts. Oriented towards the study of households, firms, and governments within markets for goods and services and resources.

ECON 231 Macroeconomics
Credit 3 hours
Economy in the aggregate including gross domestic product and its components, employment, inflation, business fluctuations, economic growth, monetary policy, fiscal policy, budget deficit, and public debt with primary application to the United States economy.

ECON 232 Microeconomics
Credit 3 hours
Components with the economy devoted to households, firms, governments, markets for products and services, and markets for resources. Analysis of supply and demand, pricing functions, and income distribution with application to United States economy.

ECON 331 Money and Banking
Credit 3 hours
The nature and operation of the money, banking, and financial institution systems with application of modern monetary and banking theories to current domestic problems. Prerequisites: Department’s Mathematics Requirement; ACTG 241 and ECON 231 or equivalents.

ECON 332 International Economics and Societies
Credit 3 hours
The development, understanding, and application of basic economic concepts and theories related to international economics, global trade, and variations between and among countries and their cultures. Will deal with different types of economic and political systems, types of markets, exchange rates, trade policies, trade agreements such as NAFTA, GATT(WTO), FTAA, and the economic reasons and impacts of globalization.

ECON 334 Agricultural Economics and Agribusiness
Credit 3 hours
Basic economic principles and theories focusing on product markets, resource markets, production costs, and market structure for farms, ranches and input sectors within agriculture. Government’s role and impact are also studied. Prerequisites: Department’s Mathematics Requirement; ECON 231 and 232 or consent of the instructor.

ECON 338 Agricultural Marketing
Credit 3 hours
Market structure, conduct, and performance factors within the domestic and global marketing areas with specific emphasis on the farm and ranch components and agricultural input markets. Specific attention involves governments’ roles in marketing, market basket, price spreads, price analysis, futures and options markets, and contract marketing. Prerequisites: Department’s Mathematics Requirement, ECON 231, 232, 334, and FIN 335 or consent of the instructor.

ECON 425 Intermediate Economics Analysis
Credit 3 hours
Application and problem solving of macroeconomics to aggregate variables of employment, global trade, interest ratios, debt and monetary, trade and fiscal policies. Application and problem solving of microeconomics with analysis of households, firms, governments in the product market and resource markets. Prerequisites: Department’s Mathematics Requirement; ECON 231, 232.
ECON 430 Community Economic Development Credit 3 hours
An economic analysis of the structure, problems and nature of communities, and revitalization. The dimensions and causes of poverty and alternatives for development will be discussed. Some current economic development programs will be examined. Prerequisites: Department’s Mathematics Requirement; BA 336 and ECON 232, or equivalencies.

ECON 434 National Agricultural Policy Credit 3 hours
The basics of agricultural production units within the domestic and global markets with the focus on the dynamics of the agricultural sector and economic system. Analysis focuses on traditional and current agricultural and economic policies within the context of positive and normative economics and a capstone course for agribusiness majors. Prerequisites: Department’s Mathematics Requirement; ECON 334, 338; or consent of the instructor.

ECON 460 Topics in Economics Credit 3 hours
Topics or seminars will be selected as needed to keep students abreast of contemporary and economic areas.

Finance

FIN 330 Business Finance I Credit 3 hours
An introduction to the basic concepts of finance, including measures of return, risk and time value of money. These are then applied to macro aspects of finance, especially stocks and bonds. This is followed by the application to, and analysis of, firms, especially financial statement analysis, capital budgeting and risk analysis. Prerequisites: ACTG 241, 242, and ECON 232 or equivalencies.

FIN 331 Financial Markets and Institutions Credit 3 hours
Inquiry into the various financial markets and institutions operating in the U.S. and international economy. Emphasis is placed on providing the analytical tools needed to assess financial institution response to both micro and macroeconomic factors. Prerequisite: FIN 330 or equivalent.

FIN 335 Agricultural Finance Credit 3 hours
Economic theories related directly to the market for capital and associated production cost with application to the farm, ranch, and agricultural sectors. Specific study deals with financial statements, financing enterprises, and sources of agricultural credit including private and governmental lending institutions. Prerequisites: Department’s Mathematics Requirement; ACTG 241.

FIN 339 Personal Finance Credit 3 hours
Basic principles of finance as relating to the individual, including an introduction to investments, insurance, taxes, consumer purchasing, real estate, financial planning and recordkeeping, retirement, and estate planning.

FIN 432 Business Finance II Credit 3 hours
Continuation of micro aspects of finance. Topics include: risk analysis, dividend policy, long-term financing, short-term management with focus on inventory, receivables, cash balance, mergers, divestitures, and international finance. Prerequisites: BA 336 and FIN 330 or equivalencies.

FIN 439 Investments Credit 3 hours
Provides an understanding of active portfolio evaluation and management, including the following: the investment environment, portfolio theory, capital asset pricing model and arbitrage pricing theory, fixed-income securities, equities, and derivatives. Prerequisite: FIN 330 or equivalent.

Management

MGMT 230 Principles of Management Credit 3 hours
Introduction to theories, principles, and functions of current management practice. Special focus is given to management for a world in transition.
MGMT 330 Organizational Theory and Behavior Credit 3 hours
Examines implications of organizational theory and organizational behavior for achievement of effective management. Organizational theory topics (a macro approach) include: structural design and its adaptations to goals, strategy, technology, environment, uncertainty, and social change. Organizational behavior topics (a micro approach) include: motivation, learning, leadership, communications, power and politics, decision making, and planned change. Prerequisite: MGMT 230 or equivalent.

MGMT 430 Human Resource Management Credit 3 hours
Principles and techniques of personnel management, including legislation affecting employers today, and practical applications of various personnel functions. The course covers the personnel functions of procurement, development, compensation, integration, and separation. Prerequisite: MGMT 230 or equivalent.

MGMT 432 Production and Operations Management Credit 3 hours
Methods for managing ongoing operations of a firm, with emphasis on operations of a manufacturing organization with applications to service organizations. Topics include forecasting, master production scheduling, material requirements planning, purchasing, just-in-time inventory control, shop floor control, quality control, maintenance, and productivity. Prerequisites: BA 241, 336; and MGMT 230 or equivalencies.

MGMT 434 Strategic Management Credit 3 hours
Capstone course for all business administration majors, providing a conceptual and methodological basis for integrating knowledge of the various business disciplines. Skills developed are applied to formulation and implementation of strategic and operating plans. The case method is used extensively throughout the course. Prerequisite: Senior standing and all business core courses completed.

MGMT 460 Seminar/Current Topics in Management Credit 3 hours
Management theory and practice currently driving change in the management field, addressing approximately five timely subjects selected for significance of impact on management thought and practice. Topics may change with each course offering. Prerequisites: MGMT 230 or equivalent and Senior/Graduate Standing.

Management Information Systems

MIS 130 Principles of Information Systems Credit 3 hours
Information systems concepts and principles applied to business uses of technology. Conceptual areas include: systems and modeling, hardware/software, data organization and information, networks and telecommunications, business information systems, and systems development.

MIS 235 Business Programming Credit 3 hours
Introduction to intermediate level programming techniques including both traditional structured design and elements of web programming. Concepts are studied through the development of common business-oriented applications within an interactive development environment, emphasizing testing and debugging techniques.

MIS 330 Applied Information Processing Credit 3 hours
Development of proper techniques in word processing using current software applications; practical application of various information processing tools, such as telecommunications, network utilities, multi-media, and desktop publishing; development of organizational decision making skills; and creation of a portfolio (MIS).

MIS 331 Database Management Credit 3 hours
Introduction to the design and use of databases in meeting business information needs. Topics include database planning, conceptual design, the relational data model, structured query language (SQL), and related concepts of enterprise-wide data management. The concepts are studied in part with projects involving the use of a current database management system. Prerequisite: MIS 130 or equivalent.

MIS 332 Decision Support Systems Credit 3 hours
Designed to prepare students to effectively and efficiently use an integrated software package in order to improve personal and professional productivity.
MIS 337  E-Commerce  Credit 3 hours
Examines how modern organizations can leverage emerging technologies to create new opportunities for business success. Topics include an introduction to the concepts of electronic commerce as facilitated by the Internet, World Wide Web, and related technologies; a thorough understanding of information technology elements that create the building blocks of electronic commerce, and the identification, use and management of emerging technologies.

MIS 431  Systems Analysis and Design  Credit 3 hours
An understanding of the phases of the Systems Development Life Cycle (SDLC), including techniques to investigate system problems, determine requirements, identify possible solutions, perform feasibility studies and cost analysis, and oversee the development of a new system or the reengineering of an existing system. An understanding of the human and technical factors in the analysis and design of information systems will also be addressed. Prerequisites: MIS 130 and 235 or equivalencies.

Marketing

MKTG 231  Principles of Marketing  Credit 3 hours
Examines the marketing mix (price, product, promotion, and channels of distribution) in a dynamic social, economic, and political environment, with focus on the satisfaction of customer needs while achieving organizational objectives.

MKTG 331  Sales Techniques  Credit 3 hours
Techniques of professional selling are the primary emphasis, in addition to the role of the sales professional in the organization. Topics include individual and/or group sales presentations, relationship marketing, selection and management of sales personnel.

MKTG 336  Advertising  Credit 3 hours
The use of advertising in marketing programs. Formulation, management, and evaluation of communication channels to achieve marketing objective. Advertising design, media selection, public relations, sales promotion, and advertising plans. Prerequisite: MKTG 231 or equivalent.

MKTG 338  Buyer Behavior  Credit 3 hours
The application of conceptual material to marketing strategies to reach both consumer and industrial buyers. Incorporates the behavioral sciences to marketing including theoretical concepts of buyer behavior. Prerequisite: MKTG 231 or equivalent.

MKTG 433  Retailing  Credit 3 hours
Traditional and contemporary retailing institutions are analyzed. Team projects include the options of preparing a retail business plan, developing a retail topic, and conducting primary research. Prerequisite: MKTG 231 or equivalent.

MKTG 435  Business and Marketing Strategy  Credit 3 hours
A capstone course designed to acquaint the student with current business and marketing problems. Current readings on related business materials, in-depth studies of business/marketing plans and strategies, and/or business cases/business simulation. Prerequisites: MKTG 231 and MGMT 230; and Senior status, or equivalencies.

MKTG 437  Services Marketing and Management  Credit 3 hours
Acknowledgment and emphasis on the essential uniqueness of services marketing and management, and analyzing the nature of services, the service environment, the services marketing mix, and the implementation of service strategies. Prerequisite: MKTG 231 or equivalent.

MKTG 439  Business and Marketing Research  Credit 3 hours
Examines marketing research information for management decision making. Provides an understanding of marketing research. Examines alternative research strengths and weaknesses. Prerequisites: BA 336 and MKTG 231 or equivalencies.
DEPARTMENT OF COUNSELING, PSYCHOLOGY, AND SOCIAL WORK

The Counseling program is a graduate degree only. Requirements are detailed in the Graduate section of this Bulletin.

Psychology

Student Learning Outcomes

The student learning outcomes for Psychology are:

• To acquire skills, attitudes, and knowledge for success in diverse professional and educational careers.
• To recognize, identify, and articulate research methods and psychological knowledge.
• To be able to apply current standards in psychological writing, testing, statistical analysis, and ethics.

The Degree of Bachelor of Arts with a SUBJECT MAJOR IN PSYCHOLOGY:

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<td>PSYC 131</td>
<td>General Psychology</td>
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<tr>
<td>PSYC 233</td>
<td>Psychology of Addiction</td>
<td>3</td>
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<tr>
<td>PSYC 234</td>
<td>Cognitive Psychology</td>
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<td>PSYC 331</td>
<td>Social Psychology</td>
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<td>Organizational Psychology</td>
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<td>PSYC 336</td>
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<td>PSYC 341</td>
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<tr>
<td>PSYC 421</td>
<td>Culture &amp; Psychology</td>
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Total 36

MINORS IN PSYCHOLOGY

Addictions

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<td>Developmental Psychology</td>
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<td>PSYC 421</td>
<td>Culture &amp; Psychology</td>
<td>3</td>
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<td>PSYC 432</td>
<td>Research Design in Psychology</td>
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<tr>
<td>PSYC 435</td>
<td>Theories of Personality</td>
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<tr>
<td>PSYC 437</td>
<td>Case Mgmt &amp; Interviewing Model</td>
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<tr>
<td>PSYC 439</td>
<td>Group Processes</td>
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Total 21

Psychology

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<td>PSYC 331</td>
<td>Social Psychology</td>
<td>3</td>
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<tr>
<td>PSYC 422</td>
<td>Psych Factors in Productivity &amp; Creativity</td>
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<tr>
<td>PSYC 332</td>
<td>Child Psychology</td>
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<tr>
<td>PSYC 336</td>
<td>Adolescent Psychology</td>
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<tr>
<td>PSYC 334</td>
<td>Developmental Psychology</td>
<td>3</td>
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<tr>
<td>PSYC 432</td>
<td>Research Design in Psychology</td>
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* Upper level electives ........................................ 3

Total 21

* Electives: May include any course with a Psychology prefix; Sociology 435 (Advanced Social Psychology); or a course approved by the student’s advisor and the Chair of the Department of Counseling, Psychology, and Social Work.

Students interested in completing Certification Alcohol Drug Abuse Counselor (CADAC) course work should contact their advisor or the Chair of the Department of Counseling, Psychology, and Social Work.
### COURSE DESCRIPTIONS

#### Psychology

**PSYC 131  General Psychology**  
Credit 3 hours  
An overview of psychology, with introduction to past and contemporary perspectives and research findings in sensation and perception, motivation and emotion, learning and memory, thinking and intelligence, and sex and gender issues. Theoretical perspectives and research findings in developmental, abnormal, social, health, and industrial/organizational psychology are also covered.

**PSYC 231  Educational Psychology**  
Credit 3 hours  
Current research and theories about human learning and development are applied to school learning and instruction. Includes human learning, cognition, development, individual differences, motivation, learner-centered approaches to instruction, as well as standardized and teacher-constructed tests. Fifteen hours of school observation are required. Prerequisite: EDUC 131 with a grade of C or better.

**PSYC 233  Psychology of Addictions**  
Credit 3 hours  
The course focuses on the pharmacology of drugs, basic physiology, and the effects of drug use on the human body. Etiological, behavioral, cultural, and demographic aspects of alcohol/drug use are studied along with signs, symptoms, and behavior patterns of the abuser. Prerequisite: PSYC 131.

**PSYC 234  Cognitive Psychology**  
Credit 3 hours  
Readings, discussions, and writing projects explore diverse topics in cognition including psycholinguistics, mental representation and computation; models of artificial intelligence; perception; memory; thinking and problem solving; motivation; and consciousness. Prerequisite: PSYC 131.

**PSYC 331  Social Psychology**  
Credit 3 hours  
Scientific study of the impact of social influence on human thought and behavior. Students are introduced to research methods and general theoretical approaches. Topics include the effects of attributions and attitudes on cognitive processes and behavior, the psychological effects of culture and gender, and the nature of prejudice, aggression, interpersonal attraction, and helping behavior. Prerequisite: PSYC 131.

**PSYC 332  Child Psychology**  
Credit 3 hours  
Introduction to the principles of physical, cognitive, linguistic, and social development in children. Prerequisite: PSYC 131.

**PSYC 334  Developmental Psychology**  
Credit 3 hours  
General introduction to the major theories and research findings in developmental psychology, including biological, cognitive, and psychosocial development from birth through the play years, school years, adolescence, and adulthood. Prerequisite: PSYC 131.

**PSYC 336  Adolescent Psychology**  
Credit 3 hours  
Reviews the major theories and research findings related to adolescent development, including a review of the physical, cognitive, and socio-emotional changes that take place during adolescence and the influence of family and interpersonal relationships. Prerequisite: PSYC 131 or EDUC 131 or the Instructor’s permission.

**PSYC 390  Internship in Psychology**  
Credit 1-6 hours  
Provides practical experience in psychology. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>PSYC 400</td>
<td>Independent Research or Study</td>
<td>1-3 hours</td>
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<tr>
<td></td>
<td>Guided independent research in the area of psychology. The number of credit hours varies in accordance with the topic and the amount of work required. Prerequisite: Permission of the advisor and the Dean of the School of Professional and Graduate Study.</td>
<td></td>
</tr>
<tr>
<td>PSYC 401</td>
<td>Topics in Psychology</td>
<td>1-3 hours</td>
</tr>
<tr>
<td></td>
<td>Individual academic needs of those registered in this course will be accommodated. Normally, the instructor will select the topic in psychology. Prerequisite: Permission of the advisor.</td>
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<tr>
<td>PSYC 421</td>
<td>Culture and Psychology</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>The impact of culture on behavioral and psychological processes, with analysis of some of the antecedents of cross-cultural conflicts. Prerequisite: PSYC 131.</td>
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<tr>
<td>PSYC 422</td>
<td>Psychological Factors in Productivity and Creativity</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Philosophical and practical study of human creativity, including definitional and measurement issues, origins of creativity, effects of personality and environment on creativity, relationship between creativity and intelligence, and other special topics. Prerequisite: PSYC 131.</td>
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<tr>
<td>PSYC 430</td>
<td>Introduction to Physiological Psychology</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Surveys neural morphology and physiology and addresses biology’s multifaceted role in fundamental psychological processes. Prerequisite: PSYC 131.</td>
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<tr>
<td>PSYC 432</td>
<td>Research Design in Psychology</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Introduction to the research cycle in psychology. Students develop research questions, choose research methodologies, collect and analyze data, and report findings through written reports and oral presentations. Qualitative and quantitative research designs, ethical issues in research and a discussion of the philosophical issues related to social science research. Prerequisites: PSYC 131 and PSYC 438.</td>
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<tr>
<td>PSYC 433</td>
<td>Abnormal Psychology</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Introduction of abnormal psychology. Survey of major mental and behavioral disorders by classification and categorical domains, and proposed genetic, neurological, behavioral, cognitive, emotional, social, and interpersonal influences that might contribute or be causative factors of mental health disorders. Prerequisite: PSYC 131.</td>
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<tr>
<td>PSYC 434</td>
<td>Organizational Psychology</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Examines work-group behavior, developing individuals in organizations, appropriate supervisory behavior, intergroup relations, and managing change within organizations. Explored from both an individual perspective and an organizational perspective, clarifying major theories and their applications. Prerequisite: PSYC 131.</td>
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</tr>
<tr>
<td>PSYC 435</td>
<td>Theories of Personality</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Major theoretical orientations and research findings in personality psychology. Prerequisite: PSYC 131.</td>
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<tr>
<td>PSYC 437</td>
<td>Case Management and Interviewing Model</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Instruction and practice in case planning and management as well as counseling and problem solving skills. Ethical and legal implications in clinical work will be presented. Prerequisite: PSYC 131.</td>
<td></td>
</tr>
<tr>
<td>PSYC 438</td>
<td>Introduction to Behavioral Statistics</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Computational and graphical techniques to descriptive and inferential data analysis. Primary topics include the scales of measurement, shapes and types of distributions, measures of central tendency and variability, correlation, regression, hypothesis testing; analysis of variance, interval estimation, sampling, and probability theory. Cross-listed as SW 438.</td>
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<tr>
<td>PSYC 439</td>
<td>Group Processes</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Practice and theory supporting group work of many types taught through lectures and experiences. Prerequisite: PSYC 131.</td>
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</tbody>
</table>
SOCIAL WORK

The admissions policy of the Chadron State College Social Work Program is to accept all qualified students within the limits of its resources, facilities, and mission. Qualified students are admitted without regard to age, race, marital status, gender, religion, national origin, or disability. Educational policies, scholarship and loan programs, and other programs and activities are administered without discrimination. Chadron State College offers a B.A. degree with a comprehensive major in social work which is accredited by the Council on Social Work Education. Graduates from this program are prepared to practice at the beginning professional level.

Objectives

Preparation of students:
1. for beginning generalist professional practice with individuals, families, small groups, organizations and communities, including rural communities.
2. to develop an identity which will incorporate the values and ethics of the social work profession.
3. for practice with diverse populations.
4. as beginning social work generalists who link social work research and social service practice.
5. for lifelong learning and critical thinking through an educational process combining a liberal arts foundation with professional social work education.
6. for graduate education in social work.

The Social Work Program consists of pre-professional studies in the freshman and sophomore years and the professional major which is usually completed during the student’s junior and senior years of study. Pre-professional studies include the General Studies courses required of all CSC students, PSYC 131; SW 231, 300, 333; and SOC 231.

Students considering Social Work should consult the social work faculty early in their academic career to insure that the necessary prerequisite coursework is completed prior to admission to the professional component of the program.

Admission to the Professional Program

Admission to the Chadron State College Social Work Program is determined by the following criteria:
1. Sophomore standing.
2. Cumulative grade point average of 2.00.
3. Completion of Application for Major form. The form is available from the departmental office assistant.
4. Completion of formal application for Social Work Program. This includes the information form, three letters of reference and a short autobiographical statement.

The Chadron State College Social Work Program does not grant academic credit for life experience for any social work course requirements. A student who does not meet the academic requirements may petition the admissions committee to waive the requirement after discussion with his/her advisor.

The application for admission to the Social Work Program will be reviewed by the admissions committee. Action on the admission request will be based upon the recommendation of the admissions committee. Students are notified of the decision of the admissions committee by an official letter from the Director of the Social Work Program. Students who are not accepted, or are accepted conditionally, are requested to schedule an appointment with the program director to discuss their situation. Students who are not accepted may appeal the decision by initiating the appeal process as outlined in the Social Work Program Student Handbook.

Transfer Students

Students transferring after two years from Nebraska community colleges and other approved community colleges may be conditionally admitted to the professional program for one semester. Their application for admission to the professional program must be approved before they can register for any professional classes beyond their first semester at Chadron State. Students wishing to transfer credits from another institution must submit an official transcript to Chadron State College for evaluation. For Social Work program courses, the final decision concerning content and acceptability of the course rests with the Director of the Social Work Program.
Termination Policy

A student may be terminated from the Social Work Program due to failure to meet generally accepted standards of professional conduct or personal integrity, or for inappropriate or disruptive behavior towards colleagues, faculty, or staff at School or in field placement for professional practice. Examples of nonprofessional conduct include, but are not limited to, consistent failure to demonstrate effective interpersonal skills necessary for forming professional helping relationships, inability to demonstrate nonjudgmental attitude, and inability to allow client self-determination.

Students who are dismissed from the Social Work Program may appeal the decision by initiating the appeal process as outlined in the Social Work Program Student Handbook.

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN SOCIAL WORK: A student must complete the following program in addition to the General Studies requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Major Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 121 &amp; 121L Human Anat &amp; Phys &amp; Lab</td>
<td>3</td>
<td>SW 337 Human Behavior in the</td>
</tr>
<tr>
<td>PSYC 131 General Psychology</td>
<td>3</td>
<td>Social Environment II</td>
</tr>
<tr>
<td>SOC 231 Introduction to Sociology</td>
<td>3</td>
<td>SW 432 Social Work Practice &amp; Methods I</td>
</tr>
<tr>
<td>SOC 343 Research Methodology</td>
<td>3</td>
<td>SW 433 Social Work Practice &amp; Methods II</td>
</tr>
<tr>
<td>SW 231 Introduction to Social Work</td>
<td>3</td>
<td>SW 434 Social Welfare Policy II</td>
</tr>
<tr>
<td>SW 333 Human Diversity</td>
<td>3</td>
<td>SW 435 Social Work Practice &amp; Methods III</td>
</tr>
<tr>
<td>SW 334 Social Welfare Policy I</td>
<td>3</td>
<td>SW 460 Social Work Practicum I</td>
</tr>
<tr>
<td>SW 336 Human Behavior in the Soc Environ</td>
<td>3</td>
<td>SW 461 Social Work Practicum II</td>
</tr>
</tbody>
</table>

*Select nine (9) credit hours from the following electives: SW 331, 332, 335, 338, 339, 340, 430, 436.

Students pursuing a masters degree in social work are strongly encouraged to take a social statistics course. Students who plan to practice social work in the Nebraska Panhandle service area are also strongly encouraged to take Spanish and Lakota culture and language courses.

COURSE DESCRIPTIONS

SW 231 Introduction to Social Work Credit 3 hours

The history of social work; Social Work defined as a profession based on knowledge, values, and skills; discussion of settings where social work is practiced; a comprehensive view of the demands and expectations of the profession as it relates to the practitioner.

SW 331 Services to Children and Families Credit 3 hours

Needs of children and families and services appropriate to satisfy these needs. Focuses on causes of difficulties, strategies for treatment, and family therapy. An extended field trip to agencies will provide an opportunity for on-site observation. Prerequisite: SW 231.

SW 332 Services to Elderly and Differently Ablled Credit 3 hours

Needs of the elderly as well as the physically and mentally differently abled. Current services and alternatives will be considered. Myths and values will be discussed along with specific treatment modalities. Prerequisite: SW 231.

SW 333 Human Diversity Credit 3 hours

Social issues and theories related to the life experience of African Americans, Native Americans, Asian Americans, and Hispanic Americans, including cultures and heritage and other social groups such as women and sexual minorities in relation to conflict resolution, social justice, and building community in a pluralistic society. Prerequisite: SW 231.

SW 334 Social Welfare Policy I Credit 3 hours

Process of social policy development as related to human need, with emphasis on high-risk groups. Studies historical and social context, value assumption, and skills required for policy formulation and analysis. Prerequisite: SW 231.
SW 335  Social Work in a Rural Setting  Credit 3 hours
Development of knowledge and skills for a generalist approach to provide human services in the rural community. The special considerations and challenges of working in a small town atmosphere where various role relationships are developed with those being served. Examples include rural problems of housing, poverty, boomtown, geographic isolation, aging, health, and racism. Prerequisite: SW 231.

SW 336  Human Behavior and the Social Environment I  Credit 3 hours
Human behavior and development from a social systems approach as affected by biological, cultural, environmental, and psycho-social factors. Emphasis is on the roles of individual, family, small group, organization, and community in human behavior as related to practice areas. Cultural, ethnic, and lifestyle diversity and their effects on the development of human systems is stressed. Prerequisite: SW 231. Must be taken with or after BIOL 121/121L.

SW 337  Human Behavior in the Social Environment II  Credit 3 hours
Continuation of Social Work 336. Extends study of the influence of biological, sociological, and psychological events and dynamics on the development of human systems of all sizes over their life span. Prerequisite: SW 231 and 336.

SW 338  Cross Cultural Practice Skills  Credit 3 hours
How to modify generalist practice skills to practice cultural competence with people of color. Includes a historical context of social service interventions, current areas of need, and skills required to provide social work interventions within a cross-cultural setting. The populations included in this course are Native Americans, African Americans, Hispanic Americans, and Asian Americans. Prerequisite: SW 231.

SW 339  Alcohol and Substance Abuse  Credit 3 hours
Introductory course to studies in alcohol and substance use, abuse, and dependency, including the physical and pharmacological effects on the human body resulting from the use and abuse of alcohol and other substances. Specific focus will include: alcohol use, alcohol abuse, alcohol dependence, the disease concept, social issues, and other chemicals abuse and dual abuse or dependency. Social work knowledge and skills will be emphasized throughout the course. Prerequisite: SW 231 and 336.

SW 340  Mental Health Social Work  Credit 3 hours
A knowledge base for beginning social work practice in the field of mental health. Introduction to theories of mental health and concepts of: mental-health illnesses, determination of need, service systems, scope and variety of interventive methods, role of the interdisciplinary team, evaluation, and impact of discrimination. Prerequisite: SW 231 and 336.

SW 400  Independent Study/Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of Instructor and Dean is required.

SW 430  Topics in Social Work  Credit 1-3 hours
Special topics in Social Work. May be repeated with a change of emphasis. Prerequisite: Permission of Instructor.

SW 432  Social Work Practice and Methods I  Credit 3 hours
Methods of generalist practice including the principles and techniques used in various types of interviews. A professional systems approach will be explored and demonstrated to prepare students to use social work knowledge, values, and skills through the interview process. Prerequisites: SW 231 and 336 or concurrently with SW 336.

SW 433  Social Work Practice and Methods II  Credit 3 hours
A continuation of the practice sequence. Includes the methods of group work and other work from a generalist perspective. Prerequisite: SW 432.

SW 434  Social Welfare Policy II  Credit 3 hours
A continuation of SW 334. Explores policy and service issues in various fields of practice. Emphasis upon refining policy making and organizational skills for specific delivery systems. Prerequisite: SW 334.
SW 435  Social Work Practice and Methods III  Credit 3 hours
A continuation of the practice sequence; knowledge and application of basic concepts, analytical tools, and practice wisdom toward understanding the issues and processes involved in community organization, social planning, and social work administration as intervention methods in generalist social work practice. Special emphasis will be given to the role macro practice may play in dealing with the needs of minorities, and those undergoing extensive discrimination because of race, ethnicity, creed, and sex. Prerequisite: SW 434.

SW 436  Forensic Social Work  Credit 3 hours
Application of social work skills and principles to questions and issues relating to law and the justice system. Working with criminals in clinics, prisons, juvenile and adult services, corrections, court mandated treatment and psychiatric hospitals for the criminal defendants being evaluated and treated on issues of responsibility and competence to stand trial. Prerequisite: SW 231, 336, and 337.

SW 438  Introduction to Behavioral Statistics  Credit 3 hours
Computational and graphical techniques to descriptive and inferential data analysis, including the scales of measurement, shapes and types of distributions, measures of central tendency and variability, correlation, regression, hypothesis testing; analysis of variance, interval estimation, sampling, and probability theory. Cross-listed as PSYC 438.

SW 460  Social Work Practicum I  Credit 4 hours
Experience in a social service agency under professional supervision. The program will assist students who have met all prerequisites, but cannot guarantee student placement. Student interviews are negotiated with a field agency. Students should be advised that background checks may be required for work with certain populations in placement. Prerequisite: Senior standing and permission of Instructor or Chair.

SW 461  Social Work Practicum II  Credit 1-4 hours
Continuation of supervised practice in SW 460. May be repeated. Prerequisite: All required social work courses and permission of Instructor or Chair.

DEPARTMENT OF EDUCATION

Philosophy

The faculties of all Departments of Chadron State College act upon a set of beliefs which reflect the importance placed upon the preparation of qualified professional educators. Education in a democracy is accepted as the most important human activity for the maintenance, perpetuation, and advancement of the society.

The educational unit of Chadron State College is dedicated to the development of visionary leaders. The program recognizes the institutional responsibility of developing leadership which facilitates proactive behaviors in educators, for educational services to the public and non-public as well as the rural, frontier, and urban sectors. The campus reflects a sensitivity to the need of being a social model, both flexible and adaptable, to the pluralistic and multicultural nature of the dominant society.

Students are valued as unique individual learners, each wanting to learn and also capable of making good learning decisions. Each student is a client to be served by the staff of CSC and in turn the student will serve others after graduation.

Through the use of effective human relations skills, the members of the faculty function as role models for the students they serve. The effective teacher is encouraging, empathetic, creative, involved, emotionally mature, and equally interested in content and people. Teachers facilitate their own growth and development while competently promoting growth in others through effective assessment and evaluation.

The educational curriculum contains courses designed to meet the needs and interest of students. Efforts are made to respond to the dynamic conditions of society through programs that are both traditional and innovative as well as specialized and exploratory. The curriculum includes elements that promote critical thinking and contribute to life-long learning in a global society.
The methods of instruction are planned to be consistent with sound theory and current research findings. The individual faculty member is free to use varied approaches and personalized techniques in instruction. In creating a non-threatening learning climate, allowances for the learning styles are encouraged and responded to through appropriate teaching styles and open communication among all participants. Learning is believed to be inherently joyful and efforts toward developing and maintaining this end are supported. The demands of the content of the subject are not diminished in the teaching effort which will produce the greatest positive change.

Student Learning Outcomes

The student learning objectives of the Department of Education are:

• To promote a positive professional attitude within those who participate in and complete the teacher education programs; this attitude will be evident in a life long commitment as a visionary leader and in the facilitation of learning for others.
• To extend the intellectual inquisitiveness of those serving as educators through the development of higher levels of cognitive functioning.
• To develop skills in creating and implementing curricula which meet the needs of learners through effective communication and positive interpersonal relationships.
• To help education majors interpret and utilize current theory and research findings which enhance individualized learning consistent with varied and acceptable learning styles and teaching styles.
• To provide the most highly qualified educators capable of serving all learners, including those with exceptional needs and those from multiethnic/racial backgrounds, in both subject content and social areas.

The Visionary Leader Model

Chadron State College’s professional preparation program (Teacher Education Program) is designed to produce visionary leaders. Visionary leaders inherit our profession’s quintessential traditions and tools, but especially visionary leaders are made aware of the best contemporary educational research and developments. We bequeath a vital educational vision - one that honors both tradition and innovation - to our students.

The model is depicted by three interlocking circles, each representing an interrelated area of the curriculum: General Studies, Specialty Studies, and Professional Studies. One circle, that of professional studies, consists of six components that make up the conceptual framework for the unit. These components are:

• Communication
• Thinking Skills
• Methodology/Technology
• Assessment
• Human Relations and Diversity
• Professionalism

These six areas constitute the conceptual framework for the professional preparation programs at Chadron State College. All six components are interwoven throughout the professional preparation programs so that the students become Visionary Leaders.

Acceptance into the Teacher Education Program

Chadron State College recognizes its obligation to prospective candidates for teaching, to the public schools, and to the state, by giving careful consideration to each applicant for admission into the Teacher Education Program. Qualities believed essential to good teaching are considered through professional judgment in determining the applicant’s fitness for entering the program. These include:

1. Intelligence and scholarship
2. Command of oral and written English
3. Ability to foster cognitive and affective development of children and adolescents
4. Social, emotional and personal maturity
5. Physical capability to handle teaching responsibilities
6. Affirmation under oath that the student has no felony conviction or misdemeanor conviction involving abuse, neglect, or sexual misconduct (Guide to Nebraska Teacher Education Institutions, Nebraska Department of Education, Code Section 004.01, subsection 004.11D)
7. Affirmation under oath that the student does not have an order or determination currently in effect by a court or any other government body which finds the student to be any of the following: mentally incompetent to stand trial, acquitted of criminal charges because of insanity, an incapacitated person in need of a guardian, or unable to manage his/her property due to mental illness, mental deficiency, chronic use of drugs or chronic intoxication; or is currently an inpatient or resident in a mental health facility due to a determination by a qualified mental health professional (Guide to Nebraska Department of Education, Code Section 004.01, subsection 004.01L).

Students interested in becoming candidates for teacher education must enroll in the class Introduction to Teaching the semester they wish to apply for admittance (normally in the freshman year, and before the end of the junior year). This course enables students to study the field of teaching and to evaluate themselves as potential teachers.

1. Applications are initiated under the direction and advice of the Director of Field Experiences, and submitted to the Director of Field Experiences for further processing.
2. Completed applications are referred to the Screening Committee for formal action after the student has completed at least one semester of college. Enrollment in PSYC 231 will be restricted to those students who have earned a “C” or better in EDUC 131.
3. Students who are denied admittance to the teacher education curriculum will be helped by the college guidance staff to find a more appropriate career.

**Admission Requirements**

To be fully accepted into the Teacher Education Program, candidates must meet the following requirements:

1. Every student must have been admitted to the Teacher Education Program before they may enroll in Observation and Participation (EDUC 300, EDUC 320), or before they may participate in any field experience pertaining to these courses.

2. Intelligence and scholarship; as evidenced by the following:
   a) attainment of a satisfactory score on a basic skills test administered by the college (PPST or computerized PPST: Reading 170, Math 171, Writing 172; Reading 316, Math 316, Writing 318);
   b) completion of 30 semester hours of college work;
   c) an overall G.P.A. of at least 2.50 is required. The G.P.A. will be calculated by using all previous college/university course work as well as course work from CSC;
   d) completion of the college’s three courses (6 hours of General Studies Composition courses, and C A 125) in written and oral communications, with no grade lower than a “C”; and
   e) completion of EDUC 131, Introduction to Teaching, with a grade of “C” or above.

3. Character and personality, as evidenced by the following:
   a) satisfactory rating by college personnel;
   b) three references from high school and home community;
   c) affirmation under oath that the student has no felony nor misdemeanor convictions involving abuse, neglect, or injury to any person, nor any other convictions involving moral turpitude (Guide to Nebraska Teacher Education Institutions, Nebraska Department of Education, Code Section 004.01, subsection 004.11D); and
   d) affirmation under oath that the student does not have an order or determination currently in effect by a court or any other government body which finds the student to be any of the following: mentally incompetent to stand trial, acquitted of criminal charges because of insanity, an incapacitated person in need of a guardian, or unable to manage his/her property due to mental illness, mental deficiency, chronic use of drugs or chronic intoxication; or is currently an inpatient or resident in a mental health facility due to a determination by a qualified mental health professional (Guide to Nebraska Teacher Education Institutions, Nebraska Department of Education, Code Section 004.01, subsection 004.01L).

4. Health and physical fitness, as evidenced by the following:
   a) emotional stability;
   b) absence of defects that would impair successful teaching; and
   c) absence of predisposition toward poor health as determined by a physical and medical examination at the request of the college Screening Committee.

Students who fail to meet all the above requirements will be denied admission until such time as the criteria are met.
Application for Professional Year

The student, with the cooperation of his/her advisor, must make application for the Professional Year by March 1 for the Fall semester and November 1 for the Spring semester of the junior year. The student and the advisor must be sure that all prerequisites for entrance into the Professional Year are properly met before making application. These prerequisites include admission to candidacy with dates of acceptance included, appropriate grade averages stated, and satisfactory references indicated. Failure to meet these requirements will result in the application being returned to the student’s advisor until such time as they are met. The application will be presented to the chairperson of the department who endorses the application and then forwards the application to the Director of Field Experiences. Each application submitted to the Director of Field Experiences must be approved by the department or departments in which the applicant is pursuing an area or areas of specialization. Academic department approval or disapproval must be indicated on each application. If the department does not approve the application, the student is not eligible for admission to the Professional Year. The Director of Field Experiences will present all applications to the Screening Committee for final consideration.

The applicant must meet the following requirements:

1. a planned program which will enable the student to earn at least 90 semester hours by the time he/she enrolls in the Professional Year. At least 12 semester hours must have been earned from at Chadron State College. Students transferring three or more years of work to Chadron State College may find it necessary to spend more than the two semesters required for residence in order to complete endorsements;
2. achievement of a 2.50 G.P.A. in all college work (G.P.A. will be calculated using grades from all previous college/university course work, as well as course work from CSC) in areas of specialization and in professional education for endorsement and certification purposes.
   - A secondary student pursuing multiple endorsements must have completed 75% of the total course work required for each endorsement and completed the special methods course(s) for each endorsement area either before or during his/her first semester of the Professional Year.
   - A student seeking an elementary endorsement must have completed 100% of the required professional education and elementary education endorsement course work. Additionally, an elementary student must have completed 75% of the coursework required for the minor or an additional endorsement area, and completed all required coursework with a G.P.A. of 2.50. Those preparing to enter teaching must have no grade less than a “C” in the prerequisite professional education courses.
   - Also, a student pursuing two endorsements must take one of his/her special methods classes prior to student teaching, but not before his/her junior year. Subject area methods offered the Fall semester of each year are mathematics, music, physical education, social science, English, art, science, family and consumer sciences, and industrial technology. Subject area methods offered the Spring semester of each year are library media, physical education, and business. The student must attain at least a 2.50 G.P.A. in his/her endorsement methods course(s);
3. completion of a Visionary Leader portfolio verified by the student’s advisor or methods instructors’ assessment which is sent to the Director of Field Experience;
4. demonstration of social, emotional, and personal maturity as well as the physical capabilities essential to handle the vast responsibilities required in the teaching profession. If at any time a student’s emotional, mental, or physical capabilities are determined to be impaired seriously so that as a result of professional judgment the student is unable to demonstrate the qualities required for the teaching profession, the college reserves the right to remove him/her from the program;
5. an affirmation under oath that the student has no felony conviction or misdemeanor conviction involving abuse, neglect, or sexual misconduct (affirmation required to be eligible to student teach); and
6. an affirmation under oath that the student does not have an order or determination currently in effect by a court or any other government body which finds the student to be any of the following: mentally incompetent to stand trial, acquitted of criminal charges because of insanity, an incapacitated person in need of a guardian, or unable to manage his/her property due to mental illness, mental deficiency, chronic use of drugs or chronic intoxication; or is currently an inpatient or resident in a mental health facility due to a determination by a qualified mental health professional (affirmation required to be eligible to student teach).

If a student in the program for teacher education is suspended from the college, he/she automatically is removed from the program. If the student should later be accepted for re-admission to the college, it will be necessary for him/her to reapply for admission to teacher education should he/she desire to re-enter the program.
A student who is denied admission to teacher education or who is administratively withdrawn from student teaching may appeal the denial or administrative withdrawal by contacting the Director of Field Experiences for due process procedures.

**Admission To Student Teaching**

Students must make application for the Professional Year by March 1 for the Fall semester and November 1 for the Spring semester of their junior year. To be eligible to enter the student teaching semester the candidate must meet the following requirements:

1. maintain all G.P.A. requirements listed for admission to the Professional Year;
2. make a sworn statement that the student has not been convicted of a felony or certain misdemeanors;
3. make a sworn statement that the student is mentally competent; and
4. have a Professional Semester faculty approval on his/her portfolio.

**Student Teaching**

Chadron State College requires student teaching full-days for one semester or a minimum of ten (10) weeks full-days for each endorsement taught during a given semester. Student teaching is a full-time position. Therefore, students will not be allowed to take additional course work during their student teaching semester. In addition, it is strongly suggested that student teachers should not engage in additional employment during their placement.

**Eligibility for Initial Certification or Added Endorsement**

To qualify for certification, the student must have (1) completed student teaching with a G.P.A. of 2.50 or above in each area of endorsement, (2) met all course and credit requirements for endorsement in the specialization fields, (3) received departmental approval and recommendation, (4) met all graduation requirements for the appropriate degree, and (5) filed an application with the Certification Officer, including a notarized statement that he/she has not been convicted of a felony or misdemeanor involving abuse, neglect, or sexual misconduct.

A student seeking an additional endorsement after completing his/her degree must complete the appropriate course work and officially notify the Registrar’s Office upon completion of the endorsement. Then proceed as outlined in (5) above. Upon completion of the appropriate course work, the student must notify the Department Chair prior to the Registrar’s Office recording the endorsement on the student’s transcript.

**Program Changes**

Chadron State College is a member of the Nebraska Council on Teacher Education, a teacher education governance organization; therefore, all students majoring in elementary, secondary, special education and/or early childhood unified education are subject to any program rule changes by that organization which may occur while a student is enrolled. If a student has not completed the program within three years following the change, he/she will be required to adjust his/her program to reflect the change.

**CERTIFICATE REQUIREMENTS**

**BACHELOR OF SCIENCE IN EDUCATION**

**Secondary (7-12) Professional Educational Program**

The degree of Bachelor of Science in Education (7-12): A student must complete the following program in addition to the General Studies requirements, and either one field endorsement or one subject endorsement:

**Professional Education**

The following courses are prerequisites to the Professional Year (2.50 G.P.A. required and no grade below a “C”):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 131</td>
<td>Intro to Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 224</td>
<td>Multimedia Support of Instruction/Learning</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 300</td>
<td>Secondary Obs. Participation</td>
<td>1-3</td>
</tr>
<tr>
<td>PSYC 231</td>
<td>Educ Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPED 230</td>
<td>Intro Except Learner</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>At least one subject or field endorsement</td>
<td>30-66</td>
</tr>
</tbody>
</table>

Total 42-80

Admission to Candidacy must be completed before the end of the junior year.
**Professional Year**

The following courses can be taken only as part of the Professional Year (2.50 G.P.A. required): refer to Application for Professional Semester.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 411</td>
<td>Reading in the Content Areas</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 412</td>
<td>General Methods</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 414</td>
<td>Classroom Mgmt</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 415</td>
<td>Human Relations/Multicultural</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 418</td>
<td>Secondary Assessment</td>
<td>1</td>
</tr>
<tr>
<td>*EDUC 431(A-S) Special Methods</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Student Teaching**</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

*Students pursuing two Subject Endorsements must take EDUC 431 Special Methods in both subjects. One special methods course should be taken prior to the Professional Year. The second methods course can be taken the first semester of the Professional Year, if offered. Also, the student must have a G.P.A. of 2.50 or better in the Special Methods course(s).*

**Student teaching can only be taken after completion of the preceding courses.**

Course requirements for secondary endorsements in the following subjects or fields are listed in each departmental section of this catalog (2.50 G.P.A. required)

<table>
<thead>
<tr>
<th>Art</th>
<th>Economics</th>
<th>Library Media Specialist*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>English</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Business</td>
<td>Family and Consumer Sciences</td>
<td>Music</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Foreign Language - Spanish</td>
<td>Natural Science</td>
</tr>
<tr>
<td>Coaching*</td>
<td>Health and Physical Ed.</td>
<td>Physical Science</td>
</tr>
<tr>
<td>Cooperative Education*</td>
<td>History</td>
<td>Physics</td>
</tr>
<tr>
<td>Diversified Occupations</td>
<td>Industrial Technology</td>
<td>Social Science</td>
</tr>
<tr>
<td>Driver Education*</td>
<td>Information Technology*</td>
<td>Special Education</td>
</tr>
<tr>
<td>Earth Science</td>
<td>Language Arts</td>
<td>Theatre</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vocational Special Needs*</td>
</tr>
</tbody>
</table>

*Supplemental endorsements, and thus do not count as a subject endorsement.

EDUC 480K, Student Teaching K-12, or EDUC 490S, Secondary Student Teaching, courses can be taken only upon completion of the above courses (minimum G.P.A. of 2.50 required).

**The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN MIDDLE GRADES (4-9): A Student must complete the following program in addition to the General Studies and Middle Grades Content Area of Specialization requirements.**

**Professional Education:** The following courses are prerequisites to the Professional Year (2.50 G.P.A. required and no grade below a “C”):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 131</td>
<td>Intro to Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 224</td>
<td>Multimedia Support Instr/Learning</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 320</td>
<td>Elementary/MS Obs. &amp; Participation</td>
<td>2</td>
</tr>
<tr>
<td>*EDUC 431(A-L) Special Methods</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>EDUC 433</td>
<td>The Middle School</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 231</td>
<td>Ed Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 336</td>
<td>Adolescent Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPED 230</td>
<td>Intro Exceptional Learner</td>
<td>3</td>
</tr>
<tr>
<td>One (1) Elementary Methods course, from below</td>
<td>2-3</td>
<td></td>
</tr>
<tr>
<td>Content Area of Specialization from below</td>
<td>36</td>
<td></td>
</tr>
</tbody>
</table>

Total 63-64

Admission to Candidacy must be completed before the end of the junior year.

*Two special methods courses are required: one for each special area. One special area methods course may be taken during the first semester of the Professional Year, if offered.*

**Elementary Methods Courses:** Choose one related to a special area.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 334</td>
<td>Art for Elem. Teacher</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 321</td>
<td>Teach Elem/MS Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 322</td>
<td>Teach Elem/MS Language Arts</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 323</td>
<td>Teach Elem/MS Social Studies</td>
<td>2</td>
</tr>
<tr>
<td>HPER 339</td>
<td>Theory of Physical Educ K-8</td>
<td>3</td>
</tr>
<tr>
<td>MUS 333</td>
<td>Music for the Classroom Teacher</td>
<td>3</td>
</tr>
</tbody>
</table>
**Content Area of Specialization Requirements:** The applicant must complete two Content Areas of Specializations. Requirements for the offered Content Areas of Specialization are outlined within the appropriate departments.

- Family and Consumer Sciences
- Health and Physical Education
- Industrial Technology
- Language Arts
- Mathematics
- Natural Sciences
- Social Science

**Professional Year:** The following courses are offered only as part of the Professional Year (2.50 G.P.A. required): Refer to Application for Professional Semester.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 413</td>
<td>Elem/MS Curric. &amp; Counseling</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 414</td>
<td>Classroom Mgmt</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 415</td>
<td>Human Relations/Multicultural</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 416</td>
<td>Elem/MS Assessment</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 417</td>
<td>Teach Reading Diagnosis</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 422</td>
<td>Teach Elem/MS Science &amp; Health</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 423</td>
<td>Teach Primary Reading</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 424</td>
<td>Teach Intern. Reading</td>
<td>2</td>
</tr>
<tr>
<td>Student Teaching *</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

*EDUC 480I, Student Teaching Intermediate, and EDUC 480M, Student Teaching Middle School, can be taken only after completion of the above courses (minimum G.P.A. of 2.50 required).

**Elementary School Professional Education Program**

This program covers special methods in science, health, reading, tests and measurements, curriculum, guidance, multicultural and human relations, classroom management, and professional topics and issues. The student registers for EDUC 413, 414, 415, 416, 417, 422, 423 and 424 in their senior year. Upon successful completion of the above (2.50 G.P.A. required), the student is then eligible to student teach the following semester.

Elementary majors will student teach at a primary level (K-3) and an intermediate level (4-6). Students who have K-12 endorsements in addition to their elementary major will student teach in their elementary area for part of the semester and in the 7-12 area the other portion of the semester.

**The Degree of Bachelor of Science in Elementary Education with a FIELD ENDORSEMENT IN ELEMENTARY EDUCATION (K-8):** A student must complete the following program requirements in addition to the General Studies and one minor or endorsement area:

**Professional Education:** The following courses are prerequisites to the Professional Year (2.50 G.P.A. required no grade below a “C”):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 334</td>
<td>Art for Elem Teacher</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 131</td>
<td>Intro to Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 224</td>
<td>Multimedia Support of Instruction/Learning</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 320</td>
<td>Elem/MS Obs &amp; Participation</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 321</td>
<td>Teach Elem/MS Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 322</td>
<td>Teach Elem/MS Language Arts</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 323</td>
<td>Teach Elem/MS Social Studies</td>
<td>2</td>
</tr>
<tr>
<td>ENG 235</td>
<td>Children’s Lit.</td>
<td>3</td>
</tr>
<tr>
<td>HPER 339</td>
<td>Theory of Physical Educ K-8</td>
<td>3</td>
</tr>
<tr>
<td>MATH 235</td>
<td>Math for the Elem. Teacher I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 335</td>
<td>Math for the Elem Teacher II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 333</td>
<td>Music for Classroom Teacher</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 231</td>
<td>Ed Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 334</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPED 230</td>
<td>Intro Except Learner</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 40

Admission to Candidacy must be completed before the end of the junior year.

*Can be taken before or during the Professional Year

**Elementary Minor/Second Endorsement:** Course requirements for the following minors or special endorsements are listed in each departmental section of this catalog. One minor or a second endorsement is required (2.50 G.P.A. required). Three-fourths (75%) of the minor or second endorsement course work must be completed prior to entry into the first semester of the professional year.

<table>
<thead>
<tr>
<th>Minor/Endorsement</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>Mild/Moderate Disabilities</td>
</tr>
<tr>
<td>Early Childhood</td>
<td>Physical Education</td>
</tr>
<tr>
<td>English</td>
<td>Science</td>
</tr>
<tr>
<td>Information Technology</td>
<td>Social Science</td>
</tr>
<tr>
<td>Library Information Management</td>
<td>Special Education</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Vocal Music</td>
</tr>
</tbody>
</table>
Professional Year: The following courses can be taken only as part of the Professional Year (2.50 G.P.A. required): Refer to Application for Professional Semester.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 413</td>
<td>Elem/MS Curric. &amp; Counseling</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 414</td>
<td>Classroom Mgmt</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 415</td>
<td>Human Relations/Multicultural</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 416</td>
<td>Elem/MS Assessment</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 417</td>
<td>Teach Reading Diagnosis</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 422</td>
<td>Teach Elem/MS Science &amp; Health</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 423</td>
<td>Teach Primary Reading</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 424</td>
<td>Teach Intern. Reading</td>
<td>2</td>
</tr>
<tr>
<td>Student Teaching*</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

Total 27

*The following courses can be taken only upon completion of the above courses (minimum G.P.A. of 2.50 required):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 480I</td>
<td>Student Teaching Intermediate</td>
<td></td>
</tr>
<tr>
<td>EDUC 480P</td>
<td>Student Teaching Primary</td>
<td></td>
</tr>
<tr>
<td>EDUC 480K</td>
<td>Student Teaching K-12</td>
<td></td>
</tr>
<tr>
<td>EDUC 480L</td>
<td>Student Teaching K-6</td>
<td></td>
</tr>
<tr>
<td>EDUC 480R</td>
<td>Student Teaching M/M Handicapped</td>
<td></td>
</tr>
<tr>
<td>EDUC 480V</td>
<td>Student Teaching M/M K-12</td>
<td></td>
</tr>
</tbody>
</table>

The Degree of Bachelor of Science in Elementary Education with a SUBJECT ENDORSEMENT IN EARLY CHILDHOOD EDUCATION (Birth through Grade 3): A student must complete the following program in conjunction with a K-8 endorsement and in addition to the General Studies requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 231</td>
<td>Play, Art &amp; Music for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 233</td>
<td>Lit. &amp; Lang. Arts for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>FCS 139</td>
<td>Child Growth &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>FCS 237</td>
<td>Guid. Tech. In Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>FCS 238</td>
<td>Prenatal and Infant Develop.</td>
<td>3</td>
</tr>
<tr>
<td>FCS 239</td>
<td>Parenting in a Contemp. Society</td>
<td>3</td>
</tr>
<tr>
<td>FCS 321</td>
<td>Curr Dev in Family &amp; Con Sci Educ</td>
<td>2</td>
</tr>
<tr>
<td>FCS 332</td>
<td>Family Studies</td>
<td></td>
</tr>
<tr>
<td>FCS 335</td>
<td>Families in Society</td>
<td></td>
</tr>
<tr>
<td>FCS 423</td>
<td>Program Mgmt</td>
<td></td>
</tr>
<tr>
<td>FCS 448</td>
<td>Early Childhood Practicum</td>
<td></td>
</tr>
</tbody>
</table>

Total 33

MINOR in Early Childhood Education (K-8)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 231</td>
<td>Play, Art &amp; Music for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 233</td>
<td>Lit. &amp; Lang. Arts for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>FCS 139</td>
<td>Child Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>FCS 237</td>
<td>Guid. Tech. In Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>FCS 239</td>
<td>Partners in Early Childhood Educ</td>
<td>3</td>
</tr>
<tr>
<td>FCS 321</td>
<td>Curr Dev in Family &amp; Con Sci Educ</td>
<td>2</td>
</tr>
<tr>
<td>FCS 423</td>
<td>Program Management</td>
<td>3</td>
</tr>
<tr>
<td>FCS 448</td>
<td>Early Childhood Practicum</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 27

PROGRAM FOR ADDING AN ENDORSEMENT

To add an endorsement to an existing teaching/administrative certificate, the student must complete the appropriate departmental and endorsement area coursework. To determine coursework requirements, the student should complete an Evaluation for an Added Endorsement Form in cooperation with the teacher educator (Advisor) in the department offering the endorsement. The student must then notify the Graduate Office when the coursework is complete and request the subsequent Endorsement be posted (or added) to the student’s official transcript. The student must then submit a Nebraska Application for Certificate to the CSC Certification Office, in order for the State Department of Education to add this new endorsement to the student’s teaching certificate. The CSC Certification Office is unable to process requests to add endorsements/programs to a teaching certificate until this procedure is completed.

COURSE DESCRIPTIONS

Education

EDUC 131  Introduction to Teaching  Credit 3 hours

Surveys the work of a teacher, the public school system, and the qualities necessary for success in the profession. Fundamental to all work in the Department of Education. Includes a required field experience.

EDUC 224  Multimedia Support of Instruction/Learning  Credit 2 hours

Operation of the various teaching machines commonly found in the schools, ranging from projection devices to copiers and computers. Creation of audio-visual materials such as bulletin boards, mobiles, slide presentations, etc. Computer use is addressed via a review of the basics of computer operation; use of common educational databases; and use of computers to facilitate instruction. Prerequisite: EDUC 131, or by permission of instructor.
EDUC 231  Play, Art and Music for Early Childhood  Credit 3 hours
Develop coordinated programs in play, art, and music for preschool children as media for preschool growth, development and learning. Art and music are used as forms of play to teach developmental skills in the areas of math, social science, and language arts, as well as in developing skills in coordination, movement, rhythm, creative expressions, etc. Prerequisite: FCS 139.

EDUC 232  Science, Math, and Social Science for Early Childhood  Credit 3 hours
Development of programs in science, math, and social science for preschool children utilizing a variety of instructional materials. Emphasis is placed upon the development of innate interests, vocabulary, concepts, and readiness skills through concrete experiences as well as play activities. Prerequisite: FCS 139.

EDUC 233  Literature and Language Arts Program for Early Childhood  Credit 3 hours
Introduction to literature for preschool children using appropriate literature and language arts and activities to promote the development of language arts skills, with an emphasis on the development of reading readiness in preschool children. Prerequisite: FCS 139.

EDUC 270  Special Topics  Credit 1-3 hours
Enables individuals to become aware of trends, issues, and requirements in the educational fields that are not covered in the upper division course work.

EDUC 300  Secondary Observation and Participation  Credit 1-3 hours
Observation and participation in the secondary major areas of specialization and endorsement, with emphasis on active involvement in high school settings. One hour required of all secondary majors, but students may register for up to three hours of credit. Prerequisites: PPST, EDUC 131, SPED 230, EDUC 224, and PSYC 231.

EDUC 320  Elementary/Middle School Observation and Participation  Credit 2 hours
Classroom observation and participation prior to student teaching at various grade levels or in the subject areas students might teach in the middle grades. Students will observe and participate in two or three different settings from primary to middle grades. Those students interested in rural school education are encouraged to select a rural school for one observation period. Prerequisite: PPST, EDUC 131, 224, 321, 322, 323, PSYC 231, and SPED 230.

EDUC 321  Teaching Elementary/Middle School Mathematics  Credit 2 hours
Survey of mathematics teaching methods for the elementary and middle school students. Children’s textbooks, resources, appropriate technology, techniques for exceptional learner, concrete materials and instructional procedures are emphasized. Prerequisite: EDUC 131, MATH 235, and PSYC 231.

EDUC 322  Teaching Elementary/Middle School Language Arts  Credit 2 hours
Survey of the teaching methods in the language arts for the elementary and middle school students. All major aspects of communication will be considered. Techniques for exceptional learner will be emphasized. Prerequisites: EDUC 131, 224, and PSYC 231.

EDUC 323  Teaching Elementary/Middle School Social Studies  Credit 2 hours
Survey of teaching methods in the content areas of social studies for the elementary and middle school students. Academic areas of Social Science as well as current events, map and globe skills, grouping and creative activities will be addressed, including techniques for exceptional learner. Prerequisites: EDUC 131, 224, and PSYC 231.

EDUC 390  Internship in Education  Credit 1-3 hours
Provides practical experience in an agency related to education. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours. The internship will not replace any observation or field experience requirements, or any required courses, and should not be done while the student is on Block or student teaching.
EDUC 400  Independent Study or Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Dean’s permission required.

EDUC 411  Reading in the Content Areas  Credit 1 hour
Assists teachers to approach subject matter in such a way as to utilize and further develop instructional strategies. Study skills, reading skills common to all content areas and reading skills and vocabulary development in specific subject areas are covered. Taken as part of the professional year.

EDUC 412S  Secondary General Methods  Credit 1 hour
Teaching strategies, development of curriculum units and lesson plans, questioning skills and motivation techniques. Taken as part of the professional year.

EDUC 413  Elementary/Middle School Curriculum & Counseling  Credit 1 hour
Principles and theories governing curriculum design, development, implementation, and evaluation at the K-6 and 4-9 levels with focus on the role and responsibility of the elementary/middle school teacher in the counseling and guidance process. Taken as part of the professional year.

EDUC 414  Classroom Management  Credit 1 hour
Classroom management as it relates to efficiently operated classrooms. Theory and practice precede practical implications and teaching strategies in areas such as the following: managing student behavior, time management, classroom routines, stress, and working with parents and paraprofessionals. Taken as part of the professional year.

EDUC 415  Human Relations/Multicultural  Credit 1 hour
Influence of human relationships upon learning, growth and development, including an examination of significant problems in education as they relate to multi-ethnic students. Emphasis will be placed on the development of interpersonal skills, classroom climate, and in meeting the emotional needs of students. Taken as part of the professional year.

EDUC 416  Elementary/Middle School Assessment  Credit 1 hour
Mechanics of deriving meaningful grades and reporting these grades to students, parents and administrators. The criteria for developing teacher-made tests will be explored as well as the basic statistics to interpret and compare scores. New methods of evaluation will be addressed. Taken as part of the Professional Year.

EDUC 417  Teaching Reading Diagnosis  Credit 1 hour
Diagnostic awareness and corrective skill. Formal and informal tools used in assessing reading progress, identifying reading problems, planning reading correction and using remedial materials will be examined and used in experimental settings. Teacher observation skills and informal diagnostic and corrective procedures will be stressed. Follows EDUC 423 and 424. Taken as part of the Professional Year.

EDUC 418  Secondary Assessment  Credit 1 hour
Construction of valid and reliable teacher made tests and the interpretation of scores from these and standardized instruments. Performance-based assessment tools will be emphasized. Taken as part of the professional year.

EDUC 422  Teaching Elementary/Middle School Science & Health  Credit 2 hours
Teaching experiences with hands-on methods and materials used to teach science and health to children in grades K-9. Students will work with textbook materials, science equipment appropriate to this age group, audio-visual materials relating to science and health as well as the use of resource persons and field trips. Prerequisites: HPER 233, Biological Science Course, Physical Science Course. Taken in conjunction with the professional year.
EDUC 423  Teaching Primary Reading  Credit 2 hours
Current methods, materials and research findings related to the teaching of reading at the primary level. Different approaches to word analysis and to reading comprehension, laboratory projects and demonstrations in instructional techniques, and reading principles and strategies of primary reading programs, and instructional and organizational procedures. Taken as part of the Professional Year.

EDUC 424  Teaching Intermediate Reading  Credit 2 hours
Current methods, materials, and research findings related to the teaching of reading at the intermediate level. Teaching advanced reading skills in reading programs and in content areas will be examined. Strategies to develop higher questioning skills and study skills, laboratory projects and demonstrations of instructional techniques, and reading principles, program development, and instructional and organizational procedures. Taken as part of the Professional Year.

EDUC 431(A-S) Special Methods  Credit 3 hours
A methods course in the major field(s) of specialization required of secondary education majors pursuing area endorsement(s). Also required of middle school and elementary K-6 subject endorsed students in art, physical education, educational media, and music teacher education. The course must be taken prior to student teaching, students must consult advisors to schedule the course at the appropriate time. Includes techniques for working with exceptional learner. Prerequisites: PPST, EDUC 131, EDUC 224, EDUC 300, PSYC 231, and SPED 230.

EDUC 433  The Middle School  Credit 3 hours
Philosophy, implementation, and improvement of the middle school from a theoretical and practical basis. Emphasis is placed upon the development, behavior, and special problems of middle school students; overall school program; methods of instruction; and the evaluation process. Observation is required in local middle school environments.

EDUC 440  Topics in Educational Technology  Credit 1-3 hours
Designed to allow students to study some aspect of educational technology not offered as a regular class. May be repeated with a change of emphasis for a maximum of 6 hours credit.

EDUC 480A  Field Experience  Credit 1-8 hours
Assists the non-certified teacher and the teacher seeking an additional endorsement or renewal of an expired certificate through a planned and supervised field experience. The total number of field experience hours will be determined by a transcript review. Prerequisites for the course include successful completion of Teacher Education requirements as outlined in the General Bulletin. Requires affirmation under oath that the student has no felony convictions or misdemeanor convictions involving abuse, neglect, or sexual misconduct.

EDUC 480I  Student Teaching Intermediate  Credit 8 hours
Encompasses grades 4 through 6 and taken in conjunction with eight additional student teaching hours.

EDUC 480K  Student Teaching K-12  Credit 8-16 hours
Encompasses K-12 endorsements in art, music, physical education, and 7-12 areas such as speech. May be taken in conjunction with eight additional student teaching hours.

EDUC 480L  Student Teaching K-8  Credit 8 hours
Encompasses field experience for K-8 endorsements. Taken in conjunction with eight additional student teaching hours.

EDUC 480M  Student Teaching Middle School  Credit 8 hours
Encompasses grades 7 through 9 and taken in conjunction with eight additional student teaching hours.

EDUC 480P  Student Teaching Primary  Credit 8 hours
Encompasses grades K through 3 and taken in conjunction with eight additional student teaching hours.
EDUC 480R  Student Teaching Early Childhood Education Unified  Credit 8 hours
Encompasses student teaching in a field experience with young children birth to age 8 and is taken in conjunction with eight additional student teaching hours at the elementary level.

EDUC 480V  Student Teaching Mild/Moderate Disabilities K-12  Credit 8-16 hours
Encompasses grades K-12 and may be taken in conjunction with eight additional student teaching hours.

EDUC 490S  Secondary Student Teaching  Credit 8-16 hours
Sixteen weeks full-time in an off-campus center. A sixteen (16) hour load is the maximum number for which a student may enroll. Participation in campus activities is restricted and limited to weekends. Students participate in their assigned community school program on a full-time basis both in the classroom and in extra-classroom activities. Prerequisites: EDUC 411, 412, 414, 415, 418, 431.

READING

READ 400  Special Topics in Reading  Credit 1-3 hours
Recent trends and issues in the field of reading.

READ 430  Reading in the Middle and Secondary Schools  Credit 3 hours
The nature of reading, pertinent research in the field, reading as applicable to the middle and secondary reading curriculum, management of the middle and secondary reading programs, application of reading skills to the various subject areas, the selection of effective materials of teaching methods and techniques, and the use of various types of tests. Prerequisites: student teaching or teaching experience.

SPECIAL EDUCATION

Chadron State College offers a cross-categorical special education program, providing endorsements of current information, skills, and methods regarding program planning, implementation, and assessment for learners with mild/moderate disabilities. Endorsements in mild/moderate disabilities have been selected for their broad scope to effectively meet the special educational needs of teachers who will serve students in the service area of Chadron State College.

The undergraduate special education curriculum provides the following options: Mild/Moderate Disabilities endorsement (K-12), (7-12), Early Childhood Unified Education endorsement (birth-grade 3), and a minor in special education.

The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN MILD/MODERATE DISABILITIES (7-12) or (K-12): Students seeking a teaching endorsement in the area of Mild/Moderate Disabilities (7-12) or (K-12) are required to complete the following courses in addition to the professional courses for Secondary Education (2.50 G.P.A. Required) and the General Studies requirements.

The student teaching experience in mild/moderate disabilities (7-12) requires 16 student teaching credit hours in a Special Education setting at the secondary or middle school levels. The student teaching experience in mild/moderate disabilities (K-12) requires 8 student teaching credit hours in a Special Education setting at the secondary level and 8 credit hours at the elementary level (EDUC 480V, Student Teaching M/M K-12).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>CTE 431</td>
<td>Intro. to Special Needs Prog in CTE</td>
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<tr>
<td>HPER 422</td>
<td>Intro to Adapted PE</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 336</td>
<td>Adolescent Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPED 230</td>
<td>Intro to the Excep. Learner</td>
<td>3</td>
</tr>
<tr>
<td>SPED 231</td>
<td>Survey of Effects of M/M Disab.</td>
<td>3</td>
</tr>
<tr>
<td>SPED 232</td>
<td>Interper. Comm Skills for SPED</td>
<td>3</td>
</tr>
<tr>
<td>SPED 316e</td>
<td>Microteach Elem/Middle School</td>
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<tr>
<td>SPED 316s</td>
<td>Microteach Secondary Special Ed</td>
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</tr>
<tr>
<td>SPED 331</td>
<td>Behavior Interventions</td>
<td>3</td>
</tr>
<tr>
<td>SPED 332</td>
<td>Lang. and Learning Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SPED 335</td>
<td>Elem./Sec. Meth. Mat. M/M Dis.</td>
<td>4</td>
</tr>
<tr>
<td>SPED 337</td>
<td>Program Dev., Imp. &amp; Eval.</td>
<td>3</td>
</tr>
<tr>
<td>SPED 416</td>
<td>Clinical Exp. in Appr. Exc. Child</td>
<td>1</td>
</tr>
<tr>
<td>SPED 435</td>
<td>Assess. Indiv. with M/M Disab.</td>
<td>3</td>
</tr>
<tr>
<td>SPED 438</td>
<td>Consultation/Collaboration</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 40
The Degree of Bachelor of Science in Education with an EARLY CHILDHOOD EDUCATION UNIFIED ENDORSEMENT (Birth through Grade 3): This endorsement qualifies individuals to teach early childhood and special education from birth through grade 3. A student must complete the following program requirements in addition to the General Studies requirements:

**Professional Education:** The following courses are prerequisites to the Professional Year (2.50 G.P.A. required no grade below a “C”):

- EDUC 131 Intro to Teaching ........................................ 3
- EDUC 224 Multimedia Support of Instruction/Learning .................. 2
- EDUC 320 Elem/MS Obs & Participation ................................ 2
- PSYC 334 Developmental Psychology .................................. 3
- SPED 230 Intro Except Learner ....................................... 3
- Total 13

**Early Childhood Education Unified Endorsement:** The following courses are prerequisites to the Professional Year (2.50 G.P.A. required and no grade below a “C”):

- EDUC 231 Play, Art & Music for Early Childhood .... 3
- EDUC 232 Sci, Math & Soc Stu for Early Child .... 3
- EDUC 233 Lit & Language Arts for Early Child .... 3
- EDUC 321 Teach Elem/MS Math .................................. 2
- FCS 139 Child Growth and Development .................. 3
- FCS 237 Guidance Tech Human Relations ............... 3
- FCS 331 Behavior Interventions .................................. 3
- FCS 338 Prenatal & Infant Development .................. 3
- FCS 321a Curriculum Development ....................... 2
- FCS 423 Program Management .................................. 3
- SPED 230 Intro to Except Learner .......................... 3
- SPED 231 Survey & Effects of M/M Disability .... 3
- SPED 232 Interpersonal Communication Skills OR
- FCS 239 Partners in Early Child Educ ...................... 3
- SPED 316 Micro Teaching in Preschool ........................ 1
- SPED 332 Language & Learning Disorders ............. 3
- SPED 337 Program Dev, Implem, & Mgmt .............. 3
- SPED 416 Clinical Exp – Except Child ..................... 1
- SPED 438 Consultation/Collaboration .................... 3
- Total 49

**Professional Year:** The following courses can be taken only as part of the Professional Year (2.50 G.P.A. required):

- Refer to Application for Professional Semester.
- EDUC 413 Elem/MS Curric. & Counseling .......... 1
- EDUC 414 Classroom Mgmt .................................. 1
- EDUC 415 Human Relations/Multicultural ........ 1
- EDUC 416 Elem/MS Assessment .......................... 1
- EDUC 417 Teach Reading Diagnosis .................... 1
- EDUC 422 Teach Elem/MS Science & Health .... 2
- EDUC 423 Teach Primary Reading ..................... 2
- Total 11

EDUC 480P, Student Teaching Primary and EDUC 480R, Student Teaching Early Childhood Education Unified can be taken only upon completion of the above courses (minimum G.P.A. of 2.50 required).

**MINOR in Mild/Moderate Disabilities (K-8)**

- HPER 422 Intro to Adapted PE .............................. 3
- SPED 231 Survey and Effects of M/M Disab .... 3
- SPED 232 Interpersonal Comm. Skills .............. 3
- SPED 316 Microteach Pre/Elem/Middle School .... 1
- SPED 331 Behavior Interventions ................. 3
- SPED 332 Language & Learning Disorders ....... 3
- SPED 335 Elem/Sec Methods & Materials ........ 4
- SPED 337 Program Dev., Imp. & Mgmt ............ 3
- Total 23

**COURSE DESCRIPTIONS**

**SPED 230** **Introduction to the Exceptional Learner**  
Credit 3 hours

Overview of exceptionalities, their definitions, prevalence, etiology, characteristics, and related instructional needs and accommodations. Emphasis is on current educational methods and placements to understand the impact on teaching practices and curriculum considerations. Prerequisite: EDUC 131.
SPED 231 Survey of Effects of Mild/Moderate Disabilities Credit 3 hours
Academic, social, vocational, adaptive and behavioral characteristics and related needs of persons with mild/moderate levels of exceptionalities (including gifted and talented). Emphasis is on the identification, diagnosis, and instructional needs of learners with exceptionalities.

SPED 232 Interpersonal Communications Skills for Special Educators Credit 3 hours
Study and application of communication skills for conferencing with parents, staff members, and other professionals concerning planning and implementing special education programs for infants, preschool, and school-age learners and adults with mild/moderate disabilities. Prerequisite: SPED 230.

SPED 316e Microteaching in Preschool/Elementary/Middle School Special Education Credit 1 hour
Application of instructional techniques in a resource or inclusive classroom setting is emphasized. Various techniques of instruction are included in the design and implementation of individual and small group programs.

SPED 316s Microteaching in Secondary Special Education Credit 1 hour
Application of instructional techniques in a resource or inclusive classroom setting is emphasized. Various techniques of instruction are included in the design and implementation of individual and small group programs.

SPED 331 Behavior Interventions Credit 3 hours
Management theories for individuals and large groups are compared with and contrasted to behavioral theory. The focus is on behavior strategies and techniques which are known to facilitate behavior change, academic production, time management, classroom routines, social participation, and character development.

SPED 332 Language and Learning Disorders Credit 3 hours
Development of speech and language in young children, including assessment of communication disorders related to certain disabilities for instructional considerations and accommodations. Communication augmentative devices and technology will be introduced.

SPED 335 Elementary/Secondary Methods and Materials for Mild/Moderate Disabilities Credit 4 hours
Instructional, curricular, and adaptive or assistive technological approaches to accommodate the academic, social, cognitive, linguistic, and physical needs of the elementary learners with mild/moderate disabilities are reviewed. Based on learning theories, information obtained from this course will center on the use of methods and materials to facilitate learning of elementary/secondary students with mild/moderate disabilities. Prerequisites: SPED 231. Co-requisite: SPED 316e or 316s.

SPED 337 Program Development, Implementation, and Management Credit 3 hours
Development, implementation, and management of special education programs (IEP’s, IFSP’s and transition plans) through (a) a background of laws leading up to IDEA, (b) a working knowledge of IDEA amendments, (c) hands-on experience in the formulation and development of IEP’s, IFSP’s and transition plans, and (d) techniques and strategies in adapting curriculum for students with special learning needs.

SPED 390 Internship in Special Education Credit 1-3 hours
Provides practical experience in an agency related to education/special education. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours. The internship will not replace any observation or field experience requirements, or any required courses, and should not be done while the student is on Block or student teaching.

SPED 400 Independent Study or Research Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Approval of Academic Dean required.
SPED 416  Clinical Experience in Appraisal of Exceptional Children  Credit 1 hour
Class and field experiences to observe clinicians using assessment instruments and equipment with students in screening and assessment of academic achievement, development, assistive technology, and rehabilitation. Pre- or co-requisite: SPED 435.

SPED 435  Assessing Individuals with Mild/Moderate Disabilities  Credit 3 hours
Assessment procedures and practices used to obtain information about the learning and development of students with mild/moderate needs, including administering, interpreting, and reporting test results and formulating instructional objectives and subsequent learning programs. Understanding how information obtained from quantitative/qualitative measures and teachers’ experiences influence their abilities to interpret strengths and needs, formulate instructional objectives, develop curriculum, and select appropriate teaching strategies.

SPED 437  Seminar in Special Education  Credit 1-3 hours
A forum for special topics in special education and related fields is provided. The topic/topics will be announced in the title of the course as it is offered.

SPED 438  Consultation/Collaboration  Credit 3 hours
Consulting and collaborating skills for special educators working with parents and other professionals involved with children with disabilities. Emphasis is given to formal and informal meetings and conferences in planning, developing, and implementing special education programs, along with adaptations, special equipment, accommodations, or collaborative teaching with other professional and paraeducators.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Learning Outcomes
The objectives of the Health, Physical Education, and Recreation disciplines are as follows:

1. Students will acquire professional preparation in Physical Education.
2. Students will acquire professional preparation in Health Education and related areas.
3. Students will acquire professional preparation in Coaching.
4. Students will acquire an area of specialization at the Master’s Degree level in Physical Education.
5. Students will acquire managerial knowledge and experience in the Field of Recreation.
6. Students in the General Studies program will acquire knowledge in the development of physical and mental health, a sense of well being and knowledge of ways to enhance the quality of life.
7. Students will acquire knowledge and skills through participation in physical activity, competition, and instructional theory in athletics and intramurals.

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN RECREATION: A student must complete the following program in addition to the General Studies requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 331</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>HPER 102</td>
<td>Rifery/Skeet &amp; Trap Shooting</td>
<td>1</td>
</tr>
<tr>
<td>HPER 114</td>
<td>Canoeing/Casting &amp; Angling</td>
<td>2</td>
</tr>
<tr>
<td>HPER 119</td>
<td>Aerobics</td>
<td>1</td>
</tr>
<tr>
<td>HPER 124 &amp; 124L Anatomical Kinesiology &amp; Lab</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>HPER 203</td>
<td>Orienteering &amp; Backpacking</td>
<td>1</td>
</tr>
<tr>
<td>HPER 216</td>
<td>Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>HPER 217</td>
<td>Red Cross Lifeguard Training</td>
<td>1</td>
</tr>
<tr>
<td>HPER 220</td>
<td>Theory of Coaching</td>
<td>2</td>
</tr>
<tr>
<td>HPER 221</td>
<td>Camp Counseling</td>
<td>2</td>
</tr>
<tr>
<td>HPER 226</td>
<td>Safety &amp; First Aid</td>
<td>2</td>
</tr>
<tr>
<td>HPER 232 &amp; 232L Phys Kinesiology &amp; Lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HPER 234</td>
<td>Introduction to Recreation</td>
<td>3</td>
</tr>
<tr>
<td>HPER 314</td>
<td>Water Safety Instruction</td>
<td>1</td>
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<tr>
<td>HPER 333</td>
<td>Leadership in Recreation</td>
<td>3</td>
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<tr>
<td>HPER 335</td>
<td>Org &amp; Admin of HPER</td>
<td>3</td>
</tr>
<tr>
<td>HPER 421</td>
<td>Phil &amp; Psyc Found of Sport</td>
<td>2</td>
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<td>HPER 422</td>
<td>Introduction to Adapted PE</td>
<td>3</td>
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<tr>
<td>HPER 436</td>
<td>Outdoor Education</td>
<td>3</td>
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<tr>
<td>HPER 437</td>
<td>Sport Law</td>
<td>3</td>
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<tr>
<td>HPER 439 &amp; 439L Biomechanics of Sports &amp; Lab</td>
<td>3</td>
<td></td>
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<tr>
<td>HPER 440</td>
<td>Prevention &amp; Care of Ath Injuries</td>
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<tr>
<td>HPER 490</td>
<td>Internship</td>
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<tr>
<td>Electives in Coaching (321, 322, 326, 424, 425, 426)</td>
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Total: 57
**The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN HEALTH AND PHYSICAL EDUCATION (K-12):** A student must complete the following program in addition to the General Studies and Professional Education Requirements.

<table>
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<tr>
<th>Course Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>FCS 337</td>
<td>Nutrition</td>
<td>3</td>
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<tr>
<td>HPER 122</td>
<td>Foundations of HPER</td>
<td>2</td>
</tr>
<tr>
<td>HPER 124 &amp; 124L Anatomical Kinesiology &amp; Lab</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>HPER 214</td>
<td>Advanced Swimming</td>
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</tr>
<tr>
<td>*HPER 217</td>
<td>Red Cross Lifeguard Training</td>
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<tr>
<td>*HPER 314</td>
<td>Red Cross Water Safety</td>
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<tr>
<td>HPER 226</td>
<td>Safety and First Aid</td>
<td>2</td>
</tr>
<tr>
<td>*HPER 232 &amp; 232L Physiological Kinesiology &amp; Lab</td>
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<tr>
<td>HPER 312</td>
<td>Apparatus</td>
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<tr>
<td>HPER 313</td>
<td>Tumbling</td>
<td>1</td>
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<tr>
<td>HPER 325</td>
<td>Teach Indiv &amp; Dual Sports</td>
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<tr>
<td>HPER 326</td>
<td>Motor Skill Learning</td>
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<tr>
<td>HPER 335</td>
<td>Organization &amp; Administration of HPER</td>
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</tr>
<tr>
<td>HPER 339</td>
<td>Theory of Physical Education K-8</td>
<td>3</td>
</tr>
<tr>
<td>HPER 422</td>
<td>Intro to Adapted PE</td>
<td>3</td>
</tr>
<tr>
<td>HPER 427</td>
<td>Elementary Rhythmics</td>
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<td>HPER 428</td>
<td>Curriculum in Health Education</td>
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<tr>
<td>HPER 429</td>
<td>Basic Movement Education for Children</td>
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</tr>
<tr>
<td>HPER 431</td>
<td>Community &amp; Environmental Health</td>
<td>3</td>
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<tr>
<td>HPER 432</td>
<td>Tests &amp; Measurements in PE</td>
<td>3</td>
</tr>
<tr>
<td>HPER 435</td>
<td>Curriculum Planning in PE</td>
<td>3</td>
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<tr>
<td>PSYC 131</td>
<td>General Psychology</td>
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*Requires a Prerequisite

**The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN PHYSICAL EDUCATION (K-8):** A student must complete the following program in addition to the General Studies and Professional Education Requirements.

<table>
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<tr>
<th>Course Code</th>
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<tr>
<td>HPER 122</td>
<td>Foundations of HPER</td>
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<td>Advanced Swimming</td>
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<td>*HPER 217</td>
<td>Red Cross Lifeguard Training</td>
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<tr>
<td>HPER 226</td>
<td>Safety and First Aid</td>
<td>2</td>
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<td>*HPER 232 &amp; 232L Physiological Kinesiology &amp; Lab</td>
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<tr>
<td>HPER 313</td>
<td>Tumbling</td>
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<td>HPER 313</td>
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<tr>
<td>HPER 325</td>
<td>Individual &amp; Dual Sports</td>
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<td>HPER 326</td>
<td>Motor Skill Learning</td>
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<td>HPER 335</td>
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<td>HPER 339</td>
<td>Theory of Physical Education K-8</td>
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<td>Test &amp; Measurements in PE</td>
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<tr>
<td>HPER 435</td>
<td>Curriculum Planning in PE</td>
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*Requires a Prerequisite

**The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN PHYSICAL EDUCATION (7-12):** A student must complete the following program in addition to the General Studies and Professional Education Requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HPER 122</td>
<td>Foundations of HPER</td>
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</tr>
<tr>
<td>HPER 124 &amp; 124L Anatomical Kinesiology &amp; Lab</td>
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<tr>
<td>HPER 214</td>
<td>Advanced Swimming</td>
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<tr>
<td>*HPER 217</td>
<td>Red Cross Lifeguard Training</td>
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</tr>
<tr>
<td>*HPER 314</td>
<td>Red Cross Water Safety</td>
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</tr>
<tr>
<td>HPER 226</td>
<td>Safety and First Aid</td>
<td>2</td>
</tr>
<tr>
<td>*HPER 232 &amp; 232L Physiological Kinesiology &amp; Lab</td>
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<td></td>
</tr>
<tr>
<td>HPER 312</td>
<td>Apparatus</td>
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</tr>
<tr>
<td>HPER 313</td>
<td>Tumbling</td>
<td>1</td>
</tr>
<tr>
<td>HPER 313</td>
<td>Tumbling</td>
<td>1</td>
</tr>
<tr>
<td>HPER 325</td>
<td>Individual &amp; Dual Sports</td>
<td>2</td>
</tr>
<tr>
<td>HPER 326</td>
<td>Motor Skill Learning</td>
<td>2</td>
</tr>
<tr>
<td>HPER 335</td>
<td>Org &amp; Admin of HPER</td>
<td></td>
</tr>
<tr>
<td>HPER 422</td>
<td>Intro to Adapted PE</td>
<td>3</td>
</tr>
<tr>
<td>HPER 427</td>
<td>Elementary Rhythmics</td>
<td></td>
</tr>
<tr>
<td>HPER 432</td>
<td>Tests &amp; Measure. in PE</td>
<td>3</td>
</tr>
<tr>
<td>HPER 435</td>
<td>Curriculum Planning in PE</td>
<td></td>
</tr>
<tr>
<td>HPER 439 &amp; 439L Biomechanics of Sports &amp; Lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total</td>
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<td>33</td>
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</tbody>
</table>

*Requires a Prerequisite
The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN HEALTH EDUCATION (7-12): A student must complete the following program in addition to the General Studies and Professional Education requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 320</td>
<td>Aging and Death</td>
<td>3</td>
</tr>
<tr>
<td>FCS 337</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HPER 122</td>
<td>Foundations of HPER</td>
<td>2</td>
</tr>
<tr>
<td>HPER 124 &amp; 124L</td>
<td>Anatomical Kinesiology &amp; Lab</td>
<td>2</td>
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<tr>
<td>HPER 226</td>
<td>Safety and First Aid</td>
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<tr>
<td>HPER 232 &amp; 232L</td>
<td>Physiological Kinesiology &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>HPER 236</td>
<td>Health Topics</td>
<td>3</td>
</tr>
<tr>
<td>HPER 490b</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>HPER 335</td>
<td>Org &amp; Admin of HPER</td>
<td>3</td>
</tr>
<tr>
<td>HPER 428</td>
<td>Curriculum in Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HPER 431</td>
<td>Community &amp; Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 131</td>
<td>General Psychology</td>
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</tr>
<tr>
<td>SOC 333</td>
<td>Marriage &amp; Family</td>
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</tr>
<tr>
<td>FCS 332</td>
<td>Family Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>

The Degree of Bachelor of Science in Education with a MIDDLE GRADES (4-9) CONTENT AREA OF SPECIALIZATION IN HEALTH AND PHYSICAL EDUCATION: The student must complete the following program in addition to a Field Endorsement in middle grades 4-9, another Content Area of Specialization, and General Studies requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 226</td>
<td>Safety and First Aid</td>
<td>2</td>
</tr>
<tr>
<td>HPER 313</td>
<td>Tumbling</td>
<td>1</td>
</tr>
<tr>
<td>HPER 326</td>
<td>Motor Skill Learning</td>
<td>2</td>
</tr>
<tr>
<td>HPER 335</td>
<td>Org &amp; Admin of HPER</td>
<td>3</td>
</tr>
<tr>
<td>HPER 339</td>
<td>Theory of Physical Education K-8</td>
<td>3</td>
</tr>
<tr>
<td>HPER 422</td>
<td>Intro to Adapted PE</td>
<td>3</td>
</tr>
<tr>
<td>HPER 432</td>
<td>Tests &amp; Measure in PE</td>
<td>3</td>
</tr>
<tr>
<td>Elective in Team Sport Activity Classes</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

SUPPLEMENTAL ENDORSEMENT IN COACHING (7-12): A student must complete the following program in addition to a Subject or Field Endorsement, Professional Education, and General Studies requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 220</td>
<td>Theory &amp; Principles of Coaching</td>
<td>2</td>
</tr>
<tr>
<td>HPER 226</td>
<td>Safety and First Aid</td>
<td>2</td>
</tr>
<tr>
<td>HPER 335</td>
<td>Org &amp; Admin of HPER</td>
<td>3</td>
</tr>
<tr>
<td>HPER 417</td>
<td>Sport Law</td>
<td>3</td>
</tr>
<tr>
<td>HPER 440</td>
<td>Prevention &amp; Care of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>HPER 490</td>
<td>Internship</td>
<td>2</td>
</tr>
<tr>
<td>Electives in Coaching (HPER 321, 322, 323, 423, 424, 425, 426)</td>
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MINORS

**Fitness and Exercise:** Students in Recreation may not take this minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>HPER 122</td>
<td>Foundations of Health &amp; PE</td>
<td>2</td>
</tr>
<tr>
<td>FCS 337</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HPER 119</td>
<td>Aerobics</td>
<td>1</td>
</tr>
<tr>
<td>HPER 124 &amp; 124L</td>
<td>Anatomical Kinesiology &amp; Lab</td>
<td>2</td>
</tr>
<tr>
<td>HPER 216</td>
<td>Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>HPER 217</td>
<td>Lifeguard Training</td>
<td>1</td>
</tr>
<tr>
<td>HPER 221</td>
<td>Camp Counseling</td>
<td>2</td>
</tr>
<tr>
<td>HPER 217</td>
<td>Lifeguard Training</td>
<td>1</td>
</tr>
<tr>
<td>HPER 226</td>
<td>Safety &amp; First Aid</td>
<td>2</td>
</tr>
<tr>
<td>HPER 314</td>
<td>Water Safety Instruction</td>
<td>1</td>
</tr>
<tr>
<td>HPER 422</td>
<td>Introduction to Adapted PE</td>
<td>3</td>
</tr>
<tr>
<td>HPER 436</td>
<td>Outdoor Education</td>
<td>3</td>
</tr>
<tr>
<td>HPER 490b</td>
<td>Internship</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>20</td>
</tr>
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</table>

**Leisure Services:** Students in Recreation may not take this minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>HPER 122</td>
<td>Foundations of Health &amp; PE</td>
<td>2</td>
</tr>
<tr>
<td>HPER 102</td>
<td>Riflery/Skeet &amp; Trap Shooting</td>
<td>1</td>
</tr>
<tr>
<td>HPER 114</td>
<td>Canoeing/ Casting &amp; Angling</td>
<td>2</td>
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<tr>
<td>HPER 203</td>
<td>Orienteering &amp; Backpacking</td>
<td>1</td>
</tr>
<tr>
<td>HPER 217</td>
<td>Lifeguard Training</td>
<td>1</td>
</tr>
<tr>
<td>HPER 226</td>
<td>Safety &amp; First Aid</td>
<td>2</td>
</tr>
<tr>
<td>HPER 314</td>
<td>Water Safety Instruction</td>
<td>1</td>
</tr>
<tr>
<td>HPER 422</td>
<td>Introduction to Adapted PE</td>
<td>3</td>
</tr>
<tr>
<td>*HPER 436</td>
<td>Outdoor Education</td>
<td>3</td>
</tr>
<tr>
<td>HPER 490b</td>
<td>Internship</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total</td>
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</tr>
</tbody>
</table>
Sports Leadership: Students in Recreation may not take this minor
HPER 220 Theory & Principles of Coaching ........ 2  HPER 440 Prevention & Care of Athletic Injuries ... 3
HPER 226 Safety and First Aid .............................. 2  HPER 490 Internship ........................................ 2
HPER 335 Org & Admin of HPER.......................... 3  Electives in Coaching (HPER 321, 322, 323, 423,
HPER 421 Phil & Psyc Foundation of Sport ........ 2  424, 425, 426) ................................................ 4
HPER 437 Sport Law ........................................ 3  Total 21

Physical Education (K-8)

The student must complete the following program (with a minimum G.P.A. 2.50) in addition to the General Studies
and Professional Education Requirements for Elementary Education.
HPER 122 Foundations of Health & PE.............. 2  HPER 313 Tumbling ........................................... 1
HPER 214 Advanced Swimming .......................... 2  HPER 326 Motor Skill Learning ......................... 2
HPER 335 Org & Admin of HPER....................... 3  HPER 427 Elementary Rhythms ......................... 2
*HPER 217 Red Cross Lifeguard Training ........... 4  HPER 429 Basic Move Education for Children ....... 2
*HPER 314 Red Cross Water Safety Inst ............. 1  HPER 435 Curriculum Plan in PE ...................... 3
HPER 226 Safety and First Aid ......................... 2  Total 21

*Requires a Prerequisite

COURSE DESCRIPTIONS

HPER 100 Individualized Fitness Credit 1 hour
An independently designed program to allow students to individually follow programs to meet their fitness needs.

HPER 101 Adapted Physical Education Credit 1 hour
Designed for students who have physical limitations which prevent participation in any other activity courses. Physical
and recreation activities are adapted to special needs of the students enrolled. Recommendation from a physician is
required.

HPER 102 Rifle/Skeet and Trap Shooting Credit 1 hour
To develop skills and knowledge of rifle, skeet, and trap shooting.

HPER 103 Golf Credit 1 hour
The rules of play, golf etiquette, woods, short iron shots, approach shots, putting, and regular play are emphasized.

HPER 104 Tennis Credit 1 hour
The rules, etiquette, grip, forehand strokes and backhand strokes, serving, volleying, and singles and doubles play are
emphasized.

HPER 110 Physical Fitness Credit 1 hour
Fundamentals, concepts, and design of individual fitness programs and participation in a variety of fitness activities.

HPER 111 Social Dance Credit 1 hour
To develop skills in a wide variety of social dances.

HPER 112 Aquatics Credit 1 hour
To develop an intermediate level of swimming ability.

HPER 114 Canoeing/Casting and Angling Credit 2 hours
Casting and spinning techniques, maintenance of equipment, and practical application of fishing skills, such as iden-
tifying and locating pan and game fish, types of uses of lures and live bait, and retrieving methods. To develop the skills
of canoeing, skills of carrying, launching, and positioning as well as the different types of strokes.
HPER 117  Volleyball/Soccer  
To develop skills and knowledge in the sports of volleyball and soccer.

HPER 118  Basketball/Softball  
To develop skills and knowledge in the sports of basketball and softball.

HPER 119  Aerobic Dance  
To develop the necessary skills to participate in aerobic dance and utilize the activity to enhance physical fitness.

HPER 122  Foundations of Health and Physical Education  
Overview of latest thinking and research that form the foundations of Health and Physical Education and exploration of career preparation and opportunities in the field.

HPER 124  Anatomical Kinesiology  
Detailed work on the skeletal muscular system with direct applications to movement, stretching and strengthening of skeletal muscles. Must be taken concurrently with HPER 124L. Prerequisite: HPER 122, or permission of Department Chair.

HPER 124L  Anatomical Kinesiology Lab  
Lab experience. Must be taken in conjunction with HPER 124.

HPER 134  Introduction to Athletic Training  
Prevention and basic first aid skills necessary to manage common injuries associated with sports, as well as provide techniques in emergency life support. This course will not fulfill any requirements for departmental endorsements.

HPER 202  Handball  
To develop skills and knowledge of handball.

HPER 203  Orienteering and Backpacking  
To develop the skills and knowledge to properly utilize the compass and topographical map in orienteering and the skills and knowledge required for backpacking.

HPER 205  Triathlon  
To develop the skills and knowledge necessary for a mini-triathlon, swimming, cycling, and running. Training for a class triathlon at the end of the semester. (Students must have access to a ten-speed bicycle.)

HPER 206  Advanced Weightlifting  
Individualized instruction to accommodate the advanced lifters in Olympic lifting, power lifting, body building, and program development and evaluation.

HPER 210  Badminton/Archery  
To develop skills and knowledge of badminton and archery.

HPER 212  Racquetball  
To develop the skills and knowledge of racquetball.

HPER 213  Bowling  
To develop skills and knowledge of bowling. Additional fees required.

HPER 214  Advanced Swimming  
The correct techniques in swimming nine basic strokes, front dives, and surface dives. Also includes basic rescue skills and survival swimming.
HPER 215  Fencing  Credit 1 hour
To develop skills and knowledge of fencing.

HPER 216  Weight Training  Credit 1 hour
Improve strength, increase muscle size, reduce the risk of injury, and improve general fitness levels by promoting and developing proper lifting techniques through increased knowledge of the muscle system.

HPER 217  Red Cross Lifeguard Training  Credit 1 hour
Skills and knowledge needed for lifeguarding and managing aquatic facilities. Prerequisite: Advanced swimming skills and current First Aid and CPR certificate.

HPER 218  Martial Arts  Credit 1 hour
A beginning course in one of the martial arts, covering etiquette, basic techniques, safety, rules, and contests.

HPER 219  Square and Round Dancing  Credit 1 hour
Skills and knowledge in square and round dancing.

HPER 220  Theory and Principles of Coaching  Credit 2 hours
Principles necessary to become a successful coach. Coaching theories, seasonal planning, practice planning, training methods, communication, administration, and other common coaching issues will be discussed.

HPER 221  Camp Counseling  Credit 2 hours
History and objectives of camping and the responsibilities of the camp counselor. The planning and administration of camp activities. Preparation of students for counseling and school camping.

HPER 226  Safety and First Aid  Credit 2 hours
Safety in and around the school and home. Includes American National Red Cross First Aid and Cardiopulmonary Resuscitation certification.

HPER 232  Physiological Kinesiology  Credit 2 hours
Nervous, skeletal, muscular, circulatory, and respiratory systems of the body as it applies to, and is affected by, exercise. Must be taken concurrently with HPER 232L. Prerequisite: HPER 122, 124, and 124L or permission of department Chair.

HPER 232L  Physiological Kinesiology  Credit 1 hour
Lab experience. Must be taken concurrently with HPER 232.

HPER 233  Personal Health and Wellness  Credit 3 hours
Knowledge and practice in making decisions which effect the quality of life. Developing positive attitudes toward emotional and physical fitness. An emphasis on personal health assessment, awareness and individual program planning.

HPER 234  Introduction to Recreation  Credit 3 hours
Basic concepts and philosophies of recreation and leisure, to explore the employment opportunities in the field of recreation, and to gain practical experience in designing, organizing, and conducting a variety of recreational activities.

HPER 236  Health Topics  Credit 2 hours
Designed to provide the Health Educator with an indepth knowledge base in current Health Problems in Contemporary Society.

HPER 312  Apparatus  Credit 1 hour
Fundamental, intermediate, and advanced skills, relating to the various gymnastics equipment. Emphasis is placed on teaching and spotting techniques.
HPER 313  Tumbling      Credit 1 hour
Fundamental, intermediate, and advanced skills in tumbling. Emphasis is placed on teaching and spotting techniques.

HPER 314  Red Cross Water Safety Instruction Credit 1 hour
Will qualify the student to instruct in Red Cross Swimming and Water Safety programs. Prerequisites: Swimmers Certification or equivalent skills.

HPER 321  Coaching Techniques—Football      Credit 2 hours
Fundamentals and coaching techniques in football. Prerequisite: HPER 220.

HPER 322  Coaching Techniques—Basketball      Credit 2 hours
Fundamentals and coaching techniques in basketball. Prerequisite: HPER 220.

HPER 323  Coaching Techniques—Volleyball      Credit 2 hours
Fundamentals and coaching techniques in volleyball. Prerequisite: HPER 220.

HPER 325  Teaching Individual and Dual Sports      Credit 2 hours
Techniques of teaching and coaching the individual and dual sports which may be taught to the recreation or public school student. Prerequisite: Competency in a minimum of four individual and dual sports activities.

HPER 326  Motor Skill Learning      Credit 2 hours
Exploration and explanation of materials, methods, and mechanisms that underlie the learning and performance of motor skills.

HPER 329  History of Physical Education      Credit 2 hours
Introduction to the historical development of physical education from ancient to modern times.

HPER 333  Leadership in Recreation      Credit 3 hours
Considers problems in community recreation pertaining to leadership styles, leadership roles in the areas of facilities, programs, activities, methods of organization, and administration. Prerequisite: HPER 234.

HPER 335  Organization and Administration of Health, Recreation, Physical Education and Athletics      Credit 3 hours
A study of administrative practices and their application to the fields of Health, Physical Education, Recreation, and Athletics.

HPER 339  Theory of Physical Education K-8      Credit 3 hours
Accepted theories and philosophies of kindergarten through eighth grade physical education. Special emphasis is given to theories of individual and team sports, the curriculum, the role of the teacher, and the needs of students in the Physical Education setting K-8.

HPER 400  Independent Study or Research      Credit 1-4 hours
Designed to permit students to participate in more individual investigations and individualized courses of study. Permission of Academic Dean and Department Chair required.

HPER 421  Philosophical and Psychological Foundations of Sport      Credit 2 hours
Philosophical, sociological, and psychological aspects of coaching. Prerequisite: HPER 220.

HPER 422  Introduction to Adapted Physical Education      Credit 3 hours
An overview of Adapted Physical Education. Designed to introduce students to the requirements of special needs in Physical Education as required in IDEA Amendments of 1997. Emphasis on all types of movement experiences for special populations.
HPER 423  Coaching Techniques—Wrestling  Credit 2 hours
Fundamentals and coaching techniques in wrestling. Prerequisite: HPER 220.

HPER 424  Coaching Techniques—Track  Credit 2 hours
Fundamentals and coaching techniques in track. Prerequisite: HPER 220.

HPER 425  Coaching Techniques—Golf & Tennis  Credit 2 hours
Fundamentals and coaching techniques in golf & tennis. Prerequisite: HPER 220.

HPER 426  Coaching Techniques—Baseball & Softball  Credit 2 hours
Fundamentals and coaching techniques in baseball & softball. Prerequisite: HPER 220.

HPER 427  Elementary Rhythms  Credit 2 hours
Review of rhythmic activities and the methods of teaching rhythms to the elementary school student. Students will learn to perform a variety of rhythmic activities and the methods of teaching educational dance.

HPER 428  Curriculum in Health Education  Credit 3 hours
A foundation in school health education, including health services, healthful school living, and health instruction. To develop skills in organizing and presenting comprehensive and sequential health curriculum of standard and controversial topics. Prerequisites: PSYC 131, HPER 232, 236, FCS 332, and 337.

HPER 429  Basic Movement Education for Children  Credit 2 hours
Practical experience in designing and implementing physical education activities which develop fundamental and sport-related movement skills. Prerequisite: HPER 339.

HPER 430  Seminar in HPER  Credit 1-3 hours
Investigation of special topics in health, physical education, or recreation through group study. Attempts will be made to meet the needs of groups of students. The seminar may be repeated.

HPER 431  Community and Environmental Health  Credit 3 hours
Survey of community and public health, including the basics of health organizations, environmental health problems, and dilemma of health care delivery, selected diseases, and innovations in community health. Prerequisite: HPER 236.

HPER 432  Tests and Measurements in Physical Education  Credit 3 hours
The history of measurements in physical education, the selection and administration of appropriate tests, and the integration of their results by statistical procedures.

HPER 433  Advanced Athletic Training  Credit 3 hours
Designed for students who want to pursue a career in athletic training; required for NATA certification. Prerequisite: HPER 134.

HPER 435  Curriculum Planning in Physical Education  Credit 3 hours
History and trends in Physical Education. Principles and procedures for curriculum construction and criteria for selection of activities and judging outcomes. Students will develop a K-12 Physical Education Curriculum.

HPER 436  Outdoor Education  Credit 3 hours
To acquaint prospective teachers and recreationists with the concepts of outdoor education. To better understand the use of personal leisure time in the out-of-doors. Prerequisite: HPER 234 or permission of Department Chair.

HPER 437  Sport Law  Credit 3 hours
Study of the law and implications relative to physical education and sport. Emphasis on safety procedures, preventive measures and legal responsibilities of the coach/administrator. Prerequisite: HPER 335.
HPER 439  Biomechanics of Sports  Credit 2 hours
Improve ability to teach physical education and to coach athletic teams by learning to analyze a variety of sports activities in terms of fundamental principles of mechanics. Must be taken concurrently with HPER 439L/539L. Prerequisite: HPER 122, 124, 124L, 232, and 232L or permission of Department Chair.

HPER 439L  Biomechanics of Sports Lab  Credit 1 hour
Lab experience in Biomechanics of Sports. Must be taken concurrently with HPER 439/539.

HPER 440  Prevention and Care of Athletic Injuries  Credit 3 hours
Knowledge and practice in the care of athletic injuries and physical conditioning.

HPER 490  Internship in Health, Physical Education, Recreation  Credit 1-12 hours
Provides practical experience in physical education, recreation, coaching or athletic training. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours. Prerequisites: Identification of required internships and prerequisites for each as follows:

a. Recreation: HPER 226, 234, and 333
b. Coaching: HPER 220, 335, and appropriate techniques courses (Note: Education students should not do their coaching internship while on Block or student teaching.)
c. Athletic Training: 226
CHADRON STATE COLLEGE
GRADUATE PROGRAMS

MASTER’S DEGREE PROGRAMS OF STUDY

The Master of Arts in Education is offered to students interested in:
1. Community Counseling
2. History
3. Science/Mathematics

The Master of Business Administration is offered to individuals interested in supervisory or mid-level business management.

The Master of Education degree is offered for students interested in:
1. Elementary Education – Curriculum and Instruction
2. Secondary Education – Curriculum and Instruction
   - Business Education
   - Career and Technical Education
   - Education
   - Educational Technology
   - Industrial Technology
   - Mathematics
   - Physical Education
   - Reading
   - Social Science
   - Science
3. Elementary Education – Administration
4. Secondary Education – Administration
5. School Counseling

A non-degree graduate program offering is available to students interested in the Reading Specialist endorsement.

SPECIALIST DEGREE PROGRAM OF STUDY

The Specialist degree is offered to students interested in Superintendent of Schools positions.

PURPOSE

The primary purpose of the graduate program at Chadron State College is to provide opportunities for elementary and secondary teachers, administrators, counselors, business persons, and others to further their education so that they might be better qualified to fulfill their personal, occupational, and professional goals.

The program is established primarily for candidates for the degrees Master of Education, Master of Arts in Education, Master of Business Administration, and Specialist in Education, but some courses are open to unclassified students not intending to complete work toward a master’s or a specialist degree.

All courses on the graduate level shall require of students greater intellectual effort, more independence in reading and investigation, and more constructive thinking than do the undergraduate courses offered for the baccalaureate degree.

OBJECTIVES

The specific learning objectives of the graduate program are as follows:

- Students will acquire and be able to apply principle qualities of leadership.
- Students will obtain a broader and deeper knowledge base, both within their field of specialization and in broader areas, to increase their professional effectiveness.
- Students will gain intellectual stimulation and foundations for more advanced study.
• Students will understand and apply research techniques to interpret current thinking and practices in their fields of specialization.
• Candidates will understand the nature and significance of research, and have opportunities to apply research techniques.
• Students will be provided with a rigorous core program of advanced courses in a flexible arrangement to meet their individual needs.
• Students will be prepared for professional positions in education, business, counseling, and other areas.

GRADUATE COUNCIL AND FACULTY

The Graduate Council is responsible to the college administration for directing the graduate program under the regulations of the Board of Trustees of the Nebraska State Colleges. This Council, on behalf of the Graduate Faculty, supervises all graduate work in the college, establishes policy, and recommends to the President all candidates for conferring of graduate degrees.

Graduate faculty members may teach graduate courses, supervise and serve on supervisory committees for students working toward post-baccalaureate degrees, vote on all matters presented to the Graduate Faculty, serve on the Graduate Council, and vote on nominations to the Graduate Council.

GRADUATE COMMITTEE

A Contact Advisor will be assigned for initial advising after a student is accepted for graduate study. This advisor will assist the student in obtaining a Program Advisor in the area(s) of concentration. The program advisor will complete the Advisor Appointment Form available in the Graduate Office. After the Program Advisor is appointed, a Graduate Committee should be selected in consultation with the student and the Program Advisor. The Program Advisor should complete the Graduate Committee Appointment Form. The Graduate Committee will consult with the student on the “Plan of Study” and conduct the Oral Examination.

ASSESSMENT

Chadron State College is committed to the improvement of teaching and learning, as part of a continual effort to monitor institutional effectiveness. This effort includes the assessment of student academic achievement as made evident by nationally normed examinations; capstone courses; demonstrations of acquired proficiency in disciplinary-based skills; development of portfolios; oral examinations; surveys of students and alumni; and other assessment measures. The College requires all graduate students to participate in the assessment program for the duration of their enrollment.

GRADUATE ADMISSION POLICIES

<table>
<thead>
<tr>
<th>Students taking graduate coursework belong in one of two categories:</th>
</tr>
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<tbody>
<tr>
<td>1. Degree-Seeking Graduate Student: A student pursuing a program of study leading to an advanced degree is considered to be a degree-seeking graduate student. To be classified as a degree-seeking graduate student, the student must have applied and been accepted for admission to graduate study.</td>
</tr>
<tr>
<td>2. Non-Degree Seeking Graduate Student: The student who does not wish to pursue a degree, who is not permitted to do so, or has not yet met the requirements for admission to graduate study is classified as a non-degree seeking graduate student. A student in this classification may take graduate courses for purposes such as certification, self-improvement, or employment requirements. The non-degree seeking graduate student must meet stated admission requirements, file a petition with the Graduate Office, and be approved by the Dean of Education and Graduate Studies. Limited hours completed by a non-degree seeking student may apply toward a degree program.</td>
</tr>
</tbody>
</table>

Undergraduate and graduate students who have not applied for graduate study must obtain permission to take graduate classes. Forms are available from the Graduate Office.
The following prerequisites exist for students taking graduate coursework:

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 level</td>
<td>Completion of a baccalaureate degree or within 16 semester hours of graduation for graduate credit, or completion of 90 semester hours for undergraduate credit</td>
</tr>
<tr>
<td>600 level</td>
<td>Completion of a baccalaureate degree</td>
</tr>
<tr>
<td>700 level</td>
<td>Completion of or within 12 semester hours of completing a master’s degree. A student may complete no more than 6 semester hours of 700 level coursework prior to completing a master’s degree.</td>
</tr>
</tbody>
</table>

Prior to being considered for “Graduate Study,” all students must hold an earned baccalaureate degree from a regionally accredited institution of higher education. Students seeking the Master of Arts in Education or Master of Education will be required to submit an application and attain required scores on the Graduate Record Examination (GRE) General Test, and other appropriate examination/s as determined by the department from which the student is seeking a degree. Those seeking the Master of Business Administration Degree (M.B.A.) will be required to submit an application, attain required scores on the Graduate Management Aptitude Test (GMAT), and meet other stipulated entrance requirements.

In the student’s program leading toward any master’s degree there are **four** important steps to be followed:

1. Admission to graduate study
2. Admission to graduate status
3. Application for oral examination
4. Application for graduation

Students must apply for each step by completing the appropriate forms, which are available from the Graduate Office. After submission of appropriate forms each graduate student will be notified officially in writing concerning his/her admission or failure to be admitted at each of the **four** steps. The graduate student is expected to complete these and other requirements that must be met for the completion of the degree.

**ADMISSION TO GRADUATE STUDY**

Admission requirements are specific to the Degree program being sought, and are listed under the respective degree programs. Deadline for admission to the graduate study program is April 1 for the summer and fall terms, and October 1 for the spring term.

**ADMISSION TO GRADUATE STATUS**

(For all master’s degrees)

After being accepted for graduate study and between 9 and 18 hours into a program, the prospective candidate for the master’s degree should make application for admission to graduate status. At this time the student must:

1. Have earned at least nine hours of Chadron State College graduate credit with a 3.0 grade point average or higher.
2. Prepare and submit a “Plan of Graduate Study,” signed by the advisor and committee, to the Graduate Office for approval.

The program advisor is to inform the Graduate Office of any deficiencies the student may have in the areas of concentration, usage of the English language, and in teaching or other appropriate employment experience. The advisor will present written recommendations for admission of the student to Graduate Status or for removal of deficiencies.

**APPLICATION FOR ORAL EXAMINATION**

(For all master’s degrees)

All candidates for all master’s degrees are required to pass a final oral examination in their areas of concentration. Students choosing the thesis or scholarly project paper option will have questions relating to the thesis or scholarly project paper included in this examination.

Following successful completion of the oral examination, approval forms will be signed by the student’s committee and presented to the Dean of Professional and Graduate Studies.
APPLICATION FOR GRADUATION
AND CONFERRING OF DEGREE

(FOR ALL MASTER’S DEGREES)

The formal application for the degree should be filed with the Dean of Professional and Graduate Studies at the beginning of the term prior to which the student expects to graduate. Candidates who plan to complete requirements for graduation in December must file formal application prior to April 15. Those who plan to graduate in the spring must file prior to November 15. Application forms are available in the Graduate Office. At the time the application is submitted all indebtedness to the college and the graduation fee must be paid.

Graduate degrees will be conferred upon successful candidates at the spring or winter commencement.

INTERNATIONAL STUDENTS

Qualified students from other countries and cultures who can bring to Chadron State College direct contact with the heritage of their peoples and nations are welcome to apply for admission. Inquiries concerning international undergraduate student admission may be directed to the Admissions Office.

International students must fulfill the procedures below:

1. Complete the International Student Application form and submit the non-refundable admission/matriculation fee in U.S. dollars to the Admissions Office. Applicants residing in a foreign country should make application no later than six months prior to the anticipated enrollment date. Students in the United States should allow four months to complete the admission process.

2. Transfer students in the United States must submit transfer authorization from the appropriate immigration officials. Complete transcripts from each college attended must be filed with the Registrar’s Office.

3. Demonstrate competency in the English language by providing official test scores on the Test of English as a Foreign Language (TOEFL). A minimum score of 550 is required for students taking the paper-based test and a minimum score of 213 is required for those taking the computerized test.

4. Provide evidence of capability to finance a program of study without assistance from Chadron State College.

5. Provide their own insurance protection covering hospital and medical expenses, evacuation, and repatriation. Proof of adequate coverage must be supplied to Chadron State College each year.

6. Health Form Requirement: All students entering any institution of the Nebraska State College System must show a physician-validated immunization record for two doses of measles, rubella, diphtheria, and tetanus. International students are required to present a record of skin testing for tuberculosis within six (6) months prior to first enrollment. This evidence must be presented before a student is permitted to register. (Individuals born before January 1, 1957 are considered immune to measles [rubeola] and are not required to show proof of two doses of MMR.)

7. The International student must provide personal recommendations from former instructors, sponsors, or other persons who may be responsible for the applicant. These recommendations should be completed on the recommendation forms provided by the Graduate Office on the Chadron State College campus. These forms are to be returned to the Graduate Office.

Issuance of the Certificate of Eligibility, Form I-20, will be made only upon completion of all admission requirements. The applicant assumes full responsibility to make all necessary arrangements through official channels for entrance into the United States.
STUDENT REGISTRATION

ADVISING

Although the student is responsible for meeting all conditions and requirements of Chadron State College, faculty engage in program advising to assist students in attaining their academic goals.

CLASS REGISTRATION

Responsibility for planning one’s course of study and for the fulfillment of all requirements and regulations lies with the student. The College General Bulletin is the authoritative source of information on program and graduation requirements and regulations. Program advisors are assigned to aid the student in understanding the requirements and in planning his/her academic program.

Registration days are specified in the published class schedules. Students are encouraged to register for classes during the early enrollment period to ensure course availability. The College reserves the right to cancel courses with low enrollment. Furthermore, the College reserves the right to modify the published schedule without prior notice.

Courses numbered 500 through 599 are open to qualified seniors who have completed a baccalaureate degree or are within 16 semester hours of baccalaureate graduation. Undergraduate students wishing to register for graduate courses must submit written petition to the Dean of Professional and Graduate Studies.

Courses in the 600 series are open only to graduate students. Courses numbered 700 through 799 are for students who have completed the Master’s degree.

Course Load

A full load during the Fall and Spring Semester is considered to be nine graduate semester hours. During the Fall and Spring terms, twelve semester hours of graduate coursework is considered the maximum load without receiving permission from the Dean of Professional and Graduate Studies.

The maximum load for a full-time resident graduate student during each summer session is six semester hours.

Late Registration

No students may register for a current semester after classes have been in session for five days without permission from the appropriate Academic Dean. After the tenth day of the semester, approval of the Senior Vice President for Academic and Student Affairs is required.

Audit Registration

Any student may elect to audit a class. An audited class does not count toward any graduation requirements at Chadron State College and is recorded as an “AU” on the academic transcript. Current tuition and fees are charged for audited courses.

Students may change from credit to audit until the seventh week of the semester, or before the midterm of non-semester offerings. However, changing a course from audit to credit is not allowed following the first week of courses in a semester, or the first day of summer classes.

Persons 65 years of age and older who audit one course per semester on a space-available basis may petition for a waiver of tuition for that course. Fees will not be waived. Self-paced study, private lessons, and other courses with no available space are not available for this program. Forms are available from the Assistant Vice President for Enrollment Management.

Changes of Registration and Withdrawal

Any change of registration must be initiated by the student at the Registrar’s Office. The effective date of the change is the date on which the completed forms are processed by the Registrar’s Office.

1. Adding or withdrawing from classes during the drop-add period: During the first five days of a term and during the first two days of a summer session, a student may add or drop courses without academic penalty.
2. **Withdrawing from classes:** A student who withdraws from a course after the 100% refund period but before the end of the eleventh full week (or before the midterm of a non-semester offering) receives a grade of W. This grade is not computed into the grade point average. After the eleventh week (or after the midterm of a non-semester offering) a student may not withdraw and a grade other than W must be recorded.

3. **Withdrawing from the College:** A student who withdraws from the College after the 100% refund period but before the end of the eleventh week (or before the midterm of a non-semester offering) will receive a grade of W for each course. A student who withdraws from the College after the eleventh week (or after the midterm of a non-semester offering) will receive a grade of W for courses the student is passing and F for courses the student is failing.

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**TUITION, FEES AND FINANCIAL AID**

**COST AND REFUND**

The Board of Trustees for the Nebraska State Colleges has established a schedule of tuition and fees to be charged by the State Colleges. This may be obtained from the Business Office.

Refunds on tuition for the academic year are pro-rated, based on a schedule available in the Business Office. Students who are recipients of Title IV funds will be subject to the student refund procedure requirements of the Higher Education Authorization Act of 1998. Details regarding this requirement are available at both the Business Office and the Financial Aid Office.

**FINANCIAL AID**

Financial aid is available for those seeking a degree or teacher certificate program from Chadron State College. Students seeking financial aid must complete the admissions requirements for the degree program and the Free Application for Federal Student Aid (FAFSA) to qualify for consideration of financial aid.

Applications for financial assistance will provide consideration for the Stafford Loan, Perkins Loan, Work Study, and the Supplemental Loan for Students. Contact the Financial Aid Office for further information.

**GRADUATE ASSISTANTSHIPS**

A limited number of Graduate Assistantships are available for students enrolled in a graduate degree program. Assistantships offer assignments designed to provide opportunities for supervised educational experiences at the graduate level. Students interested in Graduate Assistantships should contact the Graduate Office for further information and application forms.

**NON-RESIDENT CLASSIFICATION FOR ADMISSION AND FEE ASSESSMENT**

The statutes of Nebraska provide that all state educational institutions shall charge a non-resident fee for each non-resident of Nebraska who matriculates at any state institution policies, based upon evidence provided in the Application for Admission and related documents. Additional written documents, affidavits, verification, or other evidence may be required as deemed necessary to establish the status of an applicant. The burden of establishing exemption from non-resident fees is the responsibility of the student. Erroneous classification as a resident or willful evasion of non-resident fees may result in disciplinary action, which may include dismissal as well as payment of required fees for each semester attended.
A student classified as a non-resident retains this status until he/she is officially approved for reclassification as a resident by completing the Application for Residency Classification Form, which is available in the Admissions Office. A student classified as a resident but who becomes a non-resident as provided by the statutes shall promptly notify the Admissions Office of such change. Residency status may be challenged when circumstances indicate a change of legal residence. Any sanctioned change of classification from non-resident to resident will not be made retroactive beyond the period in which the change is approved.

**STUDENT ACADEMIC PERFORMANCE**

**ACADEMIC GRADING PERFORMANCE**

The following grades are currently used at Chadron State College:

- **A** — Superior performance
- **B** — Excellent performance
- **C** — Average performance
- **D** — Below average performance
- **I** — Indicates some portion of the student’s work is unfinished due to a justifiable reason. Issued at the discretion of the faculty member and academic School Dean, the “I” is replaced with a grade when the work is completed. If the work is not completed within twelve months or a shorter time frame as specified on the Request for an Incomplete form completed by the instructor, the grade of incomplete remains permanently on the record (effective August 26, 1974).
- **IP** — Indicates a course continuing into the next term.
- **P** — Passing performance
- **F** — Failure to meet minimum requirements, or student failed to officially withdraw from course.
- **W** — Indicates official withdrawal from a course with a passing grade.
- **AU** — Indicates a non-graded participation in a course. Registration for audit requires full tuition and fees, even though no credit is awarded. The grade is automatically “AU.” With the instructor’s permission, a student may change from credit to audit until the seventh week of a semester-based course or midterm of a nonsemester offerings. Changing from audit to credit is permitted only during the first week of the semester, or the first day of a summer term.

With the exception of the Thesis or Scholarly Project, students have one year to complete a course and have an “I” changed to a letter grade. After such time, the “I” becomes permanent and may not be removed. The “IP” is issued only when the course is still in progress at grade reporting time.

No grade of “C” or lower may be transferred in to a graduate program from other institutions. Additionally, grades of pass/fail or satisfactory/unsatisfactory are not accepted on a graduate program. A maximum of six hours of “C” are permitted in any graduate program. No grade of “D”, “F”, “I”, “W”, “AU”, or “IP” will count toward meeting graduation requirements.

**Grade Point Average**

Chadron State College assigns quality points to letter grades as follows:

- **A** ............... 4 points
- **B** ............... 3 points
- **C** ............... 2 points
- **D** ............... 1 points
- **F** ............... 0

To determine grade point average, the total number of quality points earned for each attempted credit hour is divided by the total credit hours attempted (including semester hours passed and failed). The Chadron State College grade point average is computed only for courses taken at Chadron State College.
STANDARDS OF SCHOLARSHIP

Master’s Degree

An average grade of 3.0 (B) is required on all work presented in fulfillment of the requirements for the master’s degree. Not more than six semester hours of graduate work with a grade of “C” will be accepted. The candidate must have established an academic average of at least 3.0 (B) for the entire graduate program, which shall not exceed six semester hours beyond the approved program.

No grade lower than “C” will be accepted for graduate study toward the master’s degree. A graduate student who has not demonstrated the ability to do satisfactory work following one semester or two summer terms may, upon the recommendation of the major professor and with the concurrence of the Graduate Dean and/or Council, be requested to withdraw from the program.

Specialist Degree

The candidate must have established an academic average of at least 3.25 for the entire Specialist program, which shall not exceed six semester hours beyond the approved program. Not more than six semester hours of graduate work with a grade of “C” will be accepted toward the Specialist degree. No grade lower than “C” will be accepted for graduate study toward the Specialist degree. A graduate student who has not demonstrated the ability to do satisfactory work, following one semester or two summer terms may, upon the recommendation of the advisor and with the concurrence of the Graduate Council, be requested to withdraw from the program.

STUDENT CONDUCT

ACADEMIC HONESTY

Students are encouraged and expected, with the assistance of the faculty, to conduct themselves in conformity with the highest standards with regard to academic honesty. Violation of college, state, or federal standards with regard to plagiarism, cheating, or falsification of official records will not be tolerated. Students violating such standards will be advised and disciplined. Violations of these standards may result in course failure, suspension, or dismissal from the college. Students are recommended to seek the advice of instructors as to the proper procedures to avoid such violations.

CIVILITY

Civil behavior enhances the academic setting, and is expected at all times. Courtesy and respect for others are essential elements of the academic culture. The academic environment welcomes a difference of opinion, discourse, and debate within a civil environment.

CLASS ATTENDANCE

Faculty provide added value to individual study, facilitating understanding, interpretation, and application of information available to students through assigned readings, external learning opportunities, and in-class presentation. Attendance during regularly-scheduled class presentations significantly facilitates academic success, and students are expected to be present during scheduled class periods. Students who are absent from class should consult their professors, as any absence jeopardizes the student’s understanding of the course material. Faculty members are encouraged to assist students with make-up work if the absence was for college-related activities or approved by the faculty member as an unavoidable absence. Responsibility for arranging make-up study rests with the student.

Lists of students anticipating absence for college-related activities will be distributed to faculty. These students will be excused from their classes but not from the work required in those classes.
PETITION FOR WAIVER OR EXCEPTION OF COLLEGE ACADEMIC REGULATIONS

Any request for waiver or exception to the graduate academic policies and regulations stated in the Chadron State College General Bulletin must be submitted as a written petition to the office of the Senior Vice President for Academic and Student Affairs. Consideration will be given to the petition by the Graduate Council, Graduate Dean, or Senior Vice President, as appropriate. A written response will be returned to the petitioning student.

Appeals of decisions pertaining to a graduate student’s program may be initiated by the student and addressed to the Dean of Professional and Graduate Studies.

The student should submit a dated and signed letter which addresses:
1. What decision is being appealed.
2. Date of decision being appealed.
3. Justification for the appeal.
4. Desired outcome.

If the student is not satisfied with the decision, then the formal Grievance Procedure may be utilized, if appropriate.

GENERAL GRADUATE PROGRAM REQUIREMENTS

PROGRAMS OF STUDY

To serve the educational needs of western Nebraska and adjoining areas, Chadron State College offers programs of study leading to:
- Master of Arts in Education
- Master of Business Administration
- Master of Education
- Specialist in Education

REGULATIONS REGARDING GRADUATION

The following regulations apply to graduation from all graduate programs.

1. Course application toward graduation
   a. Credit earned by correspondence (self paced) study will not be accepted in fulfilling requirements for a master’s or specialist degree.
   b. No coursework carrying the IN S (inservice) prefix may be applied toward a master’s or specialist degree.
   c. A graduate student may apply up to six semester hours of coursework taken on an independent study basis toward a master’s degree or a specialist degree program.

2. Transfer of Credit
   a. Master’s Degree: A maximum of nine semester hours graduate credit may be transferred from other approved colleges or universities with the exception that 18 semester hours may be transferred from the University of Nebraska-Lincoln toward the Master of Business Administration degree. All transfer credit must carry a grade of “B” or higher. Transfer credit with grades of “P” or “S” will not be accepted. Acceptance of transfer credit is contingent upon approval of the Graduate Committee, Dean of Professional and Graduate Studies, and the Graduate Council. Transfer credit may not be counted toward meeting the minimum residence requirement.
   b. Specialist Degree: A maximum of nine semester hours graduate credit may be transferred from other approved colleges or universities. All transfer credit must carry a grade of “B” or higher. Transfer credit with grades of “P” or “S” will not be accepted. Acceptance of transfer credit is contingent upon approval of the graduate committee, Dean of Professional and Graduate Studies, and the Graduate Council. Transfer credit may not be counted toward meeting the minimum residence requirement.
3. Time Limit on Coursework
   a. Master’s Degree: All requirements for the master’s degree must be met within a period of seven years from the year the student completes the first graduate course that is to apply toward the degree.
   b. Specialist Degree: All requirements for the Specialist degree must be met within a period of five years from the year the student completes the first graduate course that is to apply toward the degree.
   c. Validation of Out-of-Date Credit: Coursework that has been taken prior to the specified time limit before completion of the degree is considered to be outdated. This coursework may be applied to the graduate degree if a grade of “B” or higher was attained and if one of the following occurs:
      1. the equivalent CSC course is audited with the stipulation that the professor teaching the course must sign a statement verifying regular attendance, satisfactory performance on the final examination (if one is given), and performance at a level to warrant validation of the course
      OR
      2. a written or oral examination covering the subject matter is successfully completed as certified by an appropriate faculty member(s). If an oral examination is given, at least two graduate faculty members must be present. The Dean of Professional and Graduate Studies and the graduate committee chairperson will appoint the faculty to administer the examination. Details of the time and place of the examination must be registered with the Graduate Office.

Approval to validate credit must be obtained through the graduate committee and Dean of Professional and Graduate Studies.

4. Course Level Requirements
   a. Master’s Degree: At least one-half of the semester hours required for the master’s degree must be taken in classes in which only graduate students may enroll (600 level or higher).
   b. Specialist Degree: The student must complete, including the thesis or field study, not fewer than 30 semester hours of graduate work beyond the master’s degree. At least 12 semester hours of coursework must be comprised of courses numbered at the 700 level, and at least 21 semester hours must be at the 600 or 700 levels.

5. Curriculum Patterns
   a. Master’s Degree: All graduate students seeking the degree of Master of Arts in Education or Master of Science in Education should complete EDCI 631, “Introduction to Graduate Study,” within the first 12 hours of their program of study. All graduate students (including those seeking the M.B.A. Degree) must select one of the following plan options:

Plan I (Thesis with Oral Examination)

Plan I - Requires a thesis pertaining to the field of specialization. Six semester hours of credit are awarded for successful completion of the thesis.

Following are general guidelines for preparation and submission of the thesis and accompanying oral examination.

1. After acceptance into graduate study and successful completion of Introduction to Graduate Study” or its equivalent and at least two-third’s of total number of program hours are completed, the student presents a thesis proposal under the guidance of the advisor. This presentation is to be made in a formal meeting with the student’s graduate committee. The thesis must convey conclusions on some subject directly related to the candidate’s area of specialization. Although the topic does not necessarily have to be original or to seek new answers, it should attempt to establish a point previously unsupported or to verify existing knowledge. The thesis topic should be so designed that the student receives training in the art and techniques of scientific inquiry, employing one or more of the commonly accepted tools of educational research.

2. The student’s committee has the responsibility to carefully scrutinize, make recommendations and accept, accept with modifications, or not accept the proposal.

3. After acceptance by the committee, the proposal and outline will be submitted to the Dean of Professional and Graduate Studies for approval.

4. Those choosing the thesis option must register for a total of six (6) semester hours thesis credit. Registration for all six hours or any portion thereof may be made at the beginning of any semester or summer term following approval of the thesis proposal. Written approval from the Institutional Review Board is required if the student will be using a data collection tool that involves human or animal subjects.
5. The student is ultimately responsible for the progress and completion of the thesis.
6. The thesis will be written under the direct supervision or guidance of the advisor.
7. The accepted writing style is APA, however some disciplines may require their particular style.
8. When the student and advisor are satisfied with the thesis, it is to be submitted to the student’s committee for review and approval.
9. After acceptance of the thesis by the advisor and committee, an oral examination will be scheduled. Copies of the thesis must be presented to the committee members at least two weeks before the scheduled date of the oral examination. The oral examination will include questions regarding the thesis, coursework, and other material relevant to the student’s field of study. The oral examination must be taken at least two weeks prior to the date of graduation or granting of the degree. (The final date for oral examinations is posted each term in the Graduate Office.) Students completing oral examinations after the specified date will not be eligible for graduation until the next graduation or diploma granting date. Approval forms will be signed by the committee after successful completion of the thesis and oral examination.
10. All Plan I students must furnish an abstract of 150 words to the Graduate Office.
11. The examining committee members will sign a statement verifying the outcome of the oral examination. This statement is to be presented to the Dean of Professional and Graduate Studies.
12. After the candidate has successfully passed the oral examination, he/she will deposit an unbound original and three unbound copies (four total) of the thesis and five copies of the abstract to the Dean of Professional and Graduate Studies. One copy will be placed in the Library, one copy will be archived, one copy will be presented to the thesis committee chairperson, and one copy will be returned to the student. The remaining abstract will be retained in a file of abstracts. The expense of binding is the responsibility of the student. Contact the Graduate Office for specific instructions.

Plan II (Scholarly Project with Oral Examination)

Plan II requires a scholarly project pertaining to the field of specialization. Three (3) semester hours of credit are awarded for successful completion of the scholarly project.

The project is to be designed in consultation with the student’s graduate committee.

Following are general guidelines for preparation and submission of the project and accompanying oral examination.

1. After acceptance into graduate study and successful completion of “Introduction to Graduate Study” or its equivalent, the student should present a scholarly project proposal under the guidance of the advisor. This presentation is to be made in a formal meeting with the student’s graduate committee. The scholarly project must convey conclusions on some subject directly related to the candidate’s area of specialization. Although the topic does not necessarily have to be original or to seek new answers, it should attempt to establish a point previously unsupported, or verify existing knowledge. The scholarly project topic should be so designed that the student receives training in the art and techniques of scientific inquiry, employing one or more of the commonly accepted tools of educational research.
2. Those choosing the project option must register for three (3) semester hours credit. This registration may be made at the beginning of any semester or summer term following the approval of the project topic.
3. The student is ultimately responsible for the progress of the project.
4. The accepted writing style is APA, however some disciplines may require their particular style.
5. When the student and advisor are satisfied with the project it is to be submitted to the student’s committee for review and approval.
6. After acceptance of the project by the advisor and committee, an oral examination will be scheduled. Copies of the project paper and related materials must be presented to the committee members at least two weeks before the scheduled date of the oral examination. The oral examination will include questions regarding the scholarly project, coursework, and other material relevant to the student’s field of study. The oral examination must be taken at least two weeks prior to the date of
graduation or granting of the degree. (The final date for oral examinations is posted each term in the Graduate Office.) Students completing oral examinations after the specified date will not be eligible for graduation until the next graduation or diploma granting date. Approval forms will be signed by the student’s committee and presented to the Dean of Professional and Graduate Studies after successful completion of the oral examination.

7. All Plan II students must furnish an abstract of approximately 150 words to the Graduate Office.

8. After the candidate has successfully passed the oral examination, he/she will present an original and three copies (four total) of the project paper and five copies of the abstract to the Dean of Professional and Graduate Studies. Each project paper should be contained in an approved black theme binder. One copy will be placed in the Library, one copy will be archived, one copy will be presented to the supervising professor, and one copy will be returned to the student. The remaining abstract will be retained in a file of abstracts. The expense of binding is the responsibility of the student. Contact the Graduate Office for specific information.

Plan III (Coursework with Oral Examination)

Plan III does not require a scholarly project or thesis. Students are required to complete the designated coursework in their area of specialization.

Students choosing this option will be required to successfully pass an oral examination. The oral examination will include questions regarding coursework and other material relevant to the student’s field of study. Approval forms will be signed by the student’s committee and presented to the Dean of Professional and Graduate Studies after successful completion of the oral examination.

The oral examination must be taken at least two weeks prior to the date of graduation or granting of the degree. (The final date of oral examinations is posted each term in the Graduate Office.) Students completing oral examinations after the specified date will not be eligible for graduation until the next graduation or diploma granting date.

Note: Plan III is not available in all departments. Contact the Dean of Professional and Graduate Studies for more information.

b. Specialist Degree: A student at the Specialist degree level may choose between a thesis or field study option on a topic approved by the committee and related to the area of specialization. For either option, the student must submit three copies of the unbound document to the Graduate School at least 15 days before the close of the semester or summer term in which he/she is certified for graduation. Four copies of the thesis abstract, not to exceed 500 words and suitable for publication, must be presented to the Graduate Office within the same time limitation during the semester or term in which the student is planning to graduate.

All field experience classes require:

(1) affirmation under oath that the student has no felony conviction or misdemeanor conviction involving abuse, neglect, or sexual misconduct (Guide to Nebraska Teacher Education Institutions, Nebraska Department of Education, Code Section 004.01, subsection 00411D).

(2) Affirmation under oath that the student does not have an order or determination currently in effect by a court or any other government body which finds the student to be any of the following: mentally incompetent to stand trial, acquitted of criminal charges because of insanity, an incapacitated person in need of a guardian, or unable to manage his/her property due to mental illness, mental deficiency, chronic use of drugs or chronic intoxication; or is currently an inpatient or resident in a mental health facility due to a determination by a qualified mental health professional (Guide to Nebraska Teacher Education Institutions, Nebraska Department of Education, Code Section 004.01, subsection 004.01L).
6. Residence Requirements
   a. Master’s Degree: At least twelve of the semester hours required for advanced degrees must be classified as “residence credit.” “Residence credit” courses are those taught by a member of the Chadron State College Graduate Faculty, either on or off-campus.
   b. Specialist Degree: At least one-half of the courses required for the Specialist degree must be taught by a member of the Chadron State College Graduate Faculty, either on or off-campus.

7. Oral Examination
   All candidates for the master’s degree are required to pass a final oral examination in their area of concentration. Students choosing the thesis or research project paper option will have questions relating to the thesis or research project paper included in this examination.
   The student’s graduate committee will conduct the oral examination. If a member of the committee is unavailable and rescheduling is inappropriate, a substitute may be appointed by the Dean of Professional and Graduate Studies. With the candidate’s knowledge, the examining committee may invite other individuals to be present at the oral examination.
   The oral examination must be taken at least two weeks prior to the date of graduation or granting of the degree. Students completing oral examinations after the specified date will not be eligible for graduation until the next graduation or diploma granting date.
   Prior to the oral examination, a personal data sheet is to be prepared by the student and distributed to all members of the examination committee. It should include such items of information as professional and educational background, courses completed, and anticipated educational and career goals.
   Following successful completion of the oral examination, approval forms will be signed by the student’s committee and presented to the Dean of Professional and Graduate Studies.

8. Portfolio
   All candidates for the Master’s and Specialist in Education degrees are required to compile a professional and academic portfolio in their area of concentration. The portfolio is a purposeful, collaborative, self-reflective collection of the student’s work generated during the process of the graduate program. The procedures and content needed for portfolio construction are outlined in materials obtained from the Graduate Office.
   The student will submit the completed portfolio, for assessment by his/her graduate committee, prior to the final oral examination. Upon review and acceptance of the student’s portfolio, approval forms will be signed by the student’s committee and presented to the Dean of Professional and Graduate Studies.

SECOND MASTER’S DEGREE

Students holding a master’s degree may seek a second master’s degree in another program area. If the first degree was not awarded by Chadron State College, the student should apply as stated under “Admission to Graduate Study.” If Chadron State College awarded the first master’s, the student should contact the Dean of Professional and Graduate Studies. A second master’s requires appointment of a graduate committee; additional coursework; acceptance into Graduate Study, Graduate Status and Candidacy; and an Oral Examination. No more than twelve semester hours of approved coursework from the previous degree may be applied toward a second master’s degree.

MASTER OF ARTS IN EDUCATION

DESCRIPTION OF PROGRAM OFFERINGS

The Master’s of Arts in Education degree program consists of an integrated knowledge core complemented by a coherently-focused academic program tailored to meet the needs of students. Based upon the communication and service core of education, this professional degree program provides an integrated master’s degree for students pursuing non-educational career choices. Areas of study include Community Counseling, History, and Science/Mathematics.
APPLICATION FOR ADMISSION TO GRADUATE STUDY IN THE MASTER OF ARTS IN EDUCATION PROGRAM

Following are criteria for acceptance into Graduate Study in the M.A.E. Program:

1. Application for admission to graduate study must be completed on forms available from the Graduate Office. Deadline for admission to the graduate study program is April 1 for the summer and fall terms, and October 1 for the spring term.

2. Students must possess an earned baccalaureate degree from a regionally accredited institution. General education at the baccalaureate level is a prerequisite for admission to all Master of Arts in Education degree programs at Chadron State College.

3. Students must submit to the Graduate Office an official transcript from each college or university previously attended. (In order to be considered an official transcript, it must be sent directly to Chadron State College from the college or university.) Transcripts from Chadron State College need not be submitted.

4. Students must submit three satisfactory recommendations completed by school administrators, college instructors, or other appropriate persons. These recommendations are to be placed on an official “Recommendation Form” available from the Graduate Office.

5. Applicants must have a 2.75 undergraduate GPA or above on a 4.0 scale.

6. Applicants must submit GRE Scores. Minimum satisfactory GRE scores have been set at the levels below:
   - Verbal = 350
   - Quantitative = 410
   - Analytical Writing = 3.0

   Students performing unsatisfactorily on the GRE may be accepted by the Graduate Council on a conditional basis. Students accepted on a conditional basis will have terms of the condition stated in writing. These terms may include maintenance of a stated grade point average, additional coursework, or another method of remediation. Students may retake the GRE to improve their scores.

7. Students admitted to graduate study may be required to spend more than the minimum time to complete the work for the master’s degree. The Graduate Council may require students to make up any deficiencies in preparation by completing specified courses without credit toward the desired degree.

Graduate Study, Graduate Status, and Applications for Oral Examination and Graduation are separate and independent levels in the degree program. Students must apply for and be approved for each level.

Note: The graduate student must complete at least 24 semester hours of graduate coursework after being accepted for graduate study.

The Dean of Professional and Graduate Studies and the Graduate Council will examine documents submitted and make one of the following determinations:

Acceptance: The Graduate Dean approves the application and the student advances into Graduate Study. If the Dean and/or Council have areas of concern, those concerns will be stated. Additional coursework or other appropriate requirements may be required.

Conditional Acceptance: The Dean and/or Graduate Council recognize certain deficiencies and may require additional coursework, evaluative testing or other appropriate requirements. The student may then advance to Graduate Study on a conditional basis and progress is monitored.

Non-Acceptance: The Graduate Dean and/or Council do not approve the application at this time and the student does not advance into Graduate Study. Reasons for non-approval and possible avenues toward acceptance will be stated.
MASTER OF ARTS IN EDUCATION
DEGREE PROGRAMS

The degree of Master of Arts in Education,
COMMUNITY COUNSELING

The Community Counseling Program offers a Master of Arts degree. This degree program requires the successful completion of 48 credit hours of graduate education. EDCI 631, Introduction to Graduate Study, should be completed within the first 12 hours of a student’s program of study.

Objectives

The objectives of the Community Counseling program are:

a. to demonstrate knowledge about human growth and development; social and cultural foundations; helping relations; groups, career and life-style development; appraisal; research and program evaluation; and professionalism;

b. to demonstrate entry-level clinical skills as a professional counselor;

c. to demonstrate knowledge of the principles of the Code of Ethics of the American Counseling Association (ACA);

d. to apply ACA’s ethical principles professionally;

e. to fulfill the pre-graduation requirements of Title 172, Nebraska Department of Health Professional and Occupational Licenses Regulations, in the areas of course content and supervised clinical;

f. to understand the needs of rural populations and to develop appropriate referral and networking skills;

g. to demonstrate empathy and skill with counseling diverse cultural, social, and gender groups;

h. to understand one’s personal and professional strengths and weaknesses and to maintain supervisory and peer consultation relationships;

i. to provide consultation services to one’s local, state and professional community; and

j. to understand research design sufficiently well to comprehend professional journal literature.

Program of Study

The Community Counseling Program prepares students to work professionally in various public and private counseling agencies. In Nebraska, as well as most states, persons must be licensed by the state to engage in counseling or therapy. A teaching degree is not required for admittance into the Community Counseling Program.

Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 531</td>
<td>Counseling and Communication Skills</td>
<td>3</td>
</tr>
<tr>
<td>COUN 532</td>
<td>Treatments Issues in Addiction</td>
<td>3</td>
</tr>
<tr>
<td>COUN 533</td>
<td>Ethical and Legal Issues</td>
<td>3</td>
</tr>
<tr>
<td>COUN 534</td>
<td>Tests and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>COUN 535</td>
<td>Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 536</td>
<td>Foundation of Professional Identity</td>
<td>3</td>
</tr>
<tr>
<td>COUN 541</td>
<td>Counseling Theories</td>
<td>3</td>
</tr>
<tr>
<td>COUN 631</td>
<td>Consultation and Program Development</td>
<td>3</td>
</tr>
<tr>
<td>COUN 632</td>
<td>Career and Lifestyle Development</td>
<td>3</td>
</tr>
<tr>
<td>COUN 633</td>
<td>Internship in Counseling</td>
<td>3*</td>
</tr>
<tr>
<td>COUN 634</td>
<td>Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 635</td>
<td>Advanced Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>COUN 636</td>
<td>Family Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 637</td>
<td>Practicum in Counseling I</td>
<td>3</td>
</tr>
<tr>
<td>COUN 639A</td>
<td>Practicum in Counseling II</td>
<td>3</td>
</tr>
<tr>
<td>COUN 639B</td>
<td>Practicum in Counseling II</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 631</td>
<td>Introduction to Graduate Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 48

*Note: Students who are unable to finish their Internship in 3 credit hours may need to enroll in additional hours for completion of this requirement.

The Credentialing Division of the Department of Regulation and Licensure, Nebraska Health and Human Services System, generally approves our counseling courses for professional counseling continuing education (CE) credit.
**The degree Master of Arts in Education.**

**HISTORY**

EDCI 631, Introduction to Graduate Study, should be completed within the first 12 hours of a student’s program of study.

**BASIC EDUCATION CORE:**
- EDCI 631 Introduction to Graduate Study ................................................................. 3
- EDCI 633 Educational Philosophy .................................................................................. 3
- PSYC 636 Advanced Educational Psychology .............................................................. 3

**REQUIRED:**
- HIST 635 Research Seminar in History ......................................................................... 3
- HIST 660 Thesis ............................................................................................................... 6

**ELECTIVES:**
Courses in History (including HIST 535, History of Historical Writing, unless taken at the undergraduate level) ........................................................................................................ 18

*Total* 36

**The degree Master of Arts in Education.**

**SCIENCE/MATHEMATICS**

EDCI 631, Introduction to Graduate Study, should be completed within the first 12 hours of a student’s program of study.

**BASIC EDUCATION CORE:**
- EDCI 631 Introduction to Graduate Study ................................................................... 3
  Plus six (6) hours from the Education and/or Counseling, Psychology, selected with the approval of the student’s committee ........................................................................................................ 6

**REQUIRED:**
Courses to be specified by the student’s committee.
No more than six (6) hours may be taken from Science 500-Science 600; Independent Study and Research ................................................................................................................................. 18

**ELECTIVES:**
Electives should be related to the student’s interests and needs and approved by the student’s committee .................................................................................................................. 9

*Total* 36

**MASTER OF BUSINESS ADMINISTRATION DEGREE**

Accredited by the Association of Collegiate Business Schools and Programs (ACBSP)

**VISION**

To be broadly recognized throughout the western high plains region as the MBA Program of choice.
MISSION

Deliver a program designed for supervisory and mid-level managers which develops practices consistent with the adaptability required for high performance management in the dynamic western high plains region. The program will be delivered in an innovative and flexible format emphasizing both an internal and external decision focus as well as an experiential learning component.

APPLICATION FOR ADMISSION TO THE MASTER OF BUSINESS ADMINISTRATION DEGREE

Individuals applying for admission into the M.B.A. program at CSC shall meet the following entrance requirements:

1. Application for admission to graduate study must be completed on forms available from the Graduate Office. Deadline for admission to the graduate study program is April 1 for the summer and fall terms, and October 1 for the spring term.

2. Applicants must possess an earned baccalaureate degree. Those having graduated from an unaccredited institution may be accepted conditionally, provided all other college and departmental requirements have been met. Full acceptance will not be granted until students have completed 12 hours of graduate coursework at Chadron State College and maintained a 3.0 graduate grade point average.

3. Applicants must have a 2.75 undergraduate GPA or above on a 4.0 scale or have completed 12 graduate hours at CSC with a GPA of 3.25 or higher.

4. Applicants must submit three satisfactory recommendations from individuals qualified to testify to the probable success of the applicant in the program. These recommendations are to be placed on the official “Recommendation Form” available from the Graduate Office.

5. Admission may be determined by one of two methods.
   A. The student must have accumulated 900 points or greater based upon the following formula: 200 times the undergraduate GPA (on a 4.00 system) plus the GMAT score.

   OR

   B. The student must receive a GMAT score of 400 or greater.

6. Applicants must meet the Common Professional Component (CPC) equivalencies in Accounting, Finance, Economics, Management, Marketing, Quantitative Techniques, and Computer literacy. Applicants will be required to make up any deficiencies in the above areas before full admission into the program will be granted. A minimum competency level of college algebra is recommended.

Applicants may meet the CPC through the following mediums of assessing competency:

A. Relevant leadership and/or work experience
B. Performance on other appropriate testing devices (such as CLEP, Course Challenge, Self Study or Correspondence, Portfolio) and/or MBA preparatory coursework as follows:
   Survey of Economics or (Macroeconomics and Microeconomics)
   Financial Accounting or (Accounting I and II)
   Statistics or Quantitative Methods
   Business Finance
   Decision Support Systems
   Principles of Marketing
   Principles of Management

Note: The MBA graduate student is to complete at least 15 semester hours of graduate coursework after being accepted for graduate study.
The degree **MASTER OF BUSINESS ADMINISTRATION**

REQUIRED COURSES:
- ACTG 532 Managerial Accounting .................. 3  
- ECON 537 Managerial Economics ...................... 3
- ECON 630 Modern Econ Theories & Applications .................. 3  
- FIN 631 Managerial Finance ........................... 3  
- MGMT 620 High Performance Leadership ............... 3  
- MGMT 630 Organizational Behavior ..................... 3
- MGMT 639 Legal & Social Environment of Bus ....... 3
- MIS 632 Information Systems for Managers ...... 3
- MKTG 630 Marketing Management .................... 3

9 Hours – Business/Professional Specific Courses (Courses to be identified and approved in conjunction with candidate’s graduate committee)

**OR**

6 Hours – BA 655 Scholarly Project or BA 660 Thesis and

3 Hours – MGMT 634 Business Strategy

**OR**

6 Hours – BA 690 Internship (Business/Professional Experience) and

3 Hours – MGMT 634 Business Strategy or Business/Professional Specific Courses  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>36</td>
</tr>
</tbody>
</table>

**MASTER OF EDUCATION**

The Master of Education degree is designed for individuals who hold teaching certificates at the baccalaureate level. Teaching certificates from the State of Nebraska are at one of the following levels: “Initial,” “Standard,” or “Professional.” Initial certificates are valid for five years. Standard certificates are renewable every seven years and Professional Certificates are renewable every ten years. “Professional certification” is not required for continued endorsement, as the “standard certificate” is renewable.

The following programs will normally entitle recipients to be certified at the “professional” level for positions in teaching. An undergraduate degree in teacher education is a prerequisite for entrance into these programs.

**APPLICATION FOR ADMISSION TO THE MASTER OF EDUCATION DEGREE**

Following are criteria for acceptance into Graduate Study in the M.Ed. program:

1. Application for admission to graduate study must be completed on forms available from the Graduate Office. Deadline for admission to the graduate study program is April 1 for the summer and fall terms, and October 1 for the spring term.

2. Students must possess an earned baccalaureate degree from a regionally accredited institution. General education at the baccalaureate level is a prerequisite for admission to all Master of Education degree programs at Chadron State College.

3. Students must submit to the Graduate Office an official transcript from each college or university previously attended. (In order to be considered an official transcript, it must be sent directly to Chadron State College from the college or university.) Transcripts from Chadron State College need not be submitted.

4. Students must submit three satisfactory recommendations completed by school administrators, college instructors, or other appropriate persons. These recommendations are to be placed on an official “Recommendation Form” available from the Graduate Office.

5. Applicants must have a 2.75 undergraduate GPA or above on a 4.0 scale.

6. Applicants must submit GRE Scores: Minimum satisfactory GRE scores have been set at the levels below:
   - Verbal = 350
   - Quantitative = 410
   - Analytical Writing = 3.0
Students performing unsatisfactorily on the GRE may be accepted by the Graduate Council on a conditional basis. Students accepted on a conditional basis will have terms of the condition stated in writing. These terms may include maintenance of a stated grade point average, additional coursework, or another method of remediation. Students may retake the GRE to improve their scores.

7. Experience requirements:
   - M.Ed.: School Administrators - 18-24 hours of professional education courses is a prerequisite for admission. The Certification Officer should be consulted to determine whether a satisfactory PPST score and courses in Special Education and Human Relations may be required.
   - M.Ed.: School Counseling - a teaching certificate is required for admission.

8. Students admitted to graduate study may be required to spend more than the minimum time to complete the work for the master’s degree. The Graduate Council may require students to make up any deficiency in preparation by completing specified courses without credit toward the desired degree.

Graduate Study, Graduate Status, and Applications for Oral Examination and Graduation are separate and independent levels in the degree program. Students must apply and be approved for each level.

**Note:** The graduate student must complete at least 24 semester hours of graduate coursework after being accepted for graduate study.

The Dean of Professional and Graduate Studies and the Graduate Council will examine documents submitted and make one of the following determinations.

**Acceptance:** The Graduate Dean approves the application and the student advances into Graduate Study. If the Dean and/or Council have areas of concern, those concerns will be stated. Additional coursework or other appropriate requirements may be required.

**Conditional Acceptance:** The Dean and/or Graduate Council recognize certain deficiencies and may require additional coursework, evaluative testing or other appropriate requirements. The student may then advance to Graduate Study on a conditional basis and progress is monitored.

**Non-Acceptance:** The Graduate Dean and/or Council do not approve the application at this time and the student does not advance into Graduate Study. Reasons for non-approval and possible avenues toward acceptance will be stated.

**The degree Master of Education,**

**ELEMENTARY CURRICULUM AND INSTRUCTION**

EDCI 631, Introduction to Graduate Study, should be completed within the first 12 hours of a student’s program of study.

**CORE COURSES:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 631</td>
<td>Introduction to Graduate Studies</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 633</td>
<td>Educational Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 635</td>
<td>Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 638</td>
<td>School Law</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 539</td>
<td>Advanced Methods of Performance Assessment</td>
<td>3</td>
</tr>
<tr>
<td>SPED 530</td>
<td>Characteristics of Mild/Moderate Disabilities</td>
<td>3</td>
</tr>
</tbody>
</table>

**REQUIRED ELEMENTARY PERFORMANCE COURSES:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>READ 531</td>
<td>Improvement of Instruction in Reading in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 632</td>
<td>Improvement of Instruction in Health/Science in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 634</td>
<td>Improvement of Instruction in Mathematics in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 636</td>
<td>Improvement of Instruction in Social Studies in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 637</td>
<td>Improvement of Language Arts in the Elementary School</td>
<td>3</td>
</tr>
</tbody>
</table>

**ELECTIVES:** (An elective, Scholarly Project, or Thesis) ...................................................................................................................

**Total** 36
The degree Master of Education,
SECONDARY CURRICULUM AND INSTRUCTION

EDCI 631, Introduction to Graduate Study, should be completed within the first 12 hours of a student’s program of study.

CORE COURSES:
EDCI 631 Introduction to Graduate Studies ................................................................. 3
EDCI 633 Educational Philosophy .................................................................................. 3
EDCI 635 Curriculum Development ............................................................................... 3
EDCI 638 School Law ..................................................................................................... 3
EDUC 539 Advanced Methods of Performance Assessment ........................................... 3
READ 532 Reading in the Content Fields ....................................................................... 3
SPED 530 Characteristics of Mild/Moderate Disabilities ............................................... 3

ELECTIVES:
Selected with the approval of the graduate advisor from the following areas of specialization ...................... 15
  Business Education  Mathematics
  Career and Technical Education  Physical Education
  Education  Reading
  Educational Technology  Social Science
  Industrial Technology  Science

Total 36

The degree Master of Education,
EDUCATION ADMINISTRATION: ELEMENTARY

EDCI 631, Introduction to Graduate Study, should be completed within the first 12 hours of a student’s program of study.

BASIC EDUCATION CORE:
EDCI 631 Introduction to Graduate Study ...................................................................... 3
EDCI 633 Educational Philosophy .................................................................................. 3

REQUIRED:
EDCI 635 Curriculum Development ............................................................................... 3
EDCI 638 School Law ..................................................................................................... 3
EDAD 632 Supervision of Instruction ............................................................................. 3
EDAD 635 Elementary School Administration ................................................................. 3
EDAD 636 Fundamentals of Educational Administration .................................................. 3
EDAD 638 Personnel Administration .............................................................................. 3
EDAD 639 Practicum/Internship in Educational Administration ..................................... 3

ELECTIVES:*
9 hours of electives must be selected with the approval of the graduate advisor and committee .................. 9
Total 36

*The program in Elementary Administration assumes the candidate has completed a program in elementary teaching. If not, the candidate will be required to complete an additional nine (9) hours of elementary improvement of instruction courses. Satisfactory scores on the PPST may not be required for admission to the program and Nebraska certification (for clarification please contact the Graduate or Certification office). Teaching experience is a prerequisite for certification.
The degree Master of Education,  
EDUCATION ADMINISTRATION: SECONDARY

EDCI 631, Introduction to Graduate Study, should be completed within the first 12 hours of a student’s program of study.

BASIC EDUCATION CORE:
EDCI 631 Introduction to Graduate Study ................................................................. 3
EDCI 633 Educational Philosophy ........................................................................... 3

REQUIRED:
EDCI 635 Curriculum Development ........................................................................ 3
EDCI 638 School Law ................................................................................................. 3
EDAD 632 Supervision of Instruction ....................................................................... 3
EDAD 633 Secondary School Administration ......................................................... 3
EDAD 636 Fundamentals of School Administration ............................................... 3
EDAD 638 Personnel Administration ..................................................................... 3
EDAD 639 Practicum/Internship in Educational Administration .......................... 3

ELECTIVES:*  
9 hours of electives must be selected with the approval of the graduate advisor and committee 9

Total 36

The program in Secondary Administration assumes the candidate has completed a program in secondary teaching. If not, the candidate will be required to complete nine hours of courses appropriate to a secondary teaching program. Satisfactory scores on the PPST may not be required for admission to the program and Nebraska certification (for clarification please contact the Graduate or Certification office). Teaching experience is a prerequisite for certification.

*If seeking Nebraska Administrative certification, and if the State SPED requirement has not yet been met, then one of the following State approved CSC courses must be completed: SPED 230 or SPED 532.

The degree Master of Education,  
SCHOOL COUNSELING

The School Counseling Program offers a Masters of Education degree. This degree program requires the successful completion of 39 credit hours of graduate education. EDCI 631, Introduction to Graduate Study, should be completed within the first 12 hours of a student’s program of study.

Objectives
The objectives of the School Counseling program are:
  a. to demonstrate knowledge about human growth and development; social and cultural foundations; helping relations; groups, career and life-style development; appraisal; research and program evaluation; and professionalism;
  b. to demonstrate entry-level clinical skills as a professional counselor;
  c. to demonstrate knowledge of the principles of the Code of Ethics of the American Counseling Association (ACA);
  d. to apply ACA’S ethical principles professionally;
  e. to fulfill the pre-graduation requirements of Title 92, Nebraska Department of Health Professional and Occupational Licenses Regulations, in the areas of course content and supervised field experience;
  f. to understand the needs of rural populations and to develop appropriate referral and networking skills;
  g. to demonstrate empathy and skill with counseling diverse cultural, social, and gender groups;
  h. to understand one’s personal and professional strengths and weaknesses and to maintain supervisory and peer consultation relationships;
i. to provide consultation services to one’s local, state and professional community; and
j. to understand research design sufficiently well to comprehend professional journal literature.

Program of Study

The School Counseling Program prepares students to work professionally as elementary or as secondary school counselors. Students seeking endorsement as school counselors in Nebraska must have at least two years of teaching experience and a valid teaching certificate.

A class in this Program, “Internship in Counseling” (COUN 633), requires affirmation by the graduate student under oath that he/she has no felony or misdemeanor convictions involving moral turpitude (Guide to Nebraska Teacher Education Institutions, Nebraska Department of Education, Code Section 004.01, subsection 004.11D). Furthermore, enrollment in COUN 633 requires a student’s affirmation under oath that he/she does not have any order or determination currently in effect by a court or any other government body of criminal charges because of insanity; or of incapacitation and in need of a guardian; or of an inability to manage his/her property due to mental illness, mental deficiency, chronic use of drugs or chronic intoxication; or because he/she is currently an in-patient or resident in a mental health facility due to a determination by a qualified mental health professional (Guide to Nebraska Teacher Education Institutions, Nebraska Department of Education, Code Section 004.01, subsection 1004.01L).

COURSES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 531</td>
<td>Counseling and Communication Skills</td>
<td>3</td>
</tr>
<tr>
<td>COUN 533</td>
<td>Ethical and Legal Issues</td>
<td>3</td>
</tr>
<tr>
<td>COUN 534</td>
<td>Tests and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>COUN 535</td>
<td>Multicultural Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 541</td>
<td>Counseling Theories</td>
<td>3</td>
</tr>
<tr>
<td>COUN 631</td>
<td>Consultation and Program Development</td>
<td>3</td>
</tr>
<tr>
<td>COUN 632</td>
<td>Career and Lifestyle Development</td>
<td>3</td>
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<tr>
<td>COUN 633</td>
<td>Internship in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 634</td>
<td>Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 635</td>
<td>School Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 637</td>
<td>Advanced Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>COUN639A</td>
<td>Practicum in Counseling I</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 631</td>
<td>Introduction to Graduate Studies</td>
<td>2</td>
</tr>
</tbody>
</table>

Total 39

For K-6 school counseling endorsement, students must take one 450-hour elementary school counseling internship. For 7-12 school counseling endorsement, students must complete one 450-hour secondary school counseling internship. Students seeking K-12 school counseling endorsement must complete one 900-hour internship. Regardless of the number of hours, students should register for COUN 633. Students may need to take additional credit hours for completion of this requirement.

NOTE: For School Counseling students who wish to obtain licensure as Licensed Professional Counselors from the State of Nebraska, the following courses are needed to complete the requirement: COUN 532, 536, 633, and 634. Contact a Counseling faculty member for additional information.

THE SPECIALIST IN EDUCATION DEGREE

All candidates entering a Specialist degree program must have completed or will complete the necessary prerequisite courses for the program. Credits to ameliorate deficiencies may apply toward elective program areas in some cases. A field practicum is required.

Programs of study at the Specialist degree level include preparation for the position of Superintendent of Schools. Each program pursued will require some specific coursework, although considerable flexibility will be allowed in planning programs to meet the individual needs of those enrolling in the Specialist degree program.

Satisfactory scores on the PPST may be required for Nebraska certification. To make this determination, please contact either the Graduate Office or the Nebraska Department of Education.
APPLICATION FOR ADMISSION TO THE SPECIALIST IN EDUCATION DEGREE PROGRAM

1. Complete an Application for Admission to Graduate Study. Applications are available from the Graduate Office. Deadline for admission to the graduate study is April 1 program for the summer and fall terms, and October 1 for the spring term.

2. Students must have earned a master’s degree from a regionally accredited college or university. A master’s level degree is a prerequisite to admission to the Specialist in Education degree program at Chadron State College.

3. Students must submit to the Graduate Office an official transcript from each college and/or university previously attended. (In order to be considered an official transcript, it must be sent directly to Chadron State College from the college or university.) Transcripts from Chadron State College need not be submitted.

4. Students must submit three satisfactory recommendations completed by school administrators, college instructors or other appropriate persons. These recommendations are to be placed on the official “Recommendation Form” available from the Graduate Office.

5. Students must submit a written statement from the candidate outlining her/his goals for seeking the superintendency.

6. Students must have had at least two or more years of successful teaching experience.

7. Students must show high scholastic potential including:
   a. A graduate grade point average of 3.4 or above on a 4.0 scale
      OR
   b. A graduate grade point average of not lower than 3.25 on an 4.0 scale and satisfactory performance scores on The GRE, as follows:
      (1) Verbal Portion (410 or greater)
      (2) Quantitative Portion (480 or greater)
      (3) Analytical Writing Portion (3.0 or greater)
     Students may retake the GRE to improve their scores.

8. Students may be accepted on a conditional basis. These students will have terms of the condition stated in writing. The terms may include maintenance of a stated grade point average, additional coursework or other methods of remediation.

9. Students admitted to the program may be required to spend more than the minimum time to complete the work for the Specialist degree. The Dean of Professional and Graduate Studies and/or Graduate Council may require students to make up any deficiencies in preparation by completing specified courses without credit toward the desired degree.

An initial review of the entire application packet is completed by the Dean of Graduate Studies. Graduate Study, Graduate Status, and Application for Oral Examination and Graduation are separate and independent levels in the degree program. Students must apply for and be approved for each level.

In exceptional circumstances entrance requirements may allow for alternatives to the established admission procedures to encourage participation of individuals from under-represented groups and other students as determined by Chadron State College.

The Dean of Professional and Graduate Studies and the Graduate Council will examine documents submitted, and one of the following determinations will be made:

   Acceptance: The Graduate Dean approves the application and the student is advanced into Graduate Study. If the Graduate Dean and/or Council has areas of concern they will be stated and may require additional coursework or other appropriate requirements.

   Conditional Acceptance: The Graduate Dean and/or Council recognizes certain deficiencies and may require additional coursework, evaluative testing, or other appropriate requirements. The student may then be advanced to Graduate Study on a conditional basis and progress is monitored.

   Non-Acceptance: The Graduate Dean and/or Council does not approve the application at this time and the student is not advanced into Graduate Study. Reasons for non-approval and possible avenues toward acceptance will be stated.
Admission to Graduate Status

After being accepted for graduate study and prior to the completion of 15 semester hours of graduate coursework, the prospective candidate for the Specialist degree should make application for admission to graduate status. At this time the student must:

1. Have earned at least a 3.25 grade point average on coursework completed;
2. Prepare and submit a “Plan of Graduate Study” to the Graduate Council for approval;
3. Receive a review of progress and preparation by his/her advisor.

The advisor is to inform the Graduate Office of any prerequisites and/or deficiencies the student may have. The advisor and other graduate faculty members in the area of a student’s concentration will outline with the student any deficiencies the student may have and a plan for remediation of these deficiencies prior to the granting of a degree.

Application for the Specialist Degree

The formal application for the degree should be filed with the Dean of Professional and Graduate Studies during the term prior to in which the student expects to graduate. Candidates who plan to complete requirements for graduation in December must file formal application prior to April 15. Those who plan to graduate in spring must file prior to November 15. Application forms are available in the Graduate Office.

At the time the application is submitted all indebtedness to the college and the graduation fee must be paid.

Conferring of the Specialist Degree

Specialist in Education degrees will be conferred upon successful candidates either at the spring or winter commencement.

Program Research Requirements

The successful candidate will complete either a Field Study or a Thesis.

Field Study

The Field Study must be written in connection with an area of training or specialization for which a student has had coursework and, when possible, experience. The student’s committee and Graduate Council must approve the topic selected. It must also have practical value to the student and should relate to some specific professional objective. If the study involves human or animal subjects, approval of the project must be granted by the Institutional Review Board prior to the commencement of the study.

Although it may be a study of a specific operation in a specific setting, the Field Study should involve the collection and analysis of data, documentation of supporting evidence, and drawing of sound conclusions. The study itself should be reported in a scholarly manner, with items of form and style determined by the nature of the study and approved by the student’s advisor.

Those choosing the Field Study option must register for a total of three semester hours of Field Study credit. Registration for all three hours or any portion thereof may be made at the beginning of any semester or summer term following approval of the Field Study topic. His/her committee, the Graduate Council and Institutional Review Board must approve the student’s topic before the investigation may begin.

The Field Study will be written under the direct supervision and guidance of the advisor. The student is ultimately responsible for the progress of the Field Study.

Upon final completion of the Field Study and its review by the advisor and the committee, an oral examination is scheduled. Copies of the Field Study must be presented to the committee members at least two weeks before the scheduled date of the oral examination. The oral examination will include questions regarding the Field Study, coursework, and other material relevant to the student’s field of study. The committee will sign approval forms after successful completion of the Field Study and oral examination. The oral examination must be taken at least two weeks prior to the date of graduation or granting of the degree. (The final date for oral examinations is posted each term in the Graduate Office.) Students completing the oral examination after the specified date will not be eligible for graduation until the next graduation or diploma granting date. See the next section for more details regarding the oral examination.

The student must submit four copies of the unbound document to the Graduate Office at least 15 class days before the close of the semester or summer term in which the student is certified for graduation.
Thesis

The thesis must convey conclusions on some subject directly related to the candidate’s area of specialization. Although the topic does not necessarily have to be original or to seek new answers, it should attempt to establish a point previously unsupported or to verify existing knowledge. The thesis topic should be so designed that the student receives training in the art and techniques of scientific inquiry, employing one or more of the commonly accepted tools of educational research.

Those choosing the thesis option must register for a total of six semester hours thesis credit. Registration for all six hours or any portion thereof may be made at the beginning of any semester or summer term following approval of the thesis topic. The candidate’s committee must approve the student’s topic before the investigation may begin.

The thesis will be written under the direct supervision and guidance of the advisor and in accordance with APA style. The student is ultimately responsible for the progress and completion of the thesis.

After acceptance of the thesis by the advisor and the committee, an oral examination will be scheduled. Copies of the thesis must be presented to the committee members at least two weeks before the scheduled date of the oral examination. The oral examination will include questions regarding the thesis, coursework, and other material relevant to the student’s field of study. The committee will sign approval forms after successful completion of the thesis and oral examination. The oral examination must be taken at least two weeks prior to the date of graduation or granting of the degree. (The final date for oral examinations is posted each term in the Graduate Office.) Students completing oral examinations after the specified date will not be eligible for graduation until the next graduation or diploma granting date. See the next section for more details regarding the oral examination.

The student must submit four copies of the unbound document to the Graduate Office at least 15 class days before the close of the semester or summer term in which the student is certified for graduation. Five copies of the thesis abstract, not to exceed 500 words and suitable for publication, must be presented to the Graduate Office within the same time limitation during the semester or term in which the student is planning to graduate.

Program Examination

Oral

Candidates for the Specialist degree are required to pass a final oral examination in their area of concentration. Students must have submitted the completed thesis or Field Study to the committee at least two weeks prior to the oral examination. The student’s graduate committee will conduct the oral examination. If a member of the committee is unavailable and rescheduling is inappropriate, a substitution may be appointed by the Dean of Professional and Graduate Studies. With the candidate’s knowledge, the examining committee may invite other individuals to be present at the oral examination.

The oral examination must be taken at least two weeks prior to the date of graduation or granting of the degree. The final date on which oral examinations may be taken is posted each term in the Graduate Office. Students completing the oral examination after the specified date will not be eligible for graduation until the next graduation or diploma granting date.

Prior to the oral examination, a personal data sheet is to be prepared by the student and distributed to all members of the examination committee. It should include such items of information as professional and educational background, courses completed, and anticipated educational and career goals.

Following successful completion of the oral examination, approval forms will be signed by the student’s committee and presented to the Dean of Professional and Graduate Studies.

Written

All candidates for the Specialist degree will be required to pass a comprehensive written examination. The written examination will be developed, administered, and evaluated by the Department of Education. The exam will be offered once during the fall semester and once during the spring semester.

Students must have the thesis or Field Study topic approved by the committee and department chair before taking the comprehensive written examination.
The degree of Specialist in Education,  
SUPERINTENDENT OF SCHOOLS

ADMINISTRATIVE CORE COURSES:
EDAD 730 Seminar in Educational Leadership ......................................................... 3  
EDAD 731 School Administrator and the Law ............................................................ 3  
EDAD 732 Field Study (3 credits)  
OR  
EDAD 762 Thesis (6 credits) ........................................................................ 3-6  
EDAD 763 Internship/Field Experience .................................................................. 3-6

REQUIRED:
EDAD 631 Public and Human Relations ..................................................................... 3  
EDAD 634 School Business Management & Finance ................................................ 3  
EDAD 637 School Plant Planning and Maintenance .................................................. 3

ELECTIVES:
9-12 hours selected in consultation with advisor and committee .................................. 9-12  
Total 33

Required amelioration of deficiencies at the Master’s level is not included in this total.

NON-DEGREE PROGRAM OFFERING  
ENDORSEMENT FOR READING SPECIALIST

Students planning to complete a reading specialist endorsement must complete the sequence outlined below. Technical advances in reading instruction are addressed in the Reading Endorsement where appropriate. In addition to the endorsement the student must have completed the following: (a) an endorsement in Elementary or Secondary Education, including child and/or adolescent psychology, (b) requirements for a valid Nebraska teaching certificate, and (c) successful teaching experience.

REQUIRED:
COUN 534 Tests and Measurements ......................................................................... 3  
COUN 637 Advanced Developmental Psychology ....................................................... 3  
ENG 538 Adolescent Literature .................................................................................. 3  
READ 530 Reading in the Middle and Secondary School .......................................... 3  
READ 531 Improvement of Instruction in Reading in the Elementary School .......... 3  
READ 635 Diagnosis and Correction ........................................................................ 3  
READ 636 Practicum in Reading ............................................................................... 3

Select three (3) hours to meet the supporting work requirements:
READ 533 Approaches & Techniques for Teaching Reading  
OR  
READ 535 Reading and the At-Risk Student ............................................................... 3

Select six (6) hours from the following electives:
EDCI 637 Improvement of Instruction in the Language Arts in Elementary Schools  
READ 532 Reading in the Content Field  
READ 634 Linguistic Foundations of Reading Instruction  
READ 638 Seminar in Reading Issues: Issues, Trends, and Programs  
SPED 533 Characteristics of Learning Disabilities ..................................................... 6  
Total 30
COURSE DESCRIPTIONS

Course descriptions are alphabetized by academic school, department, and discipline.

SCHOOL OF ARTS AND SCIENCES

Department of Language, Literature, and Communication Arts

Communication Arts

C A 500 Independent Study/Research Credit 1 - 3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and academic Dean required.

C A 520 Relational and Family Communication Credit 3 hours
Advanced interpersonal course designed to give students the opportunity to explore current interpersonal research in modern family relationship situations. In-depth exploration of intimate communication, parent-child communication, child-child communication, and extended family communication in the western tradition and interculturally.

C A 530 Communication Research Methods Credit 3 hours
A review of research methods used in the discipline of Communication wherein students can gain an understanding of and practice in research design. Students will be exposed to both quantitative and qualitative methodologies.

C A 535 Topics in Communications Credit 1 - 3 hours
Special topics in communications. May be repeated with change of emphasis.

C A 536 Seminar in Communication Credit 3 hours
Designed to meet the specific needs of a group of students. May be repeated with a different topic. Admission by permission of Communication Arts faculty.

C A 540 Gendered Communication Credit 3 hours
Explores gender as a communication variable in settings ranging from interpersonal relationships, organizational settings, to public or mass communication.

Humanities

HUM 500 Independent Study or Research Credit 1-3 hours
Study of research in area of special interest. Permission of instructor and academic Dean required.

HUM 532 World Mythology and Folklore Credit 3 hours
A survey of world myth and folklore as major sources of inspiration, allusion, and imagery in the expressive arts.

HUM 534 Exploration in the Humanities Credit 3 hours
Exploration of visual, performing, or language arts. Previous experience and background are desirable but not necessary. Field trips may be required.

Language and Literature

ENG 500 Independent Study or Research Credit 3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and academic Dean is required.

ENG 531 Topics in English Credit 3 hours
Special topics in English. May be repeated with a change of emphasis.
ENG 532 Shakespeare Credit 3 hours
Shakespeare’s works, with particular attention paid to those plays most commonly taught in the middle and senior high schools. Field trips may be required.

ENG 535 Native American Literature Credit 3 hours
A study of the history, themes, and/or genres of literature produced by and about Native Americans.

ENG 536 World Literature Credit 3 hours
A study of representative poetry, drama, and prose fiction selected from global literature. Field trips may be required. All texts not originally published in the English language will be read in English translation.

ENG 538 Adolescent Literature Credit 3 hours
A study of literature suitable for grades 7-12 that provides a critical background for interpreting, evaluating, and teaching that literature.

ENG 540 Theory and Practice of Literary Criticism Credit 3 hours
An overview of current theoretical trends, such as psychoanalysis, ethnicity and race studies, structuralism, poststructuralism, and Marxism, as they relate to the practice of various forms of literary criticism.

ENG 541 English and American Novels Credit 3 hours
A study of selected English and American novels.

ENG 600 Independent Study or Research Credit 3 hours
Study or research in an area of special interest. The number of credit hours determined by topic and amount of work required. Permission of instructor and academic Dean required.

ENG 631 Seminar in English Credit 3 hours
Study in any of the disciplines included under the language arts and designed to meet the specific needs of a group of students. Permission of instructor required.

Spanish

SPAN 500 Independent Study or Research Credit 1-3 hours
Conferences to be arranged. Open to students who wish to do advanced work in a special field of Spanish. Permission of Instructor and academic Dean is required.

SPAN 530 Advanced Topics in Spanish Credit 3 hours
An advanced study of different topics of special interest, taught in Spanish. Prerequisite: One 300 level Spanish course.

SPAN 538 Advanced Summer Program Abroad Credit 6 hours
Extensive exposure to Spanish language and to one of the countries where it is spoken. Stresses functional use of contemporary Spanish in conversation and composition. Course offered only in conjunction with four weeks residence in a Spanish speaking country.

DEPARTMENT OF MATHEMATICAL SCIENCES

Information Science and Technology

IST 500 Independent Study Credit 1-3 hours
Individual problems in a selected area of the general field of Information Science and Technology. Course can be repeated for additional credit (up to 6 credit hours total). Prerequisite: Permission of instructor and academic Dean required.
IST 530  Topics in Information Science and Technology  Credit 1-3 hours
Special topics in the general field of Information Science and Technology are studied in-depth. Course can be repeated for additional credit (up to 6 credit hours total). Prerequisites: IST 133 and appropriate background for topics covered.

IST 533  Internet Applications  Credit 3 hours
Overview of the World Wide Web including advanced internet programming concepts and applications; design and publication of team oriented web projects. Prerequisites: IST 230 or equivalent.

Mathematics

MATH 500  Independent Study or Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and academic Dean required.

MATH 530  Topics in Mathematics  Credit 1-3 hours
Topics to meet the needs of students who have completed the regular course of study. Can be repeated with different emphasis for a maximum of 6 hours credit.

MATH 533  Statistical Methods and Data Analysis  Credit 3 hours
Statistical research methods and modeling of statistical problems. Chi-square tests, analysis of variance, one-way and multi-factorial designs, multiple regression and correlation. Nonparametric methods. Use of calculators and personal-computer software. Prerequisite: MATH 232 or equivalent.

MATH 534  Introductory Analysis  Credit 3 hours
Structure of the real number line. Completeness, compactness, connectedness. Rigorous treatment of limits, sequences, series, convergence, functions and continuity, derivatives, and selected topics on measure and integration theory. Prerequisites: MATH 237 and 252, or permission of instructor.

MATH 535  Sampling Techniques  Credit 3 hours
Statistical survey methods, sampling techniques, point and interval estimation of population parameters, population size determination, and communication of sample survey results. Applications from business, the natural sciences, and the social sciences. Prerequisite: MATH 232 or equivalent.

MATH 537  Modern Algebra  Credit 3 hours
Axiomatic approach to groups, rings, integral domains, polynomials, fields, selected topics in abstract algebra, and an introduction to vector spaces and algebraic coding theory. Prerequisite: MATH 429 or equivalent.

MATH 538  Numerical Analysis  Credit 3 hours
Numerical modeling of phenomena using interpolation and approximation, systems of linear equations, integration, and numerical solutions of differential equations. Prerequisite: MATH 252 or permission of instructor.

MATH 540  Mathematics Education Standards  Credit 3 hours
An integrated content/pedagogy course on mathematics teaching, assessment, and curriculum standards, based on major content areas of the K-12 curriculum. Prerequisite: Fifty percent of endorsement completed.

MATH 630  Mathematics Topics for Teachers  Credit 1-3 hours
Mathematics topics of interest to classroom teachers at all grade levels. Credit variable with topic. Can be repeated with different emphasis for a maximum of 6 hours credit.

MATH 634  Mathematics Curriculum  Credit 3 hours
Mathematics curriculum in elementary and secondary schools, with emphasis on current trends and issues in mathematics education. Permission of instructor required.
MATH 655  Scholarly Project  Credit 3 hours
Scholarly project pertaining to a field of specialization. Designed in consultation with a student’s graduate committee and includes an extensive paper summarizing the project. Required for students selecting Plan II as listed in the Graduate Catalog.

MATH 660  Thesis Research  Credit 1-6 hours
Original investigations in mathematics leading to the master’s thesis. Must complete six hours. Proposal must be approved by the student’s committee and Dean of Professional and Graduate Studies prior to registration. Proposal must be approved by the student’s committee and Dean of Professional and Graduate Studies prior to registration.

DEPARTMENT OF PHYSICAL AND LIFE SCIENCES
Biology

BIOL 500  Independent Study or Research  Credit 1-3 hours
Designed to permit individual students to participate in a progressively more complex series of investigations and independent studies in biology at the graduate level. Permission of instructor and academic Dean required.

BIOL 501  Ornithology  Credit 2 hours
The biology of birds, including their classification, anatomy, physiology, life history, behavior, ecology, and identification with emphasis on local species. Must be taken concurrently with BIOL 501L.

BIOL 501L  Ornithology Laboratory  Credit 1 hour
Laboratory and field experience. Must be taken concurrently with BIOL 501.

BIOL 512  Biotechnology  Credit 3 hours
Hands-on procedures with lectures and readings to provide theoretical understanding and historical background of biotechnology work. Cross-listed as CHEM 512.

BIOL 525  Plant Morphology  Credit 2 hours
The origin and structure of plant cell types and tissues along with a survey of the plant world illustrated by specific examples from both living and fossil plants. Must be taken concurrently with BIOL 525L.

BIOL 525L  Plant Morphology Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 525.

BIOL 526  Wildlife Research and Management Techniques  Credit 3 hours
Field and laboratory techniques for studying, evaluating, and managing wildlife and their habitats are described and demonstrated. Field trips required. Cross-listed as AGRI 526.

BIOL 527  Biology of Populations  Credit 3 hours
Population ecology and the genetic processes of adaptation and evolution. Class consists of lectures and class discussion of current literature. Prerequisites: BIOL 332 and BIOL 336/336L or equivalent.

BIOL 529  Aquatic Microbiology  Credit 3 hours
The detection and study of bacteria in streams, lakes, wells, etc. and a basic review of water-borne viruses that are of public health significance. Oral and written presentations, laboratory and field trips required. Prerequisite: BIOL 341/341L or highly recommended consent of instructor.

BIOL 531  Entomology  Credit 2 hours
The taxonomy, morphology, physiology, life history, behavior, ecology, and economic importance of insects. Lecture, laboratory and field trips. Must be taken concurrently with BIOL 531L.

BIOL 531L  Entomology Laboratory  Credit 1 hour
Laboratory and field experience. Must be taken concurrently with BIOL 531.
BIOL 532  Developmental Biology  Credit 2 hours
The molecular and cellular aspects of development, including the regulation and expression of the genome during development, fertilization, cleavage, gastrulation, morphogenesis, and organogenesis. Must be taken concurrently with BIOL 532L.

BIOL 532L  Developmental Biology Laboratory  Credit 1 hour
The vertebrate embryology and morphological development. Must be taken concurrently with BIOL 532.

BIOL 533  Analysis of Human Movement  Credit 2 hours
The utilization of anatomy, physiology, biochemistry, and physics in the study of human movement, with emphasis on biomechanics, control and integration of muscle groups in maintaining posture and producing complicated movements, bioenergetics, adaptation of the body to stress and exercise, and training regimens. Must be taken concurrently with BIOL 533L.

BIOL 533L  Analysis of Human Movement Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 533.

BIOL 535  Mammalogy  Credit 2 hours
The systematics, life history, physiology, and behavior of mammals. Must be taken concurrently with BIOL 535L. Field trips required.

BIOL 535L  Mammalogy Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 535.

BIOL 536  Research Microscopy  Credit 3 hours
Microscopic principles and techniques and research methods. Students will plan and carry out a research project using light microscopy and present their findings in a public seminar.

BIOL 537  Wildlife Management Practicum  Credit 3 hours
A seminar style course that will bring together wildlife professionals, natural resource managers, livestock producers, environmentalists and others interested in wildlife management. Participants will describe, discuss, and debate existing programs and issues on private and public lands. Field trips required. Cross-listed as AGRI 537.

BIOL 538  Taxonomy of Plants  Credit 2 hours
The taxonomy of vascular plants with emphasis on the local flora, agriculturally important plants, and range plants. Field trips required. Must be taken concurrently with BIOL 538L.

BIOL 538L  Taxonomy of Plants Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 538.

BIOL 539  Plant Physiology  Credit 2 hours
The physiological and developmental processes occurring in cells, tissues, and organs of plants, with emphasis on hormonal, environmental and other control mechanisms of plant behavior and development. Must be taken concurrently with BIOL 539L. Prerequisite: Basic Plant Science course required; Chemistry recommended.

BIOL 539L  Plant Physiology Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 539.

BIOL 540  Topics in Human Biology  Credit 1-3 hours
Designed to meet the needs of different groups of people desiring study in gross and living anatomy, physiology, embryology, histology, and neurobiology. Study topics and credit will be arranged to meet the needs of the students. Can be repeated with a change in emphasis for a total of twelve hours of credit.
BIOL 543  Topics in Biology  Credit 1-3 hours
Designed to meet the needs of different groups of people desiring knowledge in an area of biology not covered in another biology course. Study topics and credit will be arranged to meet the needs of the students. Laboratory work, field work, and extra fees may be required. Can be repeated with a change in emphasis for a total of six hours of credit.

BIOL 544  Limnology  Credit 2 hours
Biological, chemical and physical studies of inland surface waters. Must be taken concurrently with BIOL 544L. Field trips required.

BIOL 544L  Limnology Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 544.

BIOL 546  Regional Flora  Credit 3 hours
The plants and plant communities of the region. Workshop format for majors and non-majors. Field trips required.

BIOL 548  Ethnobotany of the Northern Great Plains  Credit 3 hours
Plants useful or harmful to man, their origins and history, botanical relationships, chemical constituents which make them economically important, roles in prehistoric and modern cultures and civilizations, and the potential of the plant kingdom for new economically important species. Must be taken concurrently with BIOL 548L. Field trips required.

BIOL 548L  Ethnobotany of the Northern Great Plains Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 548.

BIOL 549  Molecular Biology of the Cell  Credit 3 hours
An in-depth analysis of eukaryotic cellular biology, including cell-cell communication, signal transduction, apoptosis, control of cell cycle, and other advanced topics (cancer, gene therapy, prokaryotic cells, viruses). Concurrent enrollment in BIOL 549L required.

BIOL 549L  Molecular Biology of the Cell Laboratory  Credit 2 hours
A project-based laboratory using a broad range of basic techniques. In addition to tools and approaches learned in BIOL/CHEM 512, students will learn cell culturing, and DNA, RNA and protein analysis. Concurrent enrollment in BIOL 549 required.

BIOL 550  Field Limnology  Credit 3 hours
Lecture and field methods for studying the biological, chemical, and physical processes in lakes and streams. Includes an extended field trip to Yellowstone National Park or other areas. Fees in addition to tuition will be charged. Early registration required. Prerequisite: one year of college-level science.

BIOL 556  Pathogenic Microbiology and Parasitology  Credit 2 hours
A study of the major communicable diseases of humans caused by bacteria, fungi, and viruses. Global and regional impact, host-parasite relationships, morphology and physiology, diagnostic techniques used in isolation and identification, treatment, prevention, and modes of transmission are discussed. Field trips required. Must be taken concurrently with BIOL 556L.

BIOL 556L  Pathogenic Microbiology and Parasitology Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with BIOL 556.

BIOL 560  Field Experience in Biology  Credit 1-6 hours
A one to five week course offered between fall and spring semesters, during spring break, or during the summer. One credit earned per week of full time study. Itinerary for each class will be announced several weeks prior to registration. Fees in addition to tuition will be charged. Early registration required.
BIOL 600  Independent Study or Research  Credit 1-3 hours
Designed to permit individual students to participate in a progressively more complex series of investigations and independent studies in biology at the graduate level. Permission of instructor and academic Dean required.

BIOL 620  Ethology  Credit 3 hours
A study of animal behavior, particularly under natural conditions. Consideration will be given to the three different experimental approaches to the study of animal behavior; comparative psychology, ethology, and sociobiology. Considerable time will be spent on making observations and analyzing the behaviors of selected invertebrate and vertebrate animals.

BIOL 630  Topics in Biology  Credit 1-3 hours
Designed to meet special needs of individual students or groups and offered when demand can be demonstrated.

BIOL 632  Topics in Advanced Human Biology  Credit 1-3 hours
Designed to meet the needs of different groups of people desiring advanced work in gross and living anatomy, physiology, embryology, histology, and neurobiology. Study topics and credit will be arranged to meet the needs of the students. Can be repeated for up to 6 hours.

BIOL 638  Systematics of Plants  Credit 3 hours
The principles of taxonomy and the identification and classification of plants. Considerable time will be spent on a survey on representative flowering plant families, hybridization, and evolution of plant groups. Prerequisite: BIOL 538/538L or equivalent recommended.

BIOL 655  Scholarly Project  Credit 1-3 hours
Scholarly project pertaining to a field of specialization. Designed in consultation with students’ graduate committee and includes an extensive paper summarizing the project. Required for students selecting Plan II as listed in the Graduate catalog. Must complete 3 hours.

BIOL 660  Thesis Research  Credit 1-6 hours
Original investigations in science leading to the master’s thesis. Must complete 6 hours. Proposal must be approved by the student’s committee and Dean of Professional and Graduate Studies prior to registration.

BIOL 690  Internship in Biology  Credit 1-3 hours
Provides practical experience as a biologist in government, business, or industry. Credits cannot be counted in the basic 36 hours for a Master’s degree. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

Chemistry

CHEM 500  Independent Study or Research  Credit 1-3 hours
Designed for the graduate student participating in investigations and/or independent studies in chemistry required at the graduate level. Permission of instructor and academic Dean required. May be repeated.

CHEM 501  Chemistry Research  Credit 1-3 hours
A laboratory research experience for chemistry students. Project responsibilities assigned and supervised by chemistry faculty.

CHEM 512  Biotechnology  Credit 3 hours
Hands-on procedures with discussions and readings to provide theoretical understanding and historical background of biotechnology work. Cross-listed as BIOL 412.

CHEM 517  Topics in Chemistry  Credit 1-3 hours
Designed to meet the needs of students in a special area of interest. May be repeated for up to 6 hours.
CHEM 519  Special Topics in Chemistry  
Offered to meet special needs of chemistry majors. May be repeated.

CHEM 530  Inorganic Chemistry  
Advanced principles of inorganic chemistry.

CHEM 533  Environmental Chemistry  
A detailed study of the chemical processes that influence the environment, including processes which affect the quality and use of land, water, and atmosphere. Focuses on topics of current concern. Concurrent enrollment in CHEM 533L required.

CHEM 533L  Environmental Chemistry Laboratory  
Laboratory experience. Concurrent enrollment in CHEM 533 required.

CHEM 535  Biochemistry  
Covers the components and reactions of living matter. Topics include metabolism of major macromolecules including carbohydrates, lipids, proteins, and nucleic acids. Enzyme function and regulation will be studied. Concurrent enrollment in BIOL 535L recommended.

CHEM 535L  Biochemistry Laboratory  
Accompanies Biochemistry. Concurrent enrollment in 535L required.

CHEM 544  Physical Chemistry  
Fundamental principles of thermodynamics, kinetics, and quantum mechanics as related to chemical concepts. Concurrent enrollment in CHEM 544L required.

CHEM 544L  Physical Chemistry Laboratory  
Laboratory experience. Concurrent enrollment in CHEM 544 required.

CHEM 564  Physical Chemistry II  
Fundamental principles of kinetics, and quantum mechanics as related to chemical concepts.

CHEM 600  Independent Study or Research  
Research investigations in chemistry. Permission of instructor and academic Dean required.

CHEM 640  Topics in Chemistry  
Selected chemistry topics. Course content will vary to meet the special needs of students. The course may involve classroom, and/or field oriented activity. Credit is dependent upon length of course and depth of study. May be repeated with different topics for up to six hours.

CHEM 655  Scholarly Project  
Scholarly project pertaining to a field of specialization. Designed in consultation with students’ graduate committee and includes an extensive paper summarizing the project. Required for students selecting Plan II. Must complete 3 hours.

CHEM 660  Thesis Research  
Original investigations in chemistry leading to the master’s thesis. Must complete six hours. Proposal must be approved by the student’s committee and Dean of Professional and Graduate Studies prior to registration.

Geoscience

GEOS 500  Independent Study or Research  
Designed for the graduate student seeking an individual problem in Geoscience. Permission of instructor and academic Dean required. May be repeated.
GEOS 530  Special Topics in Geoscience  Credit 1-3 hours
To meet special needs of Geoscience students. May be repeated with different topics and approval of instructor for a total of 6 credit hours.

GEOS 531  Geology of Water Resources  Credit 3 hours
An introduction to the origin and nature of groundwater, its interaction with surface water, geological methods of groundwater exploration, and factors affecting water supply and quality. One or more field trips required.

GEOS 532  Structural Geology  Credit 3 hours
Description and analysis of geologic structures and the regional and global tectonic forces that produce them. Possibly one or more field trips required.

GEOS 535  Field Experience in Geoscience  Credit 1-3 hours
Typically a one to three week workshop. Field excursions to study major geologic features and provinces in North America or elsewhere. Prerequisite: Approval of instructor.

GEOS 536  Field Excavation and Procedures  Credit 1-3 hours
A summer workshop designed to give the student field experience in the development of paleontological sites. Prerequisite: Approval of instructor.

GEOS 538  Petroleum Geology  Credit 3 hours
The origin, characteristics, occurrence, exploration, and development of/for petroleum. Possibly one or more field trips.

GEOS 539  Sedimentology and Stratigraphy  Credit 3 hours
The origin and characteristics of sedimentary rocks. Concurrent enrollment in GEOS 539L required.

GEOS 539L  Sedimentology and Stratigraphy Laboratory  Credit 1 hour
Laboratory and field studies of sediments and sedimentary rocks. Concurrent enrollment in GEOS 539 required.

GEOS 600  Independent Study or Research  Credit 1-3 hours
Research investigations in Geoscience. Permission of instructor and academic Dean required.

GEOS 630  Topics in Geoscience  Credit 3 hours
Selected Geoscience topics. Course content will vary to meet the special needs of students. The course may involve classroom and/or field oriented activity. Credit is dependent upon length of course and depth of study. May be repeated with different topics for up to six hours.

GEOS 655  Scholarly Project  Credit 3 hours
Scholarly project pertaining to a field of specialization. Designed in consultation with students’ graduate committee and includes an extensive paper summarizing the project. Required for students selecting Plan II.

GEOS 660  Thesis Research  Credit 1-6 hours
Original investigations in Geoscience leading to the master’s thesis. Must complete six hours. Proposal must be approved by the student’s committee and Dean of Professional and Graduate Studies prior to registration.

**Physics**

PHYS 500  Independent Study or Research  Credit 1-3 hours
Designed for the graduate student seeking an individual problem in science. Permission of instructor and academic Dean required. May be repeated.
PHYS 530  Topics in Physics  Credit 1-3 hours
A course on selected science topics. Course content will vary to meet the special needs of students. The course may involve classroom and/or field oriented activity. Credit is dependent upon length of course and depth of study. May be repeated with different topics.

PHYS 534  Mechanics  Credit 3 hours
Principles of Newtonian mechanics including Lagrangian and Hamiltonian formalism.

PHYS 536  Science Education  Credit 1-6 hours
Designed to meet the needs of teachers desiring science content and skills not covered in another course. Topics and credit arranged to meet the needs of participants. Can be repeated with a change in emphasis.

PHYS 544  Thermodynamics  Credit 3 hours
Principles of statistical physics and applications to the laws of thermodynamics.

PHYS 554  Electricity and Magnetism I  Credit 3 hours
Special methods in electromagnetic theory, static fields, introduction to Maxwell’s equations, and electric fields in the presence of matter.

PHYS 564  Quantum Mechanics I  Credit 3 hours
Current methods in quantum mechanics, wave nature of matter, symmetry laws, and development of state function.

PHYS 571d  Electricity and Magnetism II  Credit 3 hours
Dynamic fields, magnetic fields in the presence of matter, propagation of electromagnetic radiation, and advanced use of Maxwell’s equations. Prerequisite: PHYS 554.

PHYS 571e  Optics  Credit 1 hour
A study of optical phenomena including ray optics and wave optics.

PHYS 571g  Quantum Mechanics II  Credit 3 hours
Time development of wave functions, perturbation theory, spin functions, the hydrogen atom, and the WKB approximation. Prerequisite: PHYS 564.

PHYS 571h  Advanced Astronomy  Credit 1-3 hours
A quantitative study of topics introduced in PHYS 333. Includes astrophotography, deep sky viewing, planetarium.

PHYS 571j  Independent Study or Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and academic Dean required.

PHYS 571k  Advanced Physics Laboratory  Credit 1-3 hours
Experiments in optics, electronics, mechanics, and modern physics. Credit 1 or 2 hours each semester, with maximum of 4 hours total allowable.

PHYS 571m  Topics in Physics  Credit 1-3 hours
Designed to meet the needs of students in a special area of interest. May be repeated for up to six hours.

PHYS 600  Independent Study or Research  Credit 1-3 hours
Research investigations in physics. Permission of instructor and academic Dean required.
PHYS 630  Topics in Physics  Credit 1-3 hours
A course on selected physics topics. Course content will vary to meet the special needs of students. The course may involve classroom and/or field oriented activity. Credit is dependent upon length of course and depth of study. May be repeated with different topics for up to six hours.

PHYS 655  Scholarly Project  Credit 3 hours
Scholarly project pertaining to a field of specialization. Designed in consultation with students’ graduate committee and includes an extensive paper summarizing the project. Required for students selecting Plan II.

PHYS 660  Thesis Research  Credit 1-6 hours
Original investigations in physics leading to the master’s thesis. Must complete six hours. Proposal must be approved by the student’s committee and Dean of Professional and Graduate Studies prior to registration.

Department of Social Sciences and Justice Studies

Anthropology

ANTH 530  Topics in Anthropology  Credit 1-3 hours
Special topical studies that may include: art and religion, Native American culture, impact of technology on culture, agricultural systems, cultures of the Middle East, exploration and cultures, linguistics, and nomadism. Student may enroll in the course for a maximum 9 hours credit. Field research is possible.

ANTH 535  Northern Plains Indian Cultures  Credit 3 hours
Survey of Northern Plains Indian cultures with a focus upon aspects of cultures from both a historical and contemporary perspective, but with emphasis being placed on the contemporary cultures. The impact of modern technology and Euro-American contact on Northern Plains Indians will also be examined as well as the continuing functions of traditional Native beliefs in contemporary social, economic, political, and religious contexts.

ANTH 655  Scholarly Project  Credit 1-3 hours
Project pertaining to a field of specialization. Designed in consultation with student’s graduate committee. Includes paper summarizing the project. Required for students completing Plan II. Must complete three hours.

Criminal Justices

CJ 500  Independent Study or Research  Credit 1-3 hours
Faculty-guided research in an area of mutual interest to the student and instructor. Students are responsible for selecting the area of inquiry prior to contacting the instructor. Prerequisite: 15 hours of Criminal Justice and permission of instructor and academic Dean required.

CJ 536  Seminar: Comparative CJ  Credit 3-6 hours
Focuses on the major criminal justice systems of the world, with special emphasis on Western Europe, the international Criminal Justice system, and terrorism. Field trip may be required.

CJ 655  Scholarly Project  Credit 1-3 hours
Projects pertaining to a field of specialization. Designed in consultation with student’s graduate committee. Includes paper summarizing the project. Required for students completing Plan II. Must complete three hours.

Geography

GEOG 500  Independent Study/Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and academic Dean required.

GEOG 530  Topics in Geography  Credit 1-3 hours
Special topics in geography. May be repeated with a change of emphasis.
GEOG 538  Seminar in Cultural Geography  Credit 1-3 hours
Examines various aspects of human cultural behavior and environmental space and helps students develop their awareness of the extent to which their feelings, behavior, and thoughts are influenced by their physical surroundings. Topics include environmental attitudes, environmental cognition, mental maps, personal space, territoriality, crowding, and psychological landscapes. Field research will be an important part of this course. Prerequisite: GEOG 232 or consent of Instructor.

GEOG 566  Field Experience in Geography  Credit 1-3 hours
Field observations concerning the cultural landscape. Noted especially are the spatial phenomena of landforms, soils, natural vegetation, and how different cultures change and adapt to these various natural environments. The study of the cultural landscapes involve the synthesis of cultural activity including: land use, urban and rural settlements, economic, political, and social activities. May require a tour.

GEOG 655  Scholarly Project  Credit 1-3 hours
Project pertaining to a field of specialization. Designed in consultation with student’s graduate committee. Includes paper summarizing the project. Required for students completing Plan II. Must complete three hours.

History

HIST 500  Independent Study  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and academic Dean required.

HIST 530  History of the American Indian  Credit 3 hours
A survey of Indian-white relations from American pre-history to the present. The course will emphasize the contributions made by American Indians to the general historical development of the United States.

HIST 531  Europe: Waterloo to World War I  Credit 3 hours
European history in the 19th century, emphasizing the rise of nationalism and industrialism and the resultant changes in European society.

HIST 532  Europe Since 1914  Credit 3 hours
The end of the old order in Europe, the age of conflict and ideology, and the rise of mass movements from World War I to the present.

HIST 535  History of Historical Writing  Credit 3 hours
Methods of historical research, writing, and criticism, with emphasis on bibliography and historical interpretation.

HIST 536  America in the Twentieth Century  Credit 3 hours
A study of the growth of the United States during the last century with an emphasis on the evolution of political institutions, the United States as a world power, civil rights issues, and the main intellectual and cultural currents in this century of rapid change.

HIST 537  Issues in European History  Credit 3 hours
Selected topics of investigation in European history. May be repeated with different emphasis.

HIST 541  Issues, Topics, and Workshops in History  Credit 1-3 hours
Selected topics or issues appropriate for study in a traditional classroom setting, seminar, or workshop format. Current topics include, but are not limited to: Women’s History, Mari Sandoz Workshop, History of Sports in the United States, and Topics in United States Military History. May be taken more than once with different content with the permission of the instructor and academic Dean.
HIST 542  Europe in the Middle Ages  Credit 3 hours
The history and culture of Western Europe from the late Roman Era to the crises of the late Middle Ages including the transition from ancient to medieval civilization, Latin Christianity, the Carolinian Era, the papacy, feudal and manorial society, and the early emergence of the nation-state.

HIST 543  The Era of World War II  Credit 3 hours
A study of the era of World War II as the pivotal and defining era of United States history in the Twentieth Century.

HIST 544  History of the American Colonies and the American Revolution  Credit 3 hours
A study of the rich variety of themes in Early America from Indian cultures to the appearance and development of European colonies in America and the evolution of these colonies through the period of the American West of Independence.

HIST 545  The United States: The Early Republic  Credit 3 hours
A study of the issues and themes in the history of the United States from the nation’s founding to the era of sectionalism that led to the Civil War.

HIST 546  The American West, 1500-1890  Credit 3 hours
A study of the American West to 1890, emphasizing the region as a contested meeting ground for various people. Significant Western themes, including expansion, violence, and the role of the federal government will be examined.

HIST 547  The American West, 1890 to Present  Credit 3 hours
A study of the American West from 1890 to the present, emphasizing the contributions of Native Americans, Anglos, Hispanics, African Americans, and Asian Americans to the region’s rich history. Prominent themes, including aridity, “the mythic West,” and conflict with the federal government, will be investigated.

HIST 548  Sectionalism, Civil War and Reconstruction  Credit 3 hours
Traces the history of sectionalism in the United States from the Missouri Compromise through the Civil War, closing with the end of military reconstruction in 1877.

HIST 635  Research Seminar in History  Credit 3 hours
Research and writing on a major topic required.

HIST 655  Scholarly Project  Credit 1-3 hours
Project pertaining to a field of specialization. Designed in consultation with student’s graduate committee. Includes paper summarizing the project. Required for students completing Plan II. Must complete three hours.

HIST 660  Thesis  Credit 1-6 hours
An extensive research and writing experience which serves as the capstone course for the Master of Science in Education degree with emphasis in History. Must complete 6 hours. Proposal must be approved by student’s committee and Dean of Professional and Graduate Studies prior to registration.

Political Science

PS 520  American Political Thought  Credit 3 hours
The main lines of American political thought and ideology will be examined. The Founding era, especially the debates between the Federalists and the Antifederalists, will be emphasized, as well developments in the post-WWII era.

PS 521  Contemporary Political Ideologies  Credit 3 hours
The most important contemporary political ideologies will be examined, with an emphasis upon those most prevalent in the United States. Some of the central ideologies discussed will include social conservatism, libertarianism, and populism.
**PS 530**  **Topics in Political Science**  
Credit 3 hours  
Special topics in Political Science. May be repeated with a change of emphasis.

**PS 531**  **History of Political Thought**  
Credit 3 hours  
Various themes in political philosophy will be covered, such as political obligation, rights, freedom and justice. Major philosophers covered will include Plato, Locke, and Rousseau.

**PS 532**  **The Legislative Process**  
Credit 3 hours  
The analysis of the legislative process in Congress and American state legislatures. Emphasis on statute-law making, oversight of the executive and representative function of the legislature, concurrent with an examination of decision-making and legislative norms and roles.

**PS 655**  **Scholarly Project**  
Credit 1-3 hours  
Project pertaining to a field of specialization. Designed in consultation with the student’s graduate committee. Includes paper summarizing the project. Required for students completing Plan II. Must complete three hours.

### Social Science

**SS 500**  **Independent Study/Research**  
Credit 1-3 hours  
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and academic Dean required.

**SS 530**  **Topics in Social Science**  
Credit 1-3 hours  
Special topics in Social Science. May be repeated with a change of emphasis.

**SS 536**  **Seminar in Social Science**  
Credit 1-6 hours  
Offered in any of the Social Science disciplines. Designed to meet the specific needs of a group of students, analogous to the way in which Independent Study or Research is designed to meet the needs of a specific student. Permission of the instructor required.

**SS 600**  **Independent Study or Research**  
Credit 1-3 hours  
Advanced directed readings in selected problems to meet the special needs of the graduate student.

**SS 655**  **Scholarly Project**  
Credit 1-3 hours  
Project pertaining to a field of specialization. Designed in consultation with student’s graduate committee. Includes paper summarizing the project. Required for students completing Plan II. Must complete three hours.

### Sociology

**SOC 500**  **Independent Study/Research**  
Credit 1-3 hours  
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and academic Dean required.

**SOC 530**  **Topics in Sociology**  
Credit 3 hours  
Special topics in Sociology. May be repeated with a change of emphasis.

**SOC 535**  **Advanced Social Psychology**  
Credit 3 hours  
A study of four perspectives in Social Psychology: two primarily psychological, Gestalt and Freudian, and two primarily sociological, Exchange and Symbolic Interaction. The course includes student reading and interpretation of primary and secondary sources in these four areas.

**SOC 655**  **Scholarly Project**  
Credit 1-3 hours  
Project pertaining to a field of specialization. Designed in consultation with student’s graduate committee. Includes paper summarizing the project. Required for students completing Plan II. Must complete three hours.
Department of Visual and Performing Arts

Art

ART 500 Independent Study Credit 1-3 hours
Open to students who wish to research some aspect of art or art education through directed readings and independent investigation. Discussion with the department and written evidence of the ability to do independent research required. May be repeated with a different topic. Permission of instructor and academic Dean required.

ART 510 Seminar in Art Credit 1-3 hours
Designed to meet the special needs of a group of students, analogous to the way in which Independent Study or Research is designed. May be repeated with a different topic. Prerequisite: permission of Art faculty.

ART 530 Graduate Art Studio Credit 3 hours
Open to students who wish to do further exploration in the media of their choosing. Students must submit a written proposal outlining the project to be pursued and the media to be employed. May be repeated in a different medium. Prerequisite: permission of Art faculty.

ART 541 Topics in Art History Credit 3 hours
Graduate level study of art history topics and problems. May be repeated with a different topic.

ART 655 Scholarly Project Credit 3 hours
Project pertaining to a field of specialization. Designed in consultation with student’s graduate committee. Includes paper summarizing the project. Required for students completing Plan II.

Music

MUS 513 Performance Ensemble Credit 1 hour
Offers graduate credit to participation in music ensembles.

MUS 515 Private Instruction Credit 1 hour
Individual instruction in piano, voice, percussion, brass instruments, woodwind instruments, and stringed instruments.

MUS 530 Topics in Music Credit 1-3 hours
Examines a special topic in music. Topics vary from semester to semester. May be repeated.

MUS 600 Independent Study or Research Credit 1-3 hours
Individual study in a selected area of music.

MUS 615 Private Instruction Credit 1 hour
Individual instruction in piano, organ, voice, percussion, brass instruments, woodwind instruments, and stringed instruments. Must have at least two hours of MUS 515.

MUS 655 Scholarly Project Credit 1-3 hours
Project pertaining to a field of specialization. Designed in consultation with student’s graduate committee. Includes paper summarizing the project. Required for students completing Plan II. Must complete 3 hours.

Theatre

TH 500 Independent Study or Research Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor, and academic Dean required.
School of Professional and Graduate Studies

Department of Applied Sciences

Agriculture

AGRI 500  Independent Study or Research  Credit 1-3 hours
For student seeking an individual problem in agriculture. Permission from instructor and academic Dean required.

AGRI 520  Range Short Course  Credit 2 hours
Intensive summer workshop covering all contemporary areas of range management. Additional fees will be assessed.

AGRI 526  Wildlife Research and Management Techniques  Credit 3 hours
Field and laboratory techniques for studying, evaluating, and managing wildlife and their habitats are described and demonstrated. Field trips required. Cross-listed as BIOL 426.

AGRI 535  Wildlife Management Practicum  Credit 3 hours
A seminar style course that will bring together wildlife professionals, natural resource managers, livestock producers, environmentalists and others interested in wildlife management. Participants will describe, discuss, and debate existing programs and issues on private and public lands. Field trips required. Cross-listed as BIOL 535.

AGRI 545  Mammology  Credit 2 hours
The systematic, life history, physiology, and behavior of mammals. Must be taken concurrently with AGRI 545L. Field trips required. Cross-listed as BIOL 535.

AGRI 545L  Mammology Laboratory  Credit 1 hour
Laboratory experience. Must be taken concurrently with AGRI 545. Cross-listed as BIOL 535L.

AGRI 560  Topics in Agriculture  Credit 1-3 hours
Meets the needs of changing conditions in Agriculture. Topics may change from semester to semester. This course may be repeated for up to 6 hours of credit.

Career and Technical Education

CTE 500  Independent Study or Research  Credit 1-3 hours
The problem selected and the amount of work in its solution determine the number of hours credit. May be repeated for up to six hours credit. Permission of instructor and academic Dean required.

CTE 531  Introduction to Special Needs Programs in Career and Technical Education  Credit 3 hours
Designed to help high school career and technical education teachers and special education teachers determine the work based and school based needs of learners identified as special populations. The course includes transition to work curriculum and program plans.

CTE 532  Programming for Special Need Populations within Career and Technical Education  Credit 3 hours
Students will develop curriculum guidelines for the particular field of specialization within the recommendations of the Special Vocational Needs Office, State Department of Education to develop an appropriate high school terminal program for the disadvantaged and handicapped permitting a high school diploma.

CTE 533  Occupational Guidance for Learners with Special Needs  Credit 3 hours
Designed to assist the special career and technical needs teacher in developing through work-study programs and through high school formal instruction practical procedures for effective occupational guidance of the special vocational needs student.
CTE 534 Principles & Philosophy of Career and Technical Education  Credit 3 hours
The principles, philosophy, and history of career and technical education are presented in this course.

CTE 538 Coordination in Occupational Training Program  Credit 3 hours
Foundation and scope of current and projected career and technical cooperative education programs and general studies work experience. Emphasis on coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of cooperative occupational education.

CTE 540 Topics in Career and Technical Education  Credit 1-6 hours
Contemporary topics within career and technical education.

CTE 600 Independent Study or Research  Credit 1-3 hours
Research or study in the area of career and technical education will be conducted either on or off campus. Reading of literature in this area or creative projects culminating in the writing of special papers and reports will be required.

CTE 632 Evaluation and Administration  Credit 3 hours
Various aspects and tasks unique to career and technical administration and supervision. Special emphasis is placed on program accountability and assessment.

CTE 633 Legislation and Budgeting in Career and Technical Education  Credit 3 hours
Indepth look at career and technical legislation and its implications for financial support and budgeting for career and technical programs and schools.

CTE 655 Scholarly Project  Credit 1-3 hours
Project pertaining to a field of specialization. Designed in consultation with student’s graduate committee. Includes paper summarizing the project. Required for students completing Plan II. Must complete 3 hours.

CTE 660 Thesis  Credit 1-6 hours
Original research as prescribed under Plan I of the Master’s Degree Program. Must complete 6 hours. Proposal must be approved by the student’s committee and Dean of Professional and Graduate Studies prior to registration.

CTE 690 Internship  Credit 1-3 hours
Provides practical work experience in an agency related to career and technology education. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

**Family and Consumer Sciences**

FCS 500 Independent Study or Research  Credit 1-3 hours
Selected problems of interest to advanced students. Permission of the instructor and academic Dean required.

FCS 532 Trends in Family and Consumer Sciences  Credit 3 hours
The course will focus on updating students in one of the following areas of Family and Consumer Sciences: a) consumer and home management, b) housing and home furnishings, c) textiles and clothing, d) nutrition and foods, e) child development, or f) family issues and relations.

FCS 537 Family Strengths  Credit 3 hours
Advanced study in the dynamics of successful family relationships. Investigation into the attributes of vital families which contribute toward the resolution of stressors in meaningful and positive ways. Lecture, discussion, and case study.

FCS 540 Special Topics in Family and Consumer Sciences  Credit 1-3 hours
Contemporary concepts and issues in Family and Consumer Sciences. May be repeated with different emphases for up to six hours of credit.
FCS 690  Internship  Credit 1-3 hours
Provides practical experience in an agency related to Family and Consumer Sciences. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

Industrial Technology Education

ITE 500  Independent Study or Research  Credit 1-3 hours
Research in industrial technology. The problem selected and the amount of work in its solution determine the number of hours of credit. May be repeated up to 6 hours. Permission of instructor and academic Dean required.

ITE 532  Quality Assurance/Quality Control  Credit 3 hours
Quality Assurance in terms of its relationship to design, testing, manufacturing, and applications. Procedures and methods for quality control systems for manufacturing industries. Prerequisite: ITE 232 or ITE 233 or equivalent.

ITE 534  Automated Manufacturing  Credit 3 hours
Concepts in computer integrated manufacturing. Experiences in communication of data via networks to CNC machines and robots will provide a foundation by applying those concepts to actual industrial situations.

ITE 540  Topics in ITE  Credit 1-3 hours
Study of contemporary areas of ITE.

ITE 600  Independent Study or Research  Credit 1-3 hours
Research or study in the area of Industrial Education will be conducted either on or off campus. The reading of literature in this area or projects culminating in the writing of special papers and reports will be required. Permission of instructor and academic Dean required.

ITE 631  Recent Trends in Industrial Technology  Credit 3 hours
To acquaint teachers of industrial technology with an overview of the recent trends, new developments, the current problems involved in the organizing, administering, and teaching of industrial technology. Each student will be required to make a written report on some problem or phase of work considered in this class.

ITE 655  Scholarly Project  Credit 1-3 hours
Project pertaining to a field of specialization. Designed in consultation with student’s graduate committee. Includes paper summarizing the project. Required for students completing Plan II. Must complete 3 hours.

ITE 690  Internship in Industrial Technology  Credit 1-3 hours
Provides practical work experience in an agency related to industrial technology. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

Department of Business and Economics

Accounting

ACTG 531  Financial Accounting  Credit 3 hours
Conceptual and technical material designed to enable students to read, analyze, and interpret financial information on financial statements.

ACTG 532  Managerial Accounting  Credit 3 hours
An introduction to the fundamentals of management accounting with an emphasis on the use of accounting information in cost accumulation, decision making, and planning and control. Prerequisites: ACTG 531 or equivalent.
ACTG 560  Topics in Accounting  Credit 3 hours
Selected topics on specialized areas and/or contemporary issues in accounting.

Business Administration

B A 500  Independent Study or Research  Credit 1-3 hours
Research in an area of special interest or need. The topic and the amount of work required are determined by the number of credit hours. Permission of instructor, department chair, and dean are required prior to registration.

B A 560  Topics in Business  Credit 1-6 hours
Seminar on contemporary areas of business and management.

B A 600  Independent Study or Research  Credit 1-3 hours
Research in an area of special interest or need. The topic and the amount of work required are determined by the number of credit hours. Permission of instructor, department chair, and dean required prior to registration.

B A 655  Scholarly Project  Credit 1-6 hours
Project pertaining to a field of specialization. Designed in consultation with student’s graduate committee. Includes paper summarizing the project. Proposal must be approved by the student’s committee and Dean of Professional and Graduate Studies prior to registration.

B A 660  Thesis  Credit 1-6 hours
Original research as prescribed under Plan I of the General Requirements for the Master’s Degree in the Graduate Bulletin. Must complete 6 hours. Proposal must be approved by the student’s committee and Dean of Professional and Graduate Studies prior to registration.

BA 690  Internship in Business/Professional Experience  Credit 1-6 hours
Provides practical work experience in business. Interested students should contact the Internship & Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

Economics

ECON 530  Community Economic Development  Credit 3 hours
An economic analysis of the structure, problems and nature of communities, and revitalization. The dimensions and causes of poverty and alternatives for development will be discussed. Some current economic development programs will be examined. Prerequisites: Department’s Mathematics Requirement; BA 336; and ECON 232, or equivalencies.

ECON 537  Managerial Economics  Credit 3 hours
Analysis of the economic decisions made by firm managers, estimation of demand, government agencies, and other organizations. The course focuses on the practical application of economic principles to economic problems of managers. Prerequisites: Department’s Mathematics Requirement; BA 241, 336; and ECON 130 or equivalents.

ECON 560  Topics in Economics  Credit 3 hours
Topics or seminars will be selected as needed to keep students abreast of contemporary and economic areas.

ECON 630  Modern Economic Theories and Applications  Credit 3 hours
Focus on modern economic theories with applications to market types, conducts, management goals, analysis and evaluations as affected by policies within dynamic arenas of domestic and global markets.

Finance

FIN 631  Managerial Finance  Credit 3 hours
Covers advanced financial principles, focusing on the application and case studies of financial theory to business and corporate problems and solving problems. Prerequisite: FIN 330 or equivalent.
Management

MGMT 620  High Performance Leadership  Credit 3 hours
Review current theory and practice of leadership with emphasis on developing skills relevant to prospective and practicing mid-level managers. Topical subjects may include participative leadership, delegation, empowerment; current leadership theories and practice; change leadership; leadership for group decision-making; team building leadership; leadership for quality performance; developing leadership skills; and building effective relationships. Leadership experiential exercise and/or experience will be integrated with contextual material as relevant and practical. Prerequisite: MGMT 230 or equivalent.

MGMT 630  Organizational Behavior  Credit 3 hours
The determinants and organizational consequences of both individual and group behavior within formal organizations, with emphasis on theories, concepts, and empirical findings from the behavioral sciences that will help managers to understand, predict, and influence the behavior of members of an organization. Prerequisite: MGMT 230 or equivalent.

MGMT 634  Business Strategy  Credit 3 hours
A variety of decision methods or techniques applicable to corporate level strategic decisions are developed. In-depth case analysis for a wide variety of businesses and industries. Readings in business strategy. Prerequisite: CPC courses or equivalent.

MGMT 639  Legal and Social Environment of Business  Credit 3 hours
Examines the legal and social environments as they developed up to present situations, emphasizing current trends.

Management Information Systems

MIS 632  Information Systems for Managers  Credit 3 hours
Overview of Information Systems. Stresses role of the manager and the strategic use of technology in business.

Marketing

MKTG 630  Marketing Management  Credit 3 hours
Management of the marketing process to include planning, pricing, promotion, and distribution of ideas, products, and services to give the organization a competitive edge. Prerequisite: MKTG 231 or equivalent.

Department of Counseling, Psychology and Social Work

Counseling

COUN 501  Topics in Counseling  Credit 1-3 hours
To meet the individual needs of students, it may become necessary to offer seminars or special topics that are not within the range of counseling courses described in this Bulletin. Prerequisites: Permission of the instructor and Academic Dean required.

COUN 520  Psychopharmacology  Credit 3 hours
Drug effects, understanding, tolerance, and classification of drugs will be covered. Prerequisite: PSYC 233 or permission of the instructor.

COUN 523  Pathology, Diagnoses, and the DSM  Credit 3 hours
Major mental and behavioral disorders are studied within the framework of the Diagnostic and Statistical Manual of Mental Disorders. Prerequisite: PSYC 433.

COUN 531  Counseling and Communication Skills  Credit 3 hours
Introduction to counseling and interviewing skills.
COUN 532  Treatment Issues in Addictions  Credit 3 hours
  Alcohol/drug abuse from the perspective of dual diagnoses, adult children of alcoholics, user denial, treatment modes, and the implications of working with ethnic and cultural minorities.

COUN 533  Ethical and Legal Issues in Counseling and Psychotherapy  Credit 3 hours
  Surveys the ethical, legal, and professional issues facing the counseling professional. Topics on professional conduct, decision-making, and the legal requirements for licensure will be studied.

COUN 534  Tests and Measurements  Credit 3 hours
  Introduction to the uses of psychological and educational tests, including methods of test construction, test reliability and validity application, interpretation, evaluation and an evaluative survey of common tests in areas of general classification. Prerequisite: An introduction to statistics course.

COUN 535  Multicultural Counseling  Credit 3 hours
  Individual differences, cultural characteristics, culture-appropriate and culturally sensitive intervention imperative for those preparing to enter the counseling profession.

COUN 536  Foundations of Professional Identity  Credit 3 hours
  Introductory to counseling or human services career. Topics will include but not be limited to professional identity, history of counseling, self exploration, career options in human services, directions of field of study in counseling and psychology and characteristics of counselors.

COUN 538  Behavioral Statistics and Research  Credit 3 hours
  Introduction to research design and statistical topics that apply to the counseling profession. Primary topic will be statistical methods used in counseling research and how to apply them to research design.

COUN 541  Counseling Theories  Credit 3 hours
  Review of the major theoretical constructs in counseling and psychotherapy with incorporation of multicultural relevance in the treatment of each theory.

COUN 600  Independent Research or Study  Credit 1-3 hours
  Guided independent research or study in the area of counseling. The number of credit hours varies in accordance with the topic and the amount of work required. Prerequisite: Permission of the instructor and the Academic is required.

COUN 631  Consultation and Program Development  Credit 3 hours
  Development of skills and knowledge necessary to design and organize a program of counseling, consultation, or career planning.

COUN 632  Career and Lifestyle Development  Credit 3 hours
  Leading theories of occupational choice and the process of career decision-making. Applications of theory will be discussed.

COUN 633  Internship in Counseling  Credit 1-6 hours
  Professional fieldwork experience in counseling to refine and enhance the basic counseling or student developmental skills and integrate professional knowledge and skills appropriate to the student's specialization. This will be done in accordance with the Nebraska state law requirements for licensure and/or certification of the student's specialization. Prerequisites: Successful completion of COUN 639A for School Counseling majors and COUN 639A and COUN 639B for Community Counseling majors.

COUN 634  Group Counseling  Credit 3 hours
  The theories, research, and application of group counseling will be offered in this course. Applying techniques for group process will be done through a group setting.
COUN 635  School Counseling  Credit 3 hours
Introduces topics to prepare potential school counselors to function effectively at the elementary or secondary level. Topics include but are not limited to school law, program development and evaluation, consultation, appraisal, ethics, and use of the American School Counseling National Comprehensive Model as applied to school counseling.

COUN 636  Family Counseling  Credit 3 hours
Examines the dynamics of family counseling and family systems. Satisfactory completion of this course gives students a fundamental understanding of family systems theory and other leading theories of family counseling and their application in the counseling process.

COUN 637  Advanced Developmental Psychology  Credit 3 hours
Case studies interwoven with empirical findings, theory, research methodology, explanations of technical concepts, and practical issues to clarify how biological, perceptual, cognitive, social, and emotional development either lead to or avert psychopathology.

COUN 639A  Practicum in Counseling I  Credit 3 hours
Provides students with opportunities to work with clients in on-going counseling situations under the direct supervision of a qualified faculty member. Students will see individual clients in counseling clinic setting and will accumulate a minimum of 20 hours of direct client contact. Prerequisites: Successful completion of COUN 533, COUN 541, PSYC 531, admission into one of CSC’s counseling programs, and permission of the instructor.

COUN 639B  Practicum in Counseling II  Credit 3 hours
Advanced practicum for students in the Community Counseling program or others who desire to develop clinical skills before their internship. Students will see individual clients in counseling clinic setting and will accumulate a minimum of 20 hours of direct client contact. Prerequisites: Successful completion of COUN 639A.

COUN 655  Scholarly Project  Credit 1-3 hours
The student engages in a major project related to his/her area of specialization. The design of the paper and the project is in cooperation with the student’s graduate committee. Prerequisite: Permission of the advisor. Must complete three hours.

COUN 660  Thesis  Credit 6 hours
The student designs and implements an extensive research project. The research and the paper are designed in cooperation with the student’s graduate committee. Prerequisites: Permission of the Dean of Professional and Graduate Study and the advisor.

Department of Education

Education

EDUC 500  Independent Study or Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and Academic Dean is required.

EDUC 531  Planning Technical Support for Educational Environments  Credit 3 hours
Explores planning technical support for teaching and learning environments through committees and planning documents; hardware and software systems in relation to supporting instructional and administrative activities; and training and support needed to use these technologies.

EDUC 532  Computer Managed Instruction  Credit 3 hours
Explores instructor use of hardware/software systems for producing word processing, data management, authoring systems for web pages, presentation software, teacher utilities, digital cameras, digital scanners, and other tools that are valuable in the production of instructional materials.
EDUC 533  The Middle School  Credit 3 hours
Philosophy, implementation, and improvement of the middle school from a theoretical and practical basis. Emphasis is placed upon the development, behavior, and special problems of middle school students; overall school program; methods of instruction; and the evaluation process. Observation is required in local middle school environments.

EDUC 534  Technology in Instructional Design  Credit 3 hours
Focuses on concepts and tools for applying systems theory to K-12 instructional design. Concepts include needs, instructional, learner, and context analysis; objective, assessment, strategy development, and evaluation. Course also applicable to business, industry, government, health care, and not-for-profit organizations.

EDUC 535  Computer Assisted Instruction  Credit 3 hours
Applies pedagogically sound instructional design and current pedagogical practices for developing K-12 online course materials and teaching methodologies that create an effective learning environment.

EDUC 536  Problem Solving with Technology  Credit 3 hours
Stresses video, hypermedia, the Internet, and other technologies as learning tools. Utilizes several specific media tools for problem solving, engaging students in personally and socially constructed meaning, community building, and developing interactive information literacy.

EDUC 538  Contemporary Teaching Practices  Credit 3 hours
Examines contemporary teaching practices including but not limited to: constructivist methods, information processing methods, looping, multi-age teaching, and matching instruction to performance standards. Teaching with technology will be a strong emphasis. Instruction suited to the Internet and distance learning systems will be practiced.

EDUC 539  Advanced Methods of Performance Assessment  Credit 3 hours
Builds on fundamental assessment knowledge and skills with emphasis on developing advanced competencies, particularly in the areas of performance-based assessment, assessment in standards-based environments, and applying current philosophies and practices to classroom teaching.

EDUC 540  Topics in Educational Technology  Credit 1-3 hours
Designed to allow students to study some aspect of educational technology not offered as a regular class. May be repeated with a change of emphasis for a maximum of 6 hours credit. Graduate students must check with their advisor to determine if the course is acceptable for their Plan of Study.

EDUC 580  Field Experience  Credit 1-8 hours
Assists the non-certified teacher and the teacher seeking an additional endorsement or renewal of an expired certificate through a planned and supervised field experience. The total number of field experience hours will be determined by a transcript review. Prerequisites for the course include successful completion of Teacher Education requirements as outlined in the General Bulletin. Requires affirmation under oath that the student has no felony convictions or misdemeanor convictions involving abuse, neglect, or sexual misconduct.

Educational Administration

EDAD 600  Independent Study or Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and academic Dean required.

EDAD 631  Public and Human Relations  Credit 3 hours
Designed to provide the educational administrator effective skills focused on meeting the Nebraska state legislation on required human relations course for certification along with a focus on public relations. The course includes an analysis of principles, practices, and materials that facilitate the adjustment and interpretation of schools to their internal and external publics, process to organize, administer, and evaluate the public and human relations program along with a school district’s development of a public relations plan.
EDAD 632 Supervision of Instruction  Credit 3 hours
Reviews current philosophy and practices in supervision at both the elementary and the secondary school levels. Emphasis will be placed upon a developmental model of improvement of instruction and the domains of the principalship. A course designed for prospective mentors, principals, supervisors, and school superintendents.

EDAD 633 Secondary School Administration  Credit 3 hours
Examines the role of the secondary school principal as building manager, instructional leader, creator for a learning environment, and decision maker. Focus on scheduling, co-curriculum activities, cultivating and maintaining collegial relationships, developing a school district vision, public and human relations, supervision of instruction, auxiliary services, working with community, and the school improvement process. Prerequisite: EDAD 636.

EDAD 634 School Business Management and Finance  Credit 3 hours
Study the functions of business management for schools including, budgetary considerations, auditing and reporting, management of funds, purchasing procedures and inventory, insurance, auxiliary services, a background of school finance, various levels of governmental financing of public schools, judicial decisions and their effects, bond issues, school finance forms, and finance of schools in the future.

EDAD 635 Elementary School Administration  Credit 3 hours
Examines the role of the elementary principal as building manager, instructional leader, and creator of a learning environment and decision maker. Focus of cultivating and maintaining collegial relationships, developing a school district vision, public and human relations, supervision of instruction, auxiliary services, working with community, and the school improvement process. Prerequisite: EDAD 636.

EDAD 636 Fundamentals of School Administration  Credit 3 hours
A study concerning the organization and control of American schools. Discussion will include federal and court mandates; state and local control; teacher, parent, and special interest groups; and college and/or university influences.

EDAD 637 School Plant Planning and Maintenance  Credit 3 hours
Principles and processes of developing functional educational facilities. Procedures and techniques for each phase of facility planning are included. Topics include: survey of needs, the Master Plan, site selection, the Educational and equipment selection along with a proactive maintenance plan and operations.

EDAD 638 Personnel Administration  Credit 3 hours
Theories, principles, and practices of school personnel administration with the focus including that of various personnel administration tasks including selection, in-service, performance evaluation, and professional negotiations.

EDAD 639 Practicum/Internship in Educational Administration  Credit 3 hours
Provides practical learning experiences inherent to the elementary and secondary school principalships. Seminar sessions will include discussion of current research and practices based on building principals’ needs and concerns. Separate and appropriate experiences will be designed wherever possible for students preparing in each of the areas—elementary and secondary administration. Required: at least 150 hours in a practicum setting at two school sites. Prerequisite: EDAD 636 and should be taken as close to the end of the program as possible.

EDAD 639B Advanced Practicum/Internship  Credit 3-6 hours
Provides for additional hours of experience under the direction of a practicing principal at either the secondary or elementary level or both. Additional hours may be necessary for certification in other states. The experience will be guided by the student’s chairperson and an administrator in the field. Prerequisites: EDCI 638, EDAD 635 or EDAD 633, EDAD 632, EDAD 636, and EDAD 638.

EDAD 640 Special Topics for Administrators  Credit 1-3 hours
Enables prospective administrators to become aware of recent trends and issues in school management, finance, and other concerns affecting the administration of public schools.
EDAD 655  Scholarly Project  Credit 1-3 hours
Provide a scholarly project for students choosing Plan II for Graduate Study. This project will utilize research skills. Must complete 3 hours.

EDAD 660  Thesis  Credit 1-6 hours
An extensive research study conducted under the guidance of the student’s advisor. Required of those candidates for the Master’s degree who elect Plan I and recommended for all who plan to do further advanced work in education. Must complete 6 hours. Proposal must be approved by the student’s committee and Dean of Professional and Graduate Studies prior to registration.

EDAD 730  Seminar in Educational Leadership  Credit 3 hours
Provides learning experiences inherent to leadership and management roles in education. Responsibilities, problems, challenges, and trends which face administrators will be covered in a seminar approach. Individual and appropriate experiences will be designed whenever possible for students preparing for different roles in educational leadership. This course will be taken in conjunction with EDAD 763. Prerequisites: EDAD 631, EDAD 634, and EDAD 637.

EDAD 731  The School Administrator and the Law  Credit 3 hours
Designed to provide the educational administrator with a view of the law governing the operation of schools in Nebraska, Wyoming, and South Dakota. An emphasis will be placed on preventative law through building an understanding of legal issues facing the school administration and avoiding possible litigation. Issues will include school district organization, meeting of the board of education, personnel administration, conducting hearings, developing board of education policies, students’ rights, discrimination, religious issues, and other current legal issues.

EDAD 732  Field Study  Credit 3 hours
Conducted in an area of specialization in which a student has had course work and, when possible, experience. The topic selected should be one of highly practical value to the student and should relate to specific professional objective. The topic of Field Study must be approved by the committee before the study is undertaken.

EDAD 762  Thesis  Credit 1-6 hours
Conveys conclusions on some subject directly related to the candidate’s area of specialization. It should attempt to establish a point previously unsupported or verify existing knowledge, employing one or more of the commonly accepted tools of educational research. The thesis topic must be approved by the candidate’s committee before he/she commences the investigation. Must complete 6 hours.

EDAD 763  Internship/Field Experience  Credit 3-6 hours
Prospective educational administrators will gain an understanding of school management through an internship in the field. Consideration will be given to antecedents of change, change models, the roles of different levels of government, forces that restrict or stimulate management, tools to implement instructional programs, and evaluation. The experience will be guided by the student’s chairperson and an administrator in the field.

Educational Curriculum and Instruction

EDCI 536  Seminar/Topics in Education  Credit 1-3 hours
Investigation of special topics in education. Attempts will be made to meet the individual needs of those registering in the program.

EDCI 600  Independent Study or Research  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and academic Dean required.

EDCI 631  Introduction to Graduate Study  Credit 3 hours
Develop competencies in producing and utilizing research to improve professional practice. Quantitative and qualitative methods will be presented. Quantitative methods will be the primary emphasis including basic statistical methods. Students will produce a research plan and literature review.
EDCI 632 Improvement of Instruction in Health and Science in Elementary Schools Credit 3 hours
Emphasis on curriculum and methodology in effective science and health education classes. Investigation of the aims of the science programs, acquaintance with the materials, techniques of instruction, and experiences that may help children gain the skills, understanding, and attitudes desirable in this subject area. Prerequisite: Student teaching or other teaching experience.

EDCI 633 Educational Philosophy Credit 3 hours
Philosophical beliefs underlying the democratic school system, its objectives, and the means of obtaining them is reviewed. It provides a basis for a philosophy of life and of education in a democratic society.

EDCI 634 Improvement of Instruction in Mathematics in Elementary Schools Credit 3 hours
Study methods and the value of teaching mathematics in the elementary school curriculum. Improved instructional materials are considered. Special consideration is given to exceptional children. Trends as noted in the professional literature are reviewed. Prerequisite: Student teaching or other teaching experience.

EDCI 635 Curriculum Development Credit 3 hours
K-12 school curriculum including pupil needs in everyday life situations, the curriculum writing process including standards based on research, objectives/skills, assessments, and evaluation along with an appraisal of new curriculum practices. Emphasis placed on the process of staff-developed curriculum.

EDCI 636 Improvement of Instruction in the Social Studies in Elementary Schools Credit 3 hours
The objectives of social education, organization of content, the unit activity approach, and a critical analysis of ways of improving instruction in the classroom are explored. Various types of teaching aids will be considered. Prerequisite: Student teaching or other teaching experience.

EDCI 637 Improvement of Instruction in the Language Arts in Elementary Schools Credit 3 hours
Principles and techniques of effective instruction in the areas of handwriting, spelling, oral and written language, and reading. Prerequisite: Student teaching or other teaching experience.

EDCI 638 School Law Credit 3 hours
Evaluation and current status of the law pertaining to the teacher in the classroom. Specific school situations will be analyzed as to applicable Nebraska, Wyoming, and South Dakota statutory and constitutional provisions and the rationale for the judicial interpretations of legal mandates.

EDCI 639 Systemic Change: Process for School Improvement Credit 3 hours
Seminar designed to follow and apply research focusing on systemic change. Student concerns and interests are part of this class.

EDCI 655 Scholarly Project Credit 1-3 hours
Scholarly project pertaining to a field of specialization. Designed in consultation with the student’s graduate committee and includes an extensive paper summarizing and related to the project. Required for students selecting Plan II. Must complete 3 hours.

EDCI 660 Thesis Credit 1-6 hours
The completion of a research project of considerable scope. The report of a study conducted under the guidance of the student’s advisor. Required of those candidates for the master’s degree who elect Plan I and recommended for all who plan to do further advanced work in education. Must complete 6 hours. Proposal must be approved by the student’s committee and Dean of Education and Graduate Studies prior to registration.
Reading

READ 500  Special Topics in Reading  Credit 1-3 hours
Recent trends and issues in the field of reading.

READ 530  Reading in the Middle and Secondary Schools  Credit 3 hours
The nature of reading, pertinent research in the field, reading as applicable to the middle and secondary reading curriculum, management of the middle and secondary reading programs, application of reading skills to the various subject areas, the selection of effective materials of teaching methods and techniques, and the use of various types of tests. Prerequisites: student teaching or teaching experience.

READ 531  Improvement of Instruction in Reading in the Elementary School  Credit 3 hours
The nature of reading, the pertinent research in the field, the curriculum in reading from the preparatory period through the intermediate grades, the management of the reading program, emphasis on specific reading skills taught in the elementary grades, the selection of effective materials, of teaching methods and techniques, and the use of various types of tests.

READ 532  Reading in the Content Fields  Credit 3 hours
Assists teachers in the content areas to teach subject matter in such a way as to utilize and further develop fundamental reading. Special consideration will be given to effective reading skills, vocabulary development in specific subject areas, and study skills.

READ 533  Approaches and Techniques for Teaching Reading  Credit 3 hours
Reading programs in which specific criteria for evaluating reading programs are examined and applied to determine the effectiveness and suitability for meeting the needs of those requiring instruction in reading.

READ 535  Reading and the At-Risk Student  Credit 3 hours
Effective models of reading programs serving at-risk students, explores innovative and imaginative approaches for teaching reading to at-risk students, and builds teachers’ confidence in their ability to provide appropriate programs for at-risk students.

READ 600  Independent Study  Credit 1-3 hours
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and Academic Dean required.

READ 634  Linguistic Foundations of Reading Instruction  Credit 3 hours
Phonic structure of the English language, vocabulary development, sentence, and intonation patterns. Emphasis is placed on developing teacher competence in understanding linguistic foundations of reading instruction.

READ 635  Diagnosis and Correction  Credit 3 hours
Causes of reading disabilities, and demonstrates the ability to use diagnostic instruments, interview procedures, methods, and materials of remediation. Prerequisites: READ 530 or 531 or consent of instructor.

READ 636  Practicum in Reading  Credit 3 hours
Supervised practicum with children and youth in developmental and remedial reading instruction, includes the diagnosing and treatment of reading disabilities under supervision. Prerequisite: READ 635 or consent of instructor.

READ 638  Seminar in Reading: Issues, Trends and Programs  Credit 3 hours
Trends, issues and programs are analyzed through historical and current research in reading. Topics will vary according to the interests and needs of the students.
## Special Education

**SPED 500  Independent Study or Research**  
Credit 1-3 hours  
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and academic Dean required.

**SPED 516  Clinical Experience in Appraisal of Exceptional Children**  
Credit 1 hour  
Class and field experiences to observe clinicians using assessment instruments and equipment with students in screening and assessment of academic achievement, development, assistive technology, and rehabilitation. Pre- or co-requisite: SPED 435.

**SPED 530  Characteristics of Behavioral and Emotional Disabilities**  
Credit 3 hours  
Social, behavioral, and emotional disabilities of learners. Identification of characteristics will be examined as well as all aspects of the total environment of these learners.

**SPED 532  Survey of Special Education**  
Credit 3 hours  
Overview of special education, laws, and services related to general education. Characteristics of students with disabilities, gifted, and talented students at risk, and students who are culturally and linguistically different. Current, future, and critical issues in the field of special education.

**SPED 533  Characteristics of Learning Disabilities**  
Credit 3 hours  
Social, emotional, physical, and cognitive characteristics of learning disabilities, identification, diagnosis, learning characteristics, and behavioral problems presented by learners with learning disabilities in the general education classroom.

**SPED 535  Assessing Individuals with Mild/Moderate Disabilities**  
Credit 3 hours  
Assessment procedures and practices used to obtain information about the learning and development of students with mild/moderate needs, including administering, interpreting, and reporting test results and formulating instructional objectives and subsequent learning programs. Understanding how information obtained from quantitative/qualitative measures and teachers’ experiences influence their abilities to interpret strengths and needs, formulate instructional objectives, develop curriculum, and select appropriate teaching strategies.

**SPED 536  Methods and Materials for Mild/Moderate Disabilities**  
Credit 3 hours  
Methods and materials used for teaching learners with mild/moderate disabilities are presented, and evaluated in terms of practical application. Prerequisite: Permission of instructor.

**SPED 537  Seminar in Special Education**  
Credit 1-3 hours  
A forum for special topics in special education and related fields is provided. The topic/topics will be announced in the title of the course as it is offered.

**SPED 538  Consultation/Collaboration**  
Credit 3 hours  
Consulting and collaborating skills for special educators working with parents and other professionals involved with children with disabilities. Emphasis is given to formal and informal meetings and conferences in planning, developing, and implementing special education programs, along with adaptations, special equipment, accommodations, or collaborative teaching with other professional and paraeducators.

**SPED 600  Independent Study or Research**  
Credit 1-3 hours  
Study or research in an area of special interest. The number of credit hours is determined by the topic and the amount of work required. Permission of instructor and Academic Dean required.
# Department of Health, Physical Education, and Recreation

**HPER 500 Independent Study or Research**  
Credit 1-3 hours  
Supervised solutions to selected problems to meet the special needs of the graduate student. The student’s efforts will culminate in a scholarly report on the solution of the problems. Permission of instructor and Academic Dean required.

**HPER 522 Introduction to Adapted Physical Education**  
Credit 3 hours  
An overview of Adapted Physical Education. Designed to introduce students to the requirements of special needs in Physical Education as required in IDEA Amendments of 1997. Emphasis on all types of movement experiences for special populations.

**HPER 530 Seminar in HPER**  
Credit 1-3 hours  
Investigation of special topics in health, physical education, or recreation through group study. Attempts will be made to meet the needs of groups of students. The seminar may be repeated.

**HPER 531 Organization and Development of Comprehensive School Health Programs**  
Credit 3 hours  
A course for teachers and school administrators who desire an understanding of the development and methods of a comprehensive school health education program.

**HPER 532 Tests and Measurements in Physical Education**  
Credit 3 hours  
The history of measurements in physical education, the selection and administration of appropriate test, and the integration of their results by statistical procedures.

**HPER 533 Physical Education in the Elementary School**  
Credit 3 hours  
An investigation of research and current practices in Elementary Physical Education.

**HPER 535 Curriculum Planning in Physical Education**  
Credit 3 hours  
History and trends in Physical Education. Principles and procedures for curriculum construction and criteria for selection of activities and judging outcomes. Students will develop a K-12 Physical Education Curriculum.

**HPER 537 Sport Law**  
Credit 3 hours  
Study of the law and implications relative to physical education and sport. Emphasis on safety procedures, preventive measures and legal responsibilities of the coach/administrator.

**HPER 539 Biomechanics of Sports**  
Credit 2 hours  
Improve ability to teach physical education and to coach athletic teams by learning to analyze a variety of sports activities in terms of fundamental principles of mechanics. Must be taken concurrently with HPER 539L. Prerequisite: HPER 122, 124, 232, and 232L or permission of Department Chair.

**HPER 539L Biomechanics of Sports Lab**  
Credit 1 hour  
Lab experience in Biomechanics of Sports. Must be taken concurrently with HPER 539.

**HPER 590 Internship in Health, Physical Education, Recreation**  
Credit 1-12 hours  
Provides practical experience in physical education, recreation, coaching or athletic training. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours. Prerequisites: Identification of required internships and prerequisites for each as follows:

- a. Recreation: HPER 226, 234, and 333
- b. Coaching: HPER 220, 335, and appropriate techniques courses (Note: Education students should not do their coaching internship while on Block or student teaching.)
- c. Athletic Training: 226
HPER 600 Independent Study or Research  Credit 1-3 hours
Research or study in the area of health, physical education, and recreation will be conducted either on or off campus. The reading of literature in this area or carrying projects culminating in the writing of special papers and reports will be required. Permission of instructor and Academic Dean required.

HPER 626 Advanced Motor Skill Learning  Credit 3 hours
An advanced course designed for the exploration of materials, methods, and mechanisms that underlie the learning and performance of motor skills.

HPER 631 Topics in HPER  Credit 3 hours
This course is designed to give the master physical educator and awareness of recent trends and issues in the school setting and to discuss other contemporary concerns affecting the master physical educator.

HPER 632 Current Studies in Administration of Physical Education  Credit 3 hours
Research and research techniques in the field of administration of physical education.

HPER 634 Measurement of Human Performance  Credit 3 hours
A review of various instruments used to measure human performance. The study related to these instruments includes but is not limited to the use, construction, presentation, and statistical analysis required for interpretation.

HPER 638 Problems in Interschool Athletics  Credit 3 hours
Examination and the discussion of problems which are encountered and related to the administration of an interscholastic athletic program. Current problems concerning athletics on a national, state, and local level.

HPER 639 Advanced Methods of Sports Training  Credit 3 hours
A study of advanced methods used in sports training for special populations. These population include but are not limited to differences in training youth, aged, hypobaric, hyperbaric, gender, heat, cold, athletes and the general population.

HPER 655 Scholarly Project  Credit 1-3 hours
Scholarly project pertaining to a field of specialization. Designed in consultation with students’ graduate committee and includes an extensive paper summarizing and related to the project. Required for students selecting Plan II. Must complete 3 hours.

HPER 660 Thesis  Credit 1-6 hours
The completion of a research project of considerable scope. The report of a study conducted under the guidance of the student’s advisor. Required of those candidates for the master’s degree who elect Plan I and recommended for all who plan to do further advanced work in education. Must complete 6 hours. Proposal must be approved by the student’s committee and Dean of Professional and Graduate Studies prior to registration.
ADMINISTRATION
AND FACULTY

ADMINISTRATION

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1. West Court (CSC Apartments)
2. Memorial Hall
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4. Mari Sandoz Heritage Center
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6. Nelson Physical Activity Center
7. Administration Building
8. Brooks Hall (residence)
9. Crites Hall-Admissions
10. Sparks Hall (CSC Apartments)
11. Miller Hall
12. Elliott Field
13. Reta King Library
14. Kline Center
15. Armstrong Gymnasium
16. Kent Hall (residence)
17. High Rise Hall (residence)
18. Andrews Hall (residence)
19. Math and Science Building
20. National Guard Armory
21. Burkhiser Technology Complex
22. Student Center
23. Edna Work Wing (residence)