

Chadron State College

General Bulletin 2005 - 2007



GENERAL BULLETIN CATALOG ISSUE

CHADRON STATE COLLEGE CHADRON, NEBRASKA

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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DIRECTORY

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

COLLEGE CALENDAR

(Chadron State College reserves the right to make necessary changes in the calendar.)

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 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 Sciences 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 *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 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.
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.)

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.

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 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.

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. 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 class.

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.

REGULATIONS GOVERNING GRADUATION

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:

ENG	135	Composition I, 3 hrs.	HONS	100/200/300	Honors Seminar, 3 hrs.
ENG	136	Composition II, 3 hrs.	HONS	401	Senior Thesis and Colloquium, 3 hrs.
ENG	137	Technical Writing I, 3 hrs.	LMS	132	Introduction to Libraries & Research, 3 hrs.
ENG	240	Adv Grammar and Comp, 3 hrs.			

Communication - 3 Hours, selected from:

B A	331	Business Communications, 3 hrs.	C A	230	Conflict Resolution and Mediation, 3 hrs.
C A	125	Fundamentals of Oral Comm, 3 hrs.	C A	233	Multimedia & Presentation Speaking, 3 hrs.
C A	225	Interper & Sm Group Comm, 3 hrs.	HONS	401	Senior Thesis and Colloquium, 3 hrs.

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:

HONS	101	Human Nature, 3 hrs.	PHIL	231	Introduction to Philosophy, 3 hrs.
HUM	231	Patterns in the Humanities, 3 hrs.			

Fine Arts - 3 Hours, selected from:

ART	239	Elements of Art, 3 hrs.	ENG	233	Elements of Literature, 3 hrs.
MUS	235	Elements of Music, 3 hrs.	TH	235	Elements of Theatre, 3 hrs.

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:

HONS	201	Human Society, 3 hrs.	P S	341	Comparative Politics, 3 hrs.
P S	231	American National Government, 3 hrs.			

History - 6 Hours, selected from:

HIST	231	U.S. History to 1877, 3 hrs.	HIST	234	Western Civilization II, 3 hrs.
HIST	232	U.S. History Since 1877, 3 hrs.	HONS	201	Human Society, 3 hrs.
HIST	233	Western Civilization I, 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:

HPER 100, 101, 102, 103, 104, 110, 111, 112, 117, 118, 119, 202, 203, 205, 206, 210, 212, 213, 214, 215, 216, 217, 218, 219

Global and Social Awareness - 6 Hours (3 hours MUST be upper division), selected from:

AGRI	431	International Food Policy, 3 hrs.	HUM	336	Hispanic Civilization, 3 hrs.
BIOL	448/448L	Ethnobot. of the N. Plains, 4 hrs.	HUM	432	World Mythology and Folklore, 3 hrs.
ECON	130	Survey of Economics, 3 hrs.	ITE	331	Humankind, Society and Tech., 3 hrs.
ECON	332	International Econ & Societies, 3 hrs.	MUS	436	African-American Popular Music, 3 hrs.
ENG	436	World Literature, 3 hrs.	P S	332	International Politics, 3 hrs.
FCS	335	Families in Society, 3 hrs.	PHYS	435	World Environmental Issues, 3 hrs.
FCS	436	Global Food Systems, 3 hrs.	PSYC	421	Culture and Psychology, 3 hrs.
GEOG	300	World Cultures, 3 hrs.	S S	323	Law and the American Society, 3 hrs.
GEOS	137	Environmental Geology, 3 hrs.	SOC	230	Society: Structure and Process, 3 hrs.
HIST	320	The Asian Cultural Realm, 3 hrs.	SOC	335	Ethnic & Minority Grp. Relat., 3 hrs.
HONS	100/200/300	Honors Seminar, 3 hrs.	SOC	340	Social Change, 3 hrs.
HONS	201	Human Society, 3 hrs.	SPAN	131	First Year Spanish I or appropriate course to enhance competency in Spanish, 3 hrs.
HUM	335	Comparative Religion, 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.	PHIL	333	Logic, 3 hrs.
HONS	301	Human Knowledge, 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

Freshman Year:

HONS 100	Honors Seminar	Fall	1 cr.
HONS 101	Human Nature	Spring	<u>3 cr.</u> 4 cr.

Sophomore Year:

HONS 200	Honors Seminar	Fall	1 cr.
HONS 201	Human Society	Spring	<u>3 cr.</u> 4 cr.

Junior Year:

HONS 300	Honors Seminar	Fall	1 cr.
HONS 301	Human Knowledge	Spring	3 cr.
Select Thesis Topic and Advisor		Spring	<u>0 cr.</u> 4 cr.

Senior Year:

HONS 401	Senior Thesis	Spring	<u>3 cr.</u> 4 cr.
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HONS 100/200/300 Honors Seminar

Credit 1 hr.

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

Credit 3 hrs.

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

HONS 201 Human Society

Credit 3 hrs.

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

Credit 3 hrs.

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

Credit 3 hrs.

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 courses.) 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	<u>36 hours</u>
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	<u>3</u>
Mathematics	3		40

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:

IST 130	Intro to Computer Applications	3	LMS 434	Electronic Information Technology	3	
IST 230	Intro to Internet Applications.....	3	LMS 439	Procedures & Practice in LM.....	3	
LMS 332	Organization of Resources.....	3	IST 230	Intro to Internet Applications	3	
LMS 333	Library Administration	3	MIS 130	Principles of Information Systems.....	3	
LMS 334	Information Resources.....	3	MIS 331	Database Management	3	
LMS 335	Selection & Assessment of Resources....	3	MIS 431	Systems Analysis & Design.....	3	
					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:

ENG 235	Children's Literature.....	3	LMS 334	Information Resources	3	
ENG 438	Adolescent Literature.....	3	LMS 335	Selection & Assessment of Resources	3	
IST 230	Introduction to Internet Applications.....	3	LMS 434	Electronic Information Technology	3	
LMS 332	Organization of Resources.....	3	LMS 439	Procedures & Practice in LM.....	3	
LMS 333	Library Administration	3	MIS 130	Principles of Information Systems.....	3	
					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**

IS 230	Introduction to Internet Applications.....	3	LMS 335	Selection & Assessment of Resources	3	
LMS 332	Organization of Resources.....	3	LMS 434	Electronic Information Technology	3	
LMS 333	Library Administration	3	LMS 439	Procedures & Practice in Library Media	3	
LMS 334	Information Resources.....	3			Total	21

*Includes completion of EDUC 431e Special Methods.

COURSE DESCRIPTIONS

LMS 132 Introduction to Libraries and Research Credit 3 hours

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 Credit 3 hours

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 Credit 3 hours

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 Credit 3 hours

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 of 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/engines, 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

C A 231	Introduction to Desktop Publishing	3	C A 346	Intercultural Communication	3
C A 233	Multimedia & Presentational Speaking ..	3	C A 351	Organizational Communication	3
C A 234	Photojournalism	3	C A 390	Internship in Communication	
C A 238	Introduction to Mass Media	3		OR	
C A 333	News Journalism	3	C A 391	Internship in Journalism	3
C A 334	Theories & Practices of Persuasion	3	C A 434	Editing and Design	3
					30

Communication Option

Core Requirements		30	C A 420	Relational & Family Communication	3
C A 225	Interpersonal & Small Group Comm	3	C A 430	Communication Research Methods	3
C A 230	Conflict Resolution & Mediation	3	C A 440	Gendered Communication	3
C A 260	Introduction to Comm Theory	3		Upper division CA courses	3
					Total 54

Journalism Option

Core Requirements		30	ENG 240	Adv. Grammar and Composition	3
ART 229	Intro to Graphic Design	3	ENG 337	Technical Writing II	3
ART 329	Graphic Design II	3	MKTG 231	Principles of Marketing	3
C A 431	Publication Projects	6	MKTG 336	Advertising	3
					Total 54

Public Relations Option

Core Requirements	30	C A 350	Public Relations Multimedia	3	
ART 229	Intro to Graphic Design	3	C A 430	Communication Research Methods	3
C A 230	Conflict Resolution & Mediation	3	C A 431	Publication Projects	3
C A 250	Public Relations Techniques	3	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	Elective I*	.....	3
C A 334	Theories & Practices of Persuasion	3	Elective II**	.....	6
			Elective III***	.....	6
			Total		21

*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 431	Publication Projects	3
C A 234	Photojournalism	3	C A 434	Editing and Design	3
C A 238	Intro to Mass Media	3	ENG 337	Tech Writing II	3
C A 333	News Journalism	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 430	Communication Research Methods	3
C A 230	Conflict Resolution and Mediation	3	C A 431	Publication Projects	3
C A 250	Public Relations Techniques	3	C A 434	Editing and Design	3
C A 350	Public Relations Multimedia	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 interculturality.

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 topics 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.

ENG 335	Hist. of Amer. Lit. (a) & (b)	6	ENG 435	Native American Literature	
ENG 338	Hist. of Eng. Lit. (a) & (b)	6		OR	
ENG 339	Creative Writing	3	ENG 436	World Literature	3
ENG 431	Topics in English (taken twice with different emphasis)	6	ENG 439	Dramatic Literature	3
ENG 432	Shakespeare	3	ENG 440	Theory & Practice of Literary Criticism ...	3
			ENG 441	English & American Novels	3
					Total 36

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.

C A 238	Introduction to Mass Media	3	ENG 435	Native American Literature	
ENG 240	Advanced Grammar & Composition	3		OR	
ENG 331	Theory & Practice of Writing	3	ENG 436	World Literature	3
ENG 335	Hist. of Amer. Lit. (a) & (b)	6	ENG 438	Adolescent Literature	3
ENG 338	Hist. of Eng. Lit. (a) & (b)	6	ENG 440	Theory & Practice of Literary Criticism .	3
ENG 432	Shakespeare	3	ENG 441	English & American Novels	3
					Total 36

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.

C A 144	Oral Interpret & Perform Studies	3	ENG 338	Hist. of Eng. Lit. (a) & (b)	6
C A 225	Interpersonal & Small Group Comm. OR		ENG 339	Creative Writing	3
C A 346	Intercultural Communications	3	ENG 432	Shakespeare	3
C A 231	Introduction to Desktop Publishing OR		ENG 435	Native American Literature	
C A 233	Multimedia & Presentational Speaking ..	3	ENG 436	World Literature	3
C A 238	Introduction to Mass Media	3	ENG 438	Adolescent Literature	3
C A 333	News Journalism	3	ENG 440	Theory & Practice of Literary Criticism .	3
C A 334	Theories & Practices of Persuasion	3	ENG 441	English & American Novels	3
C A 434	Editing & Design	3	READ 430	Reading in the Middle/Sec Sch	3
ENG 240	Advanced Grammar and Composition ...	3	TH 134	Principles of Acting	3
ENG 331	Theory and Practice of Writing	3	TH 159 & 159L	Technical Theatre and Lab	3
ENG 335	Hist. of Amer. Lit. (a) & (b)	6	TH 237	Beginning Directing	3
					Total 69

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.

ENG 240	Advanced Grammar & Composition	3	ENG 339	Creative Writing	3
ENG 331	Theory & Practice of Writing	3	ENG 438	Adolescent Literature	3
ENG 335	Hist. of Amer. Lit. (a) or (b)	3			
ENG 338	History of Eng. Lit. (a) or (b)	3			
					Total 18

MINORS in English

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

C A 333	News Journalism	ENG 335	History of Amer. Lit. (a) & (b)	6
	OR	ENG 338	History of Eng. Lit. (a) & (b).....	6
ENG 240	Adv. Grammar & Composition	ENG 435	Native American Literature	
	OR		OR	
ENG 337	Technical Writing II	ENG 436	World Literature.....	3
	OR	ENG 440	Theory & Practice of Literary Criticism .	3
ENG 339	Creative Writing		Total	21

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

ENG 233	Elements of Lit.	3	ENG 335	History of American Literature (a) or (b)..	3
ENG 240	Advanced Grammar and Composition ...	3	ENG 339	Creative Writing	3
ENG 331	Theory & Practice of Writing	3	ENG 435	Native American Literature	3
			HUM 432	World Mythology & Folklore	3
				Total	21

COURSE DESCRIPTIONS**ENG 135 Composition I Credit 3 hours**

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 Credit 3 hours

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 Credit 3 hours

Instruction in expository techniques, organization patterns, and realistic situations encountered in science and industry. Prerequisite: ENG 135.

ENG 233 Elements of Literature Credit 3 hours

A study of the elements of poetry, drama, and fiction.

ENG 235 Children's Literature Credit 3 hours

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 Credit 3 hours

Techniques of writing non-fiction prose, including invention, research, organization, expression, style, and grammar.

ENG 331 Theory and Practice of Writing Credit 3 hours

An examination of various methods and programs in teaching writing, including practical experience in responding to writing.

ENG 335 History of American Literature Credit 3 hours

(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, post-structuralism, 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.

HUM 331	Popular Culture	3	HUM 335	Comparative Religion	3
HUM 334	Introduction to Film	3	HUM 432	World Mythology & Folklore	3
HUM 334L	Introduction to Film Screening Lab	1	PHIL 231	Intro to Philosophy	3
				One 3 hour elective in the Humanities	3
				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:

SPAN 231* Second Year Spanish I 3	SPAN 335 Spanish Composition & Conversation 3
SPAN 232 Second Year Spanish II 3	SPAN 336 Spanish Life & Society
SPAN 317 Survey of Spanish Literature 3	OR
SPAN 333 Survey of Spanish-American Lit 3	SPAN 337 Hispanic Civilization 3
SPAN 333L Spanish Lab 3	Electives in Spanish
SPAN 334 Spanish Grammar & Composition 3	OR
	Courses offered in Mexico or Spain 6
	Total <u>30</u>

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:

SPAN 231* Second Year Spanish I 3	SPAN 336 Spanish Life & Society
SPAN 232 Second Year Spanish II 3	OR
SPAN 317 Survey of Spanish Literature	SPAN 337 Hispanic Civilization 3
OR	Electives in Spanish
SPAN 333 Survey of Spanish-American Lit 3	OR
SPAN 333L Spanish Lab 6	Courses offered in Mexico or Spain 6
SPAN 334 Spanish Grammar & Composition 3	<u>30</u>
SPAN 335 Spanish Composition & Conversation 3	

*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.

SPAN 231* Second Year Spanish I 3	Electives in Spanish (at the 300 level or above)
SPAN 232 Second Year Spanish II 3	OR
SPAN 333L Spanish Lab 1	Courses offered in Mexico or Spain 9
SPAN 335 Spanish Composition & Conversation 3	Total <u>20</u>

*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 hour**
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.

IST 270 Topics in Information Science and Technology Credit 1-3 hours

Special topics appropriate for lower division credit. May be repeated with different emphases for up to six hours of credit.

IST 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 ITE 301.

IST 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 ITE 302.

IST 332 Assembly Language Programming Credit 3 hours

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.

IST 338 Programming Languages Credit 3 hours

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.

IST 340 Software Design Credit 3 hours

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.

IST 390 Internship in Information Science and Technology Credit 1-12 hours

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.

IST 400 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 up to 6 credit hours total. Prerequisite: Permission of instructor and School Dean.

IST 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. Prerequisites: IST/ITE 201, 301, and 302. This course is cross-listed as ITE 402.

IST 410 Seminar in Information Science and Technology Credit 1 hour

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.

IST 430 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 up to 6 credit hours total. Prerequisites: IST 133 and appropriate background for topics covered.

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.

MATH 151	Calculus I	5	MATH 337	Elementary Linear Algebra	3
MATH 237	History and Foundations of Math	3	MATH 410	Mathematics Seminar	1
MATH 252	Calculus II	5	MATH 429	Intro. to Modern Algebra	3
MATH 330	Differential Equations	3	MATH 434	Introductory Analysis	3
MATH 331	Probability and Statistics	3	*Electives	.....	4
MATH 336	Calculus III	3			
				Total	36

*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.

MATH 151	Calculus I	5	MATH 336	Calculus III	3
MATH 237	History and Foundations of Math	3	MATH 337	Elementary Linear Algebra	3
MATH 252	Calculus II	5	MATH 401	Adv. Math Education Perspectives	3
MATH 330	Differential Equations	3	MATH 410	Mathematics Seminar	1
MATH 331	Probability and Statistics	3	MATH 429	Intro. to Modern Algebra	3
MATH 334	College Geometry	3	MATH 434	Introductory Analysis	3
				Total	38

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 235	Math for the Elem. Teacher I	3
MATH 138	Applied Calculus	3	MATH 335	Math for the Elem. Teacher II	3
MATH 232	Applied Statistics		MATH 401	Adv. Math Education Perspectives	3
	OR				
MATH 331	Probability and Statistics	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	MATH 331	Probability and Statistics	3
	EITHER			Upper Division Math Electives	7
MATH 237	History and Foundations of Mathematics				Total 20-21
	AND				
MATH 239	Discrete Mathematics				
	OR				
MATH 252	Calculus II	5-6			

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		MATH 337	Elem. Linear Algebra	3
	OR		MATH 338	Operations Research	3
MATH 151	Calculus I	3-5	MATH 433	Statistical Methods and Data Analysis ...	3
MATH 331	Probability & Statistics	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 235	Math for the Elem. Teacher I	3
MATH 232	Applied Statistics		MATH 335	Math for the Elem. Teacher II	3
	OR			Electives selected from list below	6-7
MATH 331	Probability and Statistics	3			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 Credit 3 hours

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.

MATH 133 Introduction to Mathematics Credit 3 hours

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

MATH 134 Plane Trigonometry Credit 3 hours

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.

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

Theory and solutions of ordinary differential equations and systems of differential equations. Modeling of science, engineering, and social science problem situations and phenomena. Prerequisite: MATH 252.

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

BIOL 131 Fundamentals of Cellular Biology	3	BIOL 332 Genetics	3
BIOL 138 & 138L General Botany & Lab	3	BIOL 410 Biology Seminar	1
BIOL 139 & 139L General Zoology & Lab	3	*CHEM 140 & 140L General Chemistry & Lab	4
BIOL 231 & 231L Anatomy & Physiology & Lab		**CHEM 231 & 231L Intro to Organic Chem & Lab ..	4
OR		CHEM 435 & 435L Biochemistry & Lab	4
BIOL 340 & 340L Human Anatomy & Lab	4	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 Option¹

Core Requirements	29	BIOL 341 & 341L Microbiology & Lab	4
BIOL 229 & 229L Vertebrate Zoology & Lab		BIOL 425 & 425L Plant Morphology & Lab	3
OR		BIOL 431 & 341L Entomology & Lab	3
BIOL 328 & 328L Invertebrate Zoology & Lab	2	BIOL 438 & 438L Taxonomy of Plants & Lab	3
BIOL 336 & 336L General Ecology & Lab	3	BIOL 444 & 444L Limnology & Lab	3
BIOL 337 Environmental Management	3	GEOS 231 & 231L Physical Geology & Lab	4
		Total	57

General Biology Option

Core Requirements	29	BIOL 341 & 341L Microbiology & Lab	4
BIOL 229 & 229L Vertebrate Zoology & Lab	2	BIOL 425 & 425L Plant Morphology & Lab	3
BIOL 311 Fact, Fiction and Hypotheses	1	BIOL 432 & 432L Developmental Biology & Lab	3
BIOL 328 & 328L Invertebrate Zoology & Lab	2	BIOL 449 & 449L Molecular Biology & Lab	4
BIOL 336 & 336L General Ecology & Lab	3	Upper Division Biology Electives	6
		Total	57

Human Biology Option²

Core Requirements	29	BIOL 433 & 433L Anal. of Human Move. & Lab	
BIOL 311 Fact, Fiction and Hypotheses	1	OR	
BIOL 341 & 341L Microbiology & Lab	4	BIOL 456 & 456L Path Micro & Parasit & Lab	3
BIOL 342 & 342L Human Physiology & Lab	4	BIOL 449 & 449L Molecular Biol of Cell & Lab	4
BIOL 430 Immunology		PSYC 131 General Psychology	3
OR		PSYC 334 Developmental Psychology	
BIOL 465 Neuroscience	3	OR	
BIOL 432 & 432L Developmental Biol & Lab	3	PSYC 430 Intro to Physiological Psychology ..	3
		Total	57

Molecular Biology Option³

Core Requirements	29	BIOL 412 Biotechnology	3
PHYS 151 & 151L College Physics I & Lab	5	BIOL 430 Immunology	3
PHYS 152 & 152L College Physics II & Lab	5	BIOL 432 & 432L Developmental Biol & Lab	3
BIOL 311 Fact, Fiction & Hypotheses	1	BIOL 449 & 449L Molecular Biology & Lab	4
BIOL 341 & 341L Microbiology & 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, C A 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.

BIOL 131	Fundamentals of Cellular Biology ...	3	BIOL 410	Biology Seminar	1
BIOL 138 & 138L	General Botany & Lab	3	BIOL 412	Biotechnology	3
BIOL 139 & 139L	General Zoology & Lab	3	#CHEM 140 & 140L	General Chemistry & Lab	4
BIOL 231 & 231L	Anat. & Physiology & Lab	4	##CHEM 231 & 231L	Intro to Org. Chem & Lab	4
BIOL 332	Genetics	3	GEOS 231 & 231L	Physical Geology & Lab	4
BIOL 336 & 336L	General Ecology & Lab	3	PHYS 151 & 151L	College Physics I & Lab	5
BIOL 341 & 341L	Microbiology & Lab	4			
					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

BIOL 131	Fundamentals of Cellular Biology	3	CHEM 131 & 131L	College Chemistry I & Lab ²	4
BIOL 139 & 139L	General Zoology & Lab	3	CHEM 132 & 132L	College Chemistry II & Lab ²	5
BIOL 231 & 231L	Anatomy and Physiology & Lab		CHEM 231 & 231L	Intro to Organic Chem & Lab ³	4
	OR		CHEM 435 & 435L	Biochemistry & Lab ^{3,4}	4
BIOL 340 & 340L	Human Anatomy & Lab	4	PHYS 151 & 151L	College Physics & Lab I ⁵	5
BIOL 341 & 341L	Microbiology & Lab ¹	4			
					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 410	Biology Seminar	1
BIOL 110	Introduction to Medical Tech	BIOL 430	Immunology	3
BIOL 311	Fact, Fiction, and Hypotheses	BIOL 456 & 456L	Pathogenic Microbiology & Lab	3
BIOL 323 & 323L	Basic Hematology & Lab	CHEM 332 & 332L	Analytical Instrument & Lab	3
BIOL 332	Genetics		Total	51

General Studies

C A 125	Fundamentals of Oral Comm	3	MATH 232	Applied Statistics	3
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	SOC 231	Introduction to Sociology	3
HUM 231	Patterns in the Humanities	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

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 410	Biology Seminar	1
BIOL 311	Fact, Fiction, & Hypothesis	PHYS 152 & 152L	College Physics II & Lab	5
BIOL 342 & 342L	Human Physiology & Lab		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

C A 125	Fundamentals of Oral Comm.....	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
MATH 232	Applied Statistics	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.

Core Requirements	36	BIOL 443	Rural Health Issues	1	
BIOL 311	Fact, Fiction, and Hypothesis	1	PHYS 152 & 152L	College Physics II & Lab	5
BIOL 410	Biology Seminar	1	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

C A 125	Fundamentals of Oral Comm.....	3	MATH 232	Applied Statistics	3
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

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.

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

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.

Core Requirements	36	MATH 151	Calculus I	5	
BIOL 311	Fact, Fiction and Hypotheses	1	MATH 232	Applied Statistics	3
BIOL 342 & 342L	Human Physiology & Lab	4	PHYS 152 & 152L	College Physics II & Lab	5
BIOL 410	Biology Seminar	1	Total		55

General Studies

C A 125	Fundamentals of Oral Comm	3	MATH 134	Plane Trigonometry	3
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	Social Science elective	3	
				Total	30

**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.

Core Requirements	31	BIOL 410	Biology Seminar	1	
BIOL 311	Fact, Fiction, and Hypotheses	1	BIOL 433 & 433L	Analysis of Human Move & Lab	3
BIOL 332	Genetics	3	BIOL 443	Rural Health Issues	1
BIOL 342 & 342L	Human Physiology & Lab	4	PHYS 152 & 152L	College Physics II & Lab	5
			PSYC 433	Abnormal Psychology	3
				Total	52

General Studies

C A 125	Fundamentals of Oral Comm	3	MATH 134	Plane Trigonometry*	3
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 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.

Core Requirements	36	PHYS 152 & 152L	College Physics II & Lab	5	
BIOL 311	Fact, Fiction, and Hypothesis	1	Upper Division Program Electives*	10	
BIOL 410	Biology Seminar	1		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

C A 125	Fundamentals of Oral Comm	3	MATH 232	Applied Statistics	3
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 446	Animal Breeding and Reproduction	3	
AGRI 132	Animal Science	4	BIOL 332	Genetics	3
AGRI 234 & 234L	Prin of Animal Nutrition & Lab	3	BIOL 410	Seminar	1
AGRI 341 & 341L	Phys of Domestic Anim & Lab	4	BIOL 432 & 432L	Developmental Biology & Lab	3
AGRI 410	Agriculture Seminar	1			
					Total 58

General Studies

BIOL 229 & 229L	Vertebrate Zoology & Lab	2	MATH 232	Applied Statistics	3
C A 125	Fundamentals of Oral Comm	3	PHYS 152 & 152L	College Physics II & Lab	5
ENG 135	Composition I**	3	General Studies Electives: 12 hours to fulfill		
ENG 137	Technical Writing**	3	General Studies requirements in Government,		
HUM 231	Patterns in the Humanities	3	History, and Global & Social Awareness		
					12
					Total 34

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

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 410	Biology Seminar	1
BIOL 311	Fact, Fiction and Hypotheses	1	Program Electives (See above paragraph)	16
				Total 54

General Studies

C A 125	Fundamentals of Oral Comm	3	MATH 232	Applied Statistics	3
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	SOC 231	Introduction to Sociology	3
HUM 231	Patterns in the Humanities	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	<u>35</u>
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 332 Genetics	3
BIOL 138 & 138L General Botany & Lab	3	Upper Division Biology Electives*	<u>9</u>
BIOL 139 & 139L General Zoology & Lab	3	Total	<u>21</u>

*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	AGRI 245 Principles of Soil Science	3
BIOL 336 & 336L General Ecology & Lab	3	AGRI 339 & 339L Range Plant Identification & Lab ...	3
BIOL 438 & 438L Taxonomy of Plants & Lab	3	GEOS 321 Introduction to GPS	1
BIOL 439 & 439L Plant Physiology & Lab	3	GEOS 322 Introduction to GIS	<u>2</u>
		Total	<u>21</u>

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 426 Wildlife Research & Mgmt Tech	3
BIOL 325 & 325L Rangeland Wildlife Mgmt & Lab ...	3	BIOL 435 Mammalogy	3
BIOL 401 Ornithology	3	BIOL 437 Wildlife Mgmt Practicum	3
		Electives	<u>3</u>
		Total	<u>21</u>

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 phylogenetic 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** **Credit 1 hour**
Laboratory experience. Must be taken concurrently with BIOL 328.
- BIOL 331 Human Sexuality** **Credit 3 hours**
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.
- BIOL 332 Genetics** **Credit 3 hours**
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.
- BIOL 336 General Ecology** **Credit 2 hours**
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.
- BIOL 336L General Ecology Laboratory** **Credit 1 hour**
Laboratory experience. Must be taken concurrently with BIOL 336.
- BIOL 337 Environmental Management** **Credit 3 hours**
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.
- BIOL 340 Human Anatomy** **Credit 3 hours**
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.
- BIOL 340L Human Anatomy Laboratory** **Credit 1 hour**
Laboratory experience. Must be taken concurrently with BIOL 340.
- BIOL 341 Microbiology** **Credit 2 hours**
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.
- BIOL 341L Microbiology Laboratory** **Credit 2 hours**
Laboratory experience. Must be taken concurrently with BIOL 341.
- BIOL 342 Human Physiology** **Credit 3 hours**
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.
- BIOL 342L Human Physiology Laboratory** **Credit 1 hour**
Laboratory experience. Must be taken concurrently with BIOL 342.
- BIOL 343 Parasitology** **Credit 2 hours**
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.
- BIOL 343L Parasitology Laboratory** **Credit 1 hour**
Laboratory experience. Must be taken concurrently with BIOL 343.
- BIOL 350 Field Biology** **Credit 1-6 hours**
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.
- BIOL 390 Internship in Biology** **Credit 1-12 hours**
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.

- 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 343/343L.
- 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

Major Subjects

Semester Hours Credit

- | | |
|---|---|
| <p>1. Clinical Microscopy/Urinalysis</p> <p>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.</p> | <p>Range of Credit: 2-3 sem. hrs.</p> |
| <p>2. Clinical Hematology/Coagulation</p> <p>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.</p> | <p>Range of Credit: 5-8 sem. hrs.</p> |
| <p>3. Clinical Microbiology</p> <p>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.</p> | <p>Range of Credit: 8-12 sem. hrs.</p> |
| <p>4. Clinical Serology/Immunology</p> <p>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.</p> | <p>Range of Credit: 2-3 sem. hrs.</p> |
| <p>5. Clinical Chemistry/Radiobioassay/Body Fluids</p> <p>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.</p> | <p>Range of Credit: 8-12 sem. hrs.</p> |
| <p>6. Clinical Immunohematology</p> <p>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.</p> | <p>Range of Credit: 4-6 sem. hrs.</p> |

Specialized Units (Special Topics)

Semester Hours Credit

7. Orientation to Medical Technology**Range of Credit: 0-1 sem. hrs.****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**Range of Credit: 0-4 sem. hrs.**

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**Range of Credit: 0-4 sem. hrs.**

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**Range of Credit: 0-1 sem. hrs.**

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

CHEM, GEOS or PHYS 110 Careers in Science	1	CHEM, GEOS, PHYS 410 Capstone III: Senior Research Thesis	1
CHEM 131 & 131L College Chemistry I & Lab	4	GEOS 231& 23L Physical Geology & Lab	4
CHEM, GEOS, PHYS 310 Capstone I: Research Seminar	1	GEOS 321 Introduction to GPS	1
CHEM 332 & 332L Analytical Instru & Lab	3	GEOS 322 Introduction to GIS	2
CHEM, GEOS, PHYS 401 Capstone II: Senior Research	2	PHYS 151& 151L College Physics & Lab	5
		PHYS 370D Scientific Computer Applications	3
		Math elective chosen from 138, 151, or 232	3-5
		Total	30-32

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.

Core requirements	30	CHEM 234 & 234L Organic Chemistry II & Lab	4
CHEM 132 & 132L College Chemistry II & Lab	5	CHEM 341 & 341L Analytical Chemistry I & Lab	4
CHEM 233 & 233L Organic Chemistry I & Lab	4	*Upper division Chemistry electives	11
		Total	58

* 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.

Core requirements	32	PHYS 454 Electricity & Magnetism	3
MATH 252 Calculus II	5	PHYS 464 Quantum Mechanics I	3
PHYS 152 & 152L College Physics II & Lab	5	PHYS 370a Modern Physics	3
PHYS 434 Mechanics	3	PHYS 471k Advanced Physics Lab	1
PHYS 444 Thermodynamics	3	Total	58

Geoscience Option

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

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

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.

Biology Electives	1	CHEM 320 Sup Study in Lab/Field Methods	1
BIOL 138 & 138L General Botany & Lab		CHEM 341 & 341L Analytical Chemistry I & Lab	4
OR		CHEM 430 Inorganic Chemistry	3
BIOL 139 & 139L General Zoology & Lab	3	CHEM 435 & 435L Biochemistry & Lab	4
CHEM 131 & 131L College Chemistry I & Lab	4	CHEM 444 & 444L Physical Chemistry & Lab	4
CHEM 132 & 132L College Chemistry II & Lab	5	GEOS 231 & 231L Physical Geology & Lab	4
CHEM 231 & 231L Intro to Organic Chem & Lab	4	PHYS 151 & 151L College Physics I & Lab	5
CHEM 310 Capstone I: Research Seminar	1	Total	43

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	PHYS 151 & 151L College Physics I & Lab	
GEOS 137 Environmental Geology	3	OR	
GEOS 231 & 231L Physical Geology & Lab	4	PHYS 241 & 241L University Physics I & Lab	5
GEOS 234 & 234L History of Earth Systems & Lab	4	PHYS 333 & 333L Astronomy & Lab	3
GEOS 310 Capstone I: Research Seminar	1	PHYS 334 Meteorology	3
GEOS 320 Sup Study in Lab & Field Methods	1	Biology Electives	6
GEOS 338 Rocks & Minerals	3	Geoscience Electives	3
GEOS 431 Geology of Water Resources	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).

Core	.....	28 hours from core requirement selection below
Concentration	.....	24-25 hours from one area of concentration selection below
Total	.....	52-53 hours

CORE REQUIREMENTS : Choose 28 credits from the following:

BIOL 131 Fundamentals of Cell Biology	3	GEOS 234 & 234L History of Earth System & Lab	4
BIOL 138 & 138L General Botany & Lab	3	PHYS 151 & 151L College Physics I & Lab	5
BIOL 139 & 139L General Zoology & Lab	3	PHYS 333 & 333L Astronomy & Lab	
CHEM 131 & 131L College Chem I and Lab	4	OR	
CHEM 231 & 231L Intro to Organic Chem & Lab	4*	PHYS 334 Meteorology	3
CHEM 341 & 341L Analytical Chem I & Lab	4	Upper division BIOL, CHEM, GEOS or	
GEOS 231 & 231L Physical Geology & Lab	4	PHYS electives	5

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**

CHEM 110 Careers in Science	1	BIOL 311 Fact, Fiction & Hypotheses	1
BIOL 131 Fundamentals of Cell Biology	3	BIOL 332 Genetics	3
BIOL 138 & 138L General Botany & Lab	3	BIOL 336 & 336L General Ecology & Lab	3
BIOL 139 & 139L General Zoology & Lab	3	BIOL 341 & 341L Microbiology & Lab	4
BIOL 231 Anatomy & Physiology I & II	4	Total	25

Courses in taxonomy such as BIOL 401, 431, 435 or 438 are highly recommended.

CHEMISTRY

CHEM 110 Careers in Science	1	CHEM 310 Capstone I	1
CHEM 131 & 131L General Chem I & Lab	4	CHEM 320 Supervised Study in Lab Methods	1
CHEM 132 & 132L General Chem II & Lab	4	CHEM 433 Environmental Chemistry	3
CHEM 231 & 231L Organic Chem & Lab	4	CHEM 435 & 435L Biochemistry & Lab	4
		Electives in Chemistry	3
		Total	25

EARTH SCIENCE

GEOS 110 Careers in Science	1	GEOS 322 Introduction to GIS	2
GEOS 137 Environmental Geology	3	GEOS 338 Rocks & Minerals	3
GEOS 231 & 231L Physical Geology & Lab	4	GEOS 431 Geology of Water Resources	3
GEOS 234 & 234L Hist of the Earth Sys & Lab	4	GEOS 439 & 439L Stratig and Sed & Lab	4
GEOS 321 Introduction to GPS	1	Total	25

PHYSICS

PHYS 110 Careers in Science	1	PHYS 333 & 333L Astronomy & Lab	3
PHYS 151 & 151L Colg Physics I & Lab	5	PHYS 334 Meteorology	3
PHYS 152 & 152L Colg Physics II & Lab	5	PHYS 370A & 370L Modern Physics & Lab	4
PHYS 310 Capstone I	1	PHYS 435 World Environmental Issues	3
		Total	25

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.

CHEM 131 & 131L College Chemistry I & Lab	4	GEOS 234 & 234L History of the Earth Sys & Lab	4
CHEM 231 & 231L Intro to Organic Chem & Lab	4	GEOS 338 Rocks & Minerals	3
CHEM 433 & 433L Environmental Chemistry		PHYS 110 Careers in Science	1
OR		PHYS 151 & 151L College Physics I & Lab	5
CHEM 435 & 435L Biochemistry	4	PHYS 333 & 333L Astronomy & Lab	3
GEOS 137 Environmental Geology	3	PHYS 334 Meteorology	3
GEOS 231 & 231L Physical Geology & Lab	4	Electives in Biology: BIOL 131, 138/138L or	
		139/139L	6
		Total	44

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.

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

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:

BIOL 121 & 121L Human Anatomy & Phys & Lab	3	PHYS 330 Physical Science for Elem & Middle	
BIOL 136 & 136L Biological Science & Lab	3	School Teachers	3
CHEM 140 & 140L General Chemistry & Lab	4	Elective in Biol, Chem, Geoscience or Physics	1
GEOS 231 & 231L Physical Geology & Lab		Total	18
OR			
GEOS 234 & 234L History of Earth Systems & Lab	4		

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.

CHEM 140 & 140L General Chemistry & Lab	4	CHEM 433 & 433L Environmental Chem & Lab	
CHEM 231 & 231L Intro to Organic Chem & Lab	4	OR	
CHEM 332 & 332L Analytical Instrum & Lab.	3	CHEM 435 & 435L Biochemistry & Lab	4
		CHEM 444 & 444L Physical Chem & Lab	4
		Upper division chemistry elective	2*
		Total	21

*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.

GEOS 231 & 231L Physical Geology & Lab	4	GEOS 431	Geology of Water Resources	3	
GEOS 234 & 234L History of Earth Systems & Lab ...	4	GEOS 432	Structural Geology	3	
GEOS 338	Rocks & Minerals	3	GEOS 439 & 439L Sedimentology/Strat & Lab	4	
				Total	21

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

PHYS 151 & 151L College Physics I & Lab		PHYS 152 & 152L College Physics II & Lab		
OR		OR		
PHYS 241 & 241L University Physics I & Lab	5	PHYS 242 & 242L University Physics II & Lab	5	
		Upper Division Electives in Physics	10	
			Total	20

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

BIOL 337	Environmental Management	4	CHEM 433 & 433L Environmental Chem & Lab	4	
BIOL 429	Aquatic Microbiology	3	GEOS 231 & 231L Physical Geology & Lab	4	
CHEM 332 & 332L Analytical Instrumentation & Lab			GEOS 322	Introduction to GIS	
OR			GEOS 431	Geology of Water Resources	
AGRI 245 & 245L Prin of Soil Science & Lab	3-4			Total	22-23

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:

BIOL 121 & 121L Human Anat & Phys & Lab	3	PHYS 330	Phy Sci for Elem & Middle Sch Teach ...	3	
BIOL 136 & 136L Biological Science & Lab	3	Electives in Biology, Chemistry, Geoscience, or			
CHEM 140 & 140L General Chemistry & Lab	4	Physics	.....	1
GEOS 231 & 231L Physical Geology & Lab	4			Total	18

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:

GEOG 336	Map Use and GIS	3	GEOS 322	Introduction to GIS	2	
GEOG 390	Internship in Geography (GIS emphasis)		IST 133	Programming Concepts I	3	
	OR		IST 235	Visual Languages	3	
GEOG 400	Independent Study (GIS emphasis)	4	MIS 331	Database Management	3	
GEOS 321	Introduction to GPS	1			Total	19

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

- CHEM 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.
- CHEM 121 Fundamental Chemistry** **Credit 2 hours**
Required of students who have not taken high school chemistry who plan to enroll in CHEM 131 or CHEM 140.
- CHEM 131 College Chemistry I** **Credit 3 hours**
Principles and applications of general college chemistry. Concurrent enrollment in CHEM 131L is required. Prerequisite: High school algebra or Math 142, and high school chemistry or CHEM 121.
- CHEM 131L College Chemistry I Laboratory** **Credit 1 hour**
Accompanies College Chemistry I. Concurrent enrollment in CHEM 131 required.
- CHEM 132 College Chemistry II** **Credit 3 hours**
Continuation of College Chemistry I with qualitative analysis. Concurrent enrollment in CHEM 132L required. Prerequisite: CHEM 131 and 131L.
- CHEM 132L College Chemistry II Laboratory** **Credit 2 hours**
Laboratory exercises in General Chemistry II and qualitative analysis. Concurrent enrollment in CHEM 132 required.
- CHEM 140 General Chemistry** **Credit 3 hours**
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.
- CHEM 140L General Chemistry Laboratory** **Credit 1 hour**
Accompanies CHEM 140. Basic chemistry laboratory operations. Concurrent enrollment in CHEM 140 required.
- CHEM 231 Introduction to Organic Chemistry** **Credit 3 hours**
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.
- CHEM 231L Introduction to Organic Chemistry Laboratory** **Credit 1 hour**
Principle laboratory operations of organic chemistry, organic synthesis, and spectroscopy. Concurrent enrollment in CHEM 231 required.
- CHEM 233 Organic Chemistry I** **Credit 3 hours**
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.
- CHEM 233L Organic Chemistry I Laboratory** **Credit 1 hour**
Principle laboratory operations of organic chemistry, organic synthesis, and spectroscopy. Concurrent enrollment in CHEM 233 required.

CHEM 234 Organic Chemistry II Credit 3 hours

A continuation of Organic Chemistry I. Concurrent enrollment in CHEM 234L required. Prerequisite: CHEM 233/233L.

CHEM 234L Organic Chemistry II Laboratory Credit 1 hour

A continuation of Organic Chemistry I laboratory. Concurrent enrollment in CHEM 234 required.

CHEM 270 Topics in Chemistry Credit 1-3 hours

Special topics in chemistry appropriate for lower division credit. May be repeated with different emphases for up to six hours of credit.

CHEM 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.

CHEM 320 Supervised Study in Laboratory and Field Methods Credit 1-2 hours

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.

CHEM 332 Analytical Instrumentation Credit 2 hours

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.

CHEM 332L Analytical Instrumentation Lab Credit 1 hour

Laboratory experience in use and maintenance of scientific equipment. Concurrent enrollment in CHEM 332 required.

CHEM 341 Analytical Chemistry I Credit 3 hours

Principles of modern analytical chemistry. Must be taken concurrently with CHEM 341L. Prerequisite: CHEM 132/132L.

CHEM 341L Analytical Chemistry I Laboratory Credit 1 hour

Laboratory experience in quantitative analysis. Must be taken concurrently with CHEM 341.

CHEM 342 Analytical Chemistry II Credit 3 hours

Emphasis on instrumental and radioisotopic analysis. Must be taken concurrently with CHEM 342L. Prerequisite: CHEM 341/341L.

CHEM 342L Analytical Chemistry II Laboratory Credit 1 hour

Laboratory experience involving the use of quantitative instrumentation. Must be taken concurrently with CHEM 342.

CHEM 390 Internship in Chemistry Credit 1-12 hours

Provides practical experience as a chemist in government, business, or industry. Open to upper division students majoring 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.

CHEM 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.

- 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 geoscience 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/for 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.

PHYSICS

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.

- PHYS 242 University Physics II** **Credit 4 hours**
Principles of magnetism, electricity, and optics. Differential and integral calculus applied. Concurrent enrollment in PHYS 242L required. Prerequisite: MATH 151 and PHYS 241/241L.
- PHYS 242L University Physics Laboratory II** **Credit 1 hour**
Laboratory exercises in University Physics II. Concurrent enrollment in PHYS 242 required.
- PHYS 251 Statics** **Credit 3 hours**
Systems of force, static equilibrium, friction, center of gravity, moment of inertia, vector algebra, and central forces. Prerequisites: PHYS 151 or 241, and MATH 151.
- PHYS 252 Dynamics** **Credit 3 hours**
Displacement force, velocity and acceleration of rigid bodies, kinematics of planar motion, rotation and moment of inertia, work and energy, impulse and momentum, and lagrangian dynamics. Prerequisite: PHYS 251.
- PHYS 270 Topics in Physics** **Credit 1-3 hours**
Special topics appropriate for lower division credit in physics. May be repeated with different emphases for up to six hours of credit.
- PHYS 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.
- PHYS 320 Supervised Study in Laboratory and Field Methods** **Credit 1-2 hours**
Students will prepare, supervise, and evaluate laboratory exercises under the direction of faculty members. The course is designed to give students practical experience teaching in the laboratory setting.
- PHYS 330 Physical Science for the Elementary and Middle Grades Teacher** **Credit 3 hours**
A laboratory oriented course intended to strengthen the physical science background of the elementary and middle grades teacher.
- PHYS 333 Astronomy** **Credit 2 hours**
A descriptive study of the solar system, stars, and galactic systems, including theories of the origin of the universe and the solar system. Concurrent enrollment in PHYS 333L required.
- PHYS 333L Astronomy Laboratory** **Credit 1 hour**
Exercises in Astronomy. Held in the evening either outdoors or in the planetarium. Concurrent enrollment in PHYS 333 required.
- PHYS 334 Meteorology** **Credit 3 hours**
The physical behavior of the atmosphere including the causes of weather and the elements of forecasting.
- PHYS 370a Modern Physics** **Credit 3 hours**
Special relativity, quantum mechanics, nuclear physics, atomic physics, and additional topics concerning physics in the twentieth century. Prerequisite: PHYS 152 or 242.
- PHYS 370c Modern Physics Laboratory** **Credit 1 hour**
Experiments dealing with modern physics.
- PHYS 370d Scientific Computer Applications** **Credit 3 hour**
A computer based laboratory designed to familiarize students with physical science related computer applications.

PHYS 370e 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

CJ 231	Introduction to Criminal Justice	3	CJ 436	Seminar: Comparative CJ	3
CJ 232	Police in America	3	CJ 441	Ethical Issues in CJ	3
CJ 236	Introduction to Corrections	3	Law Enforcement Focus*	6	
CJ 336	Multicultural Issues in CJ	3	Law Focus*	6	
CJ 337	Introduction to Law	3	Juvenile Justice Focus*	6	
CJ 339	Criminology	3	Corrections Focus*	6	
CJ 434	Senior Seminar in CJ	3	Forensic Sciences Focus*	6	
				Total	57

***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

Corrections: CJ 234, 338, 430, 431, 443

Forensic Sciences: CJ 235, 323, 444, 445, 450

Juvenile Justice: 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: Student must complete the following in addition to the General Studies requirements.

Core Requirements

ACTG 241	Accounting Principles I	3	LS 338	Legal Research & Writing II.....	3
IST 130	Introduction to Computer Applications ..	3	LS 390	Internship	3
LS 231	Introduction to Legal Studies.....	3	LS 436	Ethics/Professional Responsibility	3
LS 232	Litigation/Civil Procedures	3	Commercial Focus*	9	
LS 238	Legal Research & Writing I	3	Litigation Focus*	9	
LS 337	Introduction to Law	3	Public Law Focus*	9	
				Total	54

***Focus Areas:** A student must complete nine (9) hours in each of the following three areas:

Commercial: LS 332, 343, 434, 435, 444

Public Law: LS 235, 236, 333, 431, 438

Litigation: LS 233, 331, 334, 432, 433

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	Plus three hours from three of the focus areas
CJ 232	Police in America	3	(Law Enforcement, Law, Corrections, Juvenile Justice,
CJ 236	Introduction to Corrections	3	or Forensic Sciences) as outlined in the description
CJ 337	Introduction to Law	3	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	Plus three hours in each of the focus areas
LS 238	Legal Research & Writing I	3	(Commercial, Litigation, and Public Law) as
LS 337	Introduction to Law	3	outlined in the description of the Legal Studies
LS 436	Ethics/Professional Responsibility	3	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 436	Ethics/Professional Responsibility	3
LS 238	Legal Research and Writing I	3	Elective I*	.....	3
LS 338	Legal Research and Writing II	3	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, 343, 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.

- CJ 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 LS 334.
- CJ 336 Multicultural Issues in CJ Credit 3 hours**
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.
- CJ 337 Introduction to Law Credit 3 hours**
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.
- CJ 338 Community Based Corrections Credit 3 hours**
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.
- CJ 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 a contemporary science. Cross-listed as SOC 339.
- CJ 390 Internship in Criminal Justice Credit 1-12 hours**
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.
- CJ 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 Criminal Justice and permission of Instructor and Dean.
- CJ 430 Topics in Corrections Credit 1-3 hours**
Topics selected to meet the needs of students in a special area of interest in corrections. Prerequisite: CJ 236 or permission of Instructor.
- CJ 431 Institutional Corrections Credit 3 hours**
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.
- CJ 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 LS 432.
- CJ 433 Rules of Evidence Credit 3 hours**
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.
- CJ 434 Senior Seminar in CJ Credit 3 hours**
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.

- CJ 435 Drugs, Alcohol and Crime Credit 3 hours**
Investigation of the relationship of drugs and alcohol on the nature and incidence of crime with focus on issues for police, courts and corrections.
- CJ 436 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. A field trip may be required.
- CJ 437 Topics in Law Enforcement Credit 1-3 hours**
Topics selected to meet the needs of students in a special area of interest in law enforcement. Prerequisite: CJ 232 or permission of Instructor.
- CJ 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: CJ 337 or LS 337, or permission of Instructor. Cross-listed as LS 438.
- CJ 439 Juvenile Offenders Credit 3 hours**
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.
- CJ 440 Topics in Juvenile Justice Credit 1-3 hours**
Topics selected to meet the needs of students in a special area of interest in juvenile justice.
- CJ 441 Ethical Issues in CJ Credit 3 hours**
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.
- CJ 442 Honors in Criminal Justice Credit 1-3 hours**
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.
- CJ 443 Correctional Law Credit 3 hours**
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.
- CJ 444 Forensic Sciences II Credit 3 hours**
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.
- CJ 445 Forensic Evidence Credit 3 hours**
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.
- CJ 450 Topics in Forensic Sciences Credit 1-3 hours**
Topics selected to meet the needs of students in a special area of forensic sciences. Prerequisites: CJ 323 or 444, or permission of Instructor.

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.

Option II: Museum Management

Core Requirements	27	MGMT 330	Organizational Theory & Behavior	3	
ACTG 241	Accounting Principles I	3	MKTG 231	Principles of Marketing	3
ACTG 433	Government & Not-for-Profit Actg	3	MKTG 336	Advertising	3
MGMT 230	Principles of Management	3	Electives (to be selected from list below)*	8	
				Total	53

Option III: Art

Core Requirements	27	ART 339	Art History Survey II	3	
ART 229	Intro to Graphic Design	3	ART 340	Twentieth Century Art Survey	3
ART 329	Graphic Design II	3	FCS 341	Textiles	3
ART 338	Art History Survey I	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 336	Map Use & Geographic Info Systems	3
GEOG 232	Cultural Geog	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:

HIST 231	U.S. History to 1877	3	HIST 320	Asian Cultural Realm	3
HIST 232	U.S. History since 1877	3	HIST 331	Latin American History	3
HIST 233	Western Civilization I	3	HIST 435	History of Historical Writing	3
HIST 234	Western Civilization II	3		Upper division electives in History	15
				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:

HIST 231	U.S. History to 1877	3	HIST 331	Latin American History	3
HIST 232	U.S. History since 1877	3		Electives in U.S. History	9
HIST 233	Western Civilization I	3		Electives in World History	6
HIST 234	Western Civilization II	3		Required supporting work in other	
HIST 320	Asian Cultural Realm	3		Social Science fields*	6
				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:

HIST 231	U.S. History to 1877	3	HIST 234	Western Civilization II	3
HIST 232	U.S. History since 1877	3	Upper division electives in History		9
HIST 233	Western Civilization I	3			Total 21

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.

- HIST 339 Nebraska History** **Credit 3 hours**
History of Nebraska with emphasis on geographical, social, political, and economic factors. May require field trips.
- HIST 390 Internship in History** **Credit 1-12 hours**
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.
- HIST 400 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 Dean is required.
- HIST 430 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 431 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 432 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 435 History of Historical Writing** **Credit 3 hours**
Methods of historical research, writing, and criticism, with emphasis on bibliography and historical interpretation.
- HIST 436 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 437 Issues in European History** **Credit 3 hours**
Selected topics of investigation in European history. May be repeated with different emphasis.
- HIST 441 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. 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.
- HIST 442 Europe in the Middle Ages** **Credit 3 hours**
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 443 The Era of World War II** **Credit 3 hours**
Study of the era of World War II as the pivotal and defining era of United States history in the Twentieth Century.

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:

PS 231	American National Government	3	PS 420	American Political Thought		
PS 332	International Relations			OR		
	OR		PS 431	History of Political Thought	3	
PS 341	Comparative Politics	3		Electives in Political Science*	12	
					Total	21

*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.

- PS 334 Public Opinion and Propaganda Credit 3 hours**
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.
- PS 337 Introduction to Law Credit 3 hours**
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.
- PS 341 Comparative Politics Credit 3 hours**
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.
- PS 390 Internship in Political Science Credit 1-12 hours**
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.
- PS 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 the Instructor and Dean is required.
- PS 420 American Political Thought Credit 3 hours**
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.
- PS 421 Contemporary Political Ideologies Credit 3 hours**
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.
- PS 430 Topics in Political Science Credit 3 hours**
Special topics in Political Science. May be repeated with a change of emphasis.
- PS 431 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 432 The Legislative Process Credit 3 hours**
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 436 Field Study in Political Science Credit 3 hours**
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.

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:

HIST 233	Western Civilization I	3	Electives in U.S. History	6
HIST 234	Western Civilization II	3	Electives in World History	3
HIST 320	Asian Cultural Realm	3	Focus area in ECON, GEOG or PS, SOC, & ANTHR	9
HIST 331	Latin American History	3	Additional SS electives, as below	30
Total				60

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 SOC 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.

Anthropology (231 recommended)

Economics (130, 231 or 232 recommended)

Geography (231, 232 recommended)

Political Science (231, upper division recommended)

Psychology (131, 231 recommended)

Sociology (231 recommended)

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:

GEOG 232	Cultural Geography	3	HIST 331	Latin American History
HIST 231	U.S. History to 1877			OR
	OR		HIST 430	History of the American Indian
HIST 232	U.S. History since 1877	3	PS 231	American National Government
HIST 233	Western Civilization I		SOC 231	Introduction to Sociology
	OR		Total	
HIST 234	Western Civilization II	3	18	

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:

GEOG 232	Cultural Geography	3	HIST 331	Latin American History
HIST 231	U.S. History to 1877			OR
	OR		HIST 430	History of the American Indian
HIST 232	U.S. History since 1877	3	PS 231	American National Government
HIST 233	Western Civilization I		SOC 231	Introduction to Sociology
	OR		Electives in GEOG, SOC, PS	
HIST 234	Western Civilization II	3	Total	
				21

- 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 hour

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

ART 131	Drawing I	3	ART 232	Painting I	3
ART 133	Design Fundamentals I	3	ART 321	Glass I (a) or (b)	3
ART 136	Figure Drawing I	3	ART 323	Creative Photography	
ART 225	Printmaking I	3		OR	
ART 227	Sculpture I	3	ART 223	Introduction to Photography	3
ART 228	Ceramics I	3	ART 338	Art History Survey I	3
ART 229	Introduction to Graphic Design	3	ART 339	Art History Survey II	3
ART 230	Design Fundamentals II	2	ART 412	Senior Thesis	1
					Core Total <u>39</u>

Graphic Design Option

Core requirements	39	ART 340	20th Century Art Survey	3	
CA 231	Intro to Desktop Publishing	3	ART 422	Graphic Design Practicum	3
ART 322	Graphic Design I	3	Art electives (must be upper division)	3	
ART 329	Graphic Design II	3	Total <u>57</u>		

Art Studio Option

Core requirements	39	*Electives selected from list below	12
ART 320	Figure Drawing II	3	Total <u>57</u>
ART 340	20th Century Art Survey	3	

*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.

ART 131	Drawing I	3	ART 323	Creative Photography	
ART 133	Design Fundamentals I	3		OR	
ART 136	Figure Drawing I	3	ART 223	Introduction to Photography	3
ART 225	Printmaking I	3	ART 334	Art for the Elem Teacher	3
ART 227	Sculpture I	3	ART 338	Art History Survey I	3
ART 228	Ceramics I	3	ART 339	Art History Survey II	3
ART 229	Introduction to Graphic Design	3	ART 340	20 th Century Art Survey	3
ART 230	Design Fundamentals II	2	ART 412	Senior Thesis	1
ART 232	Painting I	3	*Electives selected from list below	9	
ART 321	Glass I (a) or (b)	3	Total <u>54</u>		

*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.

ART 131	Drawing I	3	ART 321	Glass I (a) or (b)		
ART 133	Design Fundamentals I	3		OR		
ART 229	Introduction Graphic Design	3	ART 228	Ceramics I	3	
ART 232	Painting I	3		Electives in Art (Must be upper division)	6	
					Total	21

Art (K-6): A student must complete the following program in addition to the General Studies and Professional Education, Elementary Education requirements.

ART 131	Drawing I	3	ART 338	Art History Survey I		
ART 133	Design Fundamentals I	3		OR		
ART 228	Ceramics I	3	ART 339	Art History Survey II		
ART 229	Introduction to Graphic Design	3		OR		
ART 232	Painting I	3	*ART 340	20th Century Art Survey	3	
					Electives in Art (Must be upper division)	3
					Total	21

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 prerecital 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

MKTG 231	Principles of Marketing	3	MUS 232/232L	Theory IV and Lab	4
MUS 101	Student Recital	0	MUS 315	Private Instruction	3
MUS 115	Private Instruction	4	MUS 321	Choral Conducting	
MUS 131/131L	Theory I and Lab	4		OR	
MUS 132/132L	Theory II and Lab	4	MUS 322	Instrumental Conducting	2
MUS 231/231L	Theory III and Lab	4	MUS 415	Senior Recital	1
			MUS 438	Music History II	3
				Core Total	32

Music Performance Option

Core Requirement	32	MUS 117	Piano Class I	1*
MUS 102/302 Wind Ensemble		MUS 118	Piano Class II	1*
OR		MUS 311	Music Literature I	2
MUS 103/303 Choir	8	MUS 312	Music Literature II	2
MUS 105/305, 104/304, 106/306, 107/307, 108/308, or		MUS 315	Private Instruction (addition to core)	3
109/309 Chamber Ensembles	4	MUS 437	Music History I	3
			Total	56

*Students proficient in piano at time of enrollment may test out of the requirement.

Commercial Music Business Option

Core Requirement	32	MUS 336	Jazz Improvisation I	2**
MKTG 331 Sales Techniques	3	MUS 390	Internship	1***
MKTG 336 Advertising		MUS 413	Songwriting/Arr & MIDI I	1***
OR		MUS 419	Music Business	3
MKTG 338 Buyer Behavior		MUS 420	Music Products Seminar	1
OR			Emphasis Instrumental/Vocal or Piano Studio Oper ...	11
MKTG 433 Retailing			Total	57
OR				
MKTG 437 Services Marketing and Management	3			

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.

MUS 101 Student Recital	0	MUS 314	Percussion Pedagogy	1
MUS 102/302 Wind Ensemble		MUS 315	Private Instruction	2
OR		MUS 316	Vocal Pedagogy	1
MUS 103/303 Choir	6*	MUS 320	Brass Pedagogy	1
MUS 115 Private Instruction	4	MUS 321	Choral Conducting	2
MUS 117 Piano Class I	1**	MUS 322	Instrumental Conducting	2
MUS 118 Piano Class II	1**	MUS 323	Woodwind Pedagogy	1
MUS 131 & 131L Theory I & Lab	4	MUS 331	Teach Mus/Elem Schs	3
MUS 132 & 132L Theory II & Lab	4	MUS 332	Teach Mus/Sec. Schs	3
MUS 231 & 231L Theory III & Lab	4	MUS 412	Tech. of Marching Band	1
MUS 232 & 232L Theory IV & Lab	4	MUS 415	Senior Recital	1
MUS 311 Music Literature I	2	MUS 437	Music History I	3
MUS 312 Music Literature II	2	MUS 438	Music History II	3
MUS 313 String Pedagogy	1		Total	57

*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 216	Guitar Class	1
MUS 103/303	Choir	4	MUS 316	Vocal Pedagogy	1
MUS 115	Private Voice	4	MUS 321	Choral Conducting	2
MUS 117	Piano Class I	1*	MUS 331	Teach Music in Elem. Schools	3
MUS 118	Piano Class II	1*	MUS 437	Music History I	3
MUS 131/131L	Theory I & Lab	4	MUS 438	Music History II	3
MUS 132/132L	Theory II & Lab	4			
				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 101	Student Recital	0	MUS 438	Music History II	3
MUS 115	Private Instruction	3		Music Performance*	4
MUS 131/131L	Theory I and Lab	4		Music Electives**	7
				Total	21

*Chosen from the following performance ensembles: MUS 102, 103, 104(01), 104(02), 105, 106, 108, 109, 124

**Chosen from the following courses: MUS 117, 118, 215, 216, 311, 312, 315r, 319A, 319B, 321, 322, 336, 413, 419, 420, 423, 424, 437

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 316	Vocal Pedagogy	1
MUS 103/303	Choir	4	MUS 331	Teaching Music in the Elem Schools	3
MUS 117	Piano Class I	1*	MUS 437	Music History I	3
MUS 118	Piano Class II	1*	MUS 438	Music History II	3
MUS 131 & 131L	Theory I Lab	4			
				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 Credit 1 hour
Open to all students and community members. This ensemble gives a minimum of one concert performance each semester.

MUS 017 Opera Workshop Credit 1 hour
Open to all students who qualify through audition.

- MUS 018 Community Band Credit 1 hour**
Open to all students and community members. This ensemble gives a minimum of one concert performance each semester.
- MUS 101 Student Recital No Credit**
Registration is required each semester for music majors and minors, and students enrolled in private instruction.
- MUS 102 Wind Ensemble Credit 1 hour**
Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.
- MUS 103 Choir Credit 1 hour**
Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.
- MUS 104 Vocal Ensemble Credit 1 hour**
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.
- MUS 105 Jazz Ensemble Credit 1 hour**
Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.
- MUS 106 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.
- MUS 107 Woodwind Ensemble Credit 1 hour**
Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.
- MUS 108 Brass Ensemble Credit 1 hour**
Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.
- MUS 109 Percussion Ensemble Credit 1 hour**
Open to all students who qualify through audition. This ensemble gives a minimum of one concert performance each semester.
- MUS 110 Keyboard Ensemble Credit 1 hour**
Participation in music ensembles is open to all qualified students. Students must audition.
- MUS 112 Music Fundamentals Credit 2 hours**
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.)
- MUS 115 Private Instruction Credit 1 hour**
Individual instruction in piano, organ, voice, percussion, brass instruments, woodwind instruments, and stringed instruments. Student must enroll simultaneously in MUS 101 Student Recital.

MUS 116 Introduction to Piano Class Credit 1 hour

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 Credit 1 hour

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 Credit 1 hour

Continuation of MUS 117. Further development 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 Credit 3 hours

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 Credit 1 hour

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 Credit 3 hours

Continuation of MUS 131. Must be taken concurrently with MUS 132L. Prerequisite: MUS 131.

MUS 132L Theory II Laboratory Credit 1 hour

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 Credit 1 hour

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 Credit 1 hour

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 Credit 3 hours

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 Credit 1 hour

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 Credit 3 hours

Continuation of MUS 231. Must be taken concurrently with MUS 232L. Prerequisite: MUS 231.

MUS 232L Theory IV Laboratory Credit 1 hour

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, resonance, 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 Stage Combat, Scene Painting, or Acting for the Camera)	3	
TH 237	Beginning Directing	3				
					Core Total	35

Performance/Directing Option

Core Requirements	35	Electives to be selected from TH 334, 339, 340/440, 359, 434, 435, 437	19	
			Total	54

Technical/Design Option

Core Requirements	35	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 from Stage Combat, Scene Painting, or Acting for the Camera)	3	
TH 234	Audition Techniques & Practices	2				
TH 237	Beginning Directing	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 **Credit 1 hour**
Participation in theatre department productions. Repeatable up to four (4) hours.

TH 134 Principles of Acting **Credit 3 hours**
Study of the principles and techniques of acting with practice in improvisation, monologues, and scene work.

- 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 includes: 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

AGRI 132 Intro to Animal Science 4	AGRI 337 Applied Animal Nutrition 3
AGRI 141 Introduction to Plant Science 3	AGRI 339 & 339L Range Plant Ident & Lab 3
AGRI 234 & 234L Prin of Animal Nutrition & Lab 3	AGRI 343 & 343L Veg Invent & Analysis & Lab 3
AGRI 242 & 242L Prin of Range & Forage Mgmt & Lab. 4	AGRI 350 Range Livestock Production 3
AGRI 245 & 245L Prin of Soil Science & Lab 4	AGRI 410 Agriculture Seminar 1
AGRI 334 Range Improvement Practices 3	AGRI 434 Land Resource Mgmt Planning 3
	Core Total <u>37</u>

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.

Core 37	BIOL 438 & 438L Taxonomy of Plants & Lab 3
AGRI 235 Intro to Wildlife Management 3	BIOL 439 & 439L Plant Physiology & Lab 3
AGRI 345 Range and Fire Ecology 3	ECON 334 Agricultural Econ & Agribusiness 3
BIOL 336 & 336L General Ecology & Lab 3	AGRON 477 Great Plains Pedology 4*
	Total <u>59</u>

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.

Core	37	Animal Science Electives from list below	9
AGRI 331 Farm and Ranch Management	3	Business Electives from list below	9
		Total	58

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 RANGELAND 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	Total	21

Electives: AGRI 431, ECON 334, 338, 434, FIN 335.

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	Animal Anatomy/Physiology to be selected from list below	3
AGRI 337 Applied Animal Nutrition	3	Total	20

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 <u>21</u>

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 <u>21</u>

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.

- AGRI 245L Principles of Soil Science Laboratory** **Credit 1 hour**
Lab experience. Must be taken concurrently with AGRI 245.
- AGRI 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.
- AGRI 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 BIOL 325. Prerequisite: Sophomore status or permission of Instructor and Dean.
- AGRI 331 Farm and Ranch Management** **Credit 3 hours**
The skills, techniques, innovations, and current procedures for management of farms and ranches.
- AGRI 333 Beef Production** **Credit 3 hours**
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.
- AGRI 333L Beef Production Laboratory** **Credit 1 hour**
Lab experience. Must be taken concurrently with AGRI 333.
- AGRI 334 Range Improvement Practices** **Credit 3 hours**
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.
- AGRI 335 Horse Production** **Credit 3 hours**
Principles and practices related to modern horse production including breeding, housing, foot and leg care, equipment, and history.
- AGRI 336 Sheep Production** **Credit 3 hours**
Principles and practices of commercial and purebred sheep production including breeds, breeding and reproduction, diseases, marketing, management, and general husbandry.
- AGRI 337 Applied Animal Nutrition** **Credit 3 hours**
Characteristics of basic feedstuffs and recommended feeding practices utilizing ration development, feeding trials, and feed analysis.
- AGRI 338 Livestock Evaluation** **Credit 3 hours**
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.
- AGRI 339 Range Plant Identification** **Credit 1 hour**
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.
- AGRI 339L Range Plant Identification Lab** **Credit 2 hours**
Lab experience. Must be taken concurrently with AGRI 339.
- AGRI 340 Computer Applications in Agriculture** **Credit 3 hours**
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.

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 Mammology 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 Mammology 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.

CTE 431/531 Intro to Spec Needs Prog in CTE	3	1000 hours verified work experience	
CTE 434/534 Prin & Phil of CTE	3	OR	
CTE 438/538 Coord in Occup. Trng Prog	3	CTE 390 or 690 Internship	6
		Total	15

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 533	Occ Guide For Learners with	
CTE 532	Prog. for Special Needs Pop		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

FCS 122	Perspectives in Family & Con. Sci	2	FCS 390	Internship	
FCS 123	Principles of Apparel	2		OR	
FCS 139	Child Growth and Development	3	FCS 448/448L	Early Childhood Practicum & Lab	4
FCS 320	Aging and Death	3	FCS 422	Professional Career Development	2
FCS 331	Family Systems Management	3	FCS 424	Housing Issues	2
FCS 332	Family Studies	3	FCS 435	Consumer Science	3
FCS 337	Nutrition	3			
				Core Total	30

Child Development Option

Core Requirements		30	FCS 321a	Curriculum Development in FCS	2
FCS 235	Food Production		FCS 423	Program Management	3
	OR		EDUC 231	Play, Art, Music for Early Childhood	3
FCS 236	Food Mgmt & Service	3	EDUC 232	Sci, Math, and Soc. Sci. for Early Child	
FCS 237	Guidance Tech in Human Relations	3		OR	
FCS 238	Prenatal & Infant Development	3	EDUC 233	Lit & Lang Arts For Early Childhood	3
FCS 239	Partners in Early Childhood Education ..	3	PSYC 336	Adolescent Psychology	3
				Total	56

NOTE: Students selecting this option must complete FCS 448 and FCS 448L in core requirements.

Design & Merchandising Option

Core Requirements		30	FCS 333	Home and Hospitality Technology	3
FCS 135	Alteration & Construction Tech	3	FCS 341	Textiles	4
FCS 224	Housing and Interior Design	2	MKTG 231	Principles of Marketing	3
FCS 329a	Patternmaking	2	ITE 233	Graphic Communications Systems	
FCS 329b	Historic Fashion & Costumes	2		OR	
FCS 329d	Visual Display/Production	2	ITE 237	Computer Aided Drafting	3
FCS 324	Interior Environments	2			
				Total	56

Hospitality Management Option

Core Courses	30	ACTG 241	Principles of Accounting I	3	
FCS 235	Food Production	3	BA 337	Business Law I.....	3
FCS 236	Food Management and Service	3	MGMT 230	Principles of Management	3
FCS 329d	Visual Display/Production	2	MGMT 330	Organizational Theory & Behavior	3
FCS 333	Home and Hospitality Technology	3	MGMT 430	Human Resource Management	3
				Total	56

Human Services Option

Core Requirements	30	HPER 431	Community & Environment Health	3	
FCS 234	Human Services	3	LS 236	Family Law	3
FCS 335	Families in Society	3	PSYC 131	General Psychology	3
FCS 434	Sem in Current Issues in Human Ser	2	PSYC 334	Developmental Psychology	3
FCS 437	Family Strengths	3	CTE 431	Intro. to Special Needs Prog in CTE	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 448/448L	Early Childhood Practicum & Lab	4
FCS 239	Partners in Early Child Educ		EDUC 231	Play, Art & Music for Early Childhood ..	3
	OR		EDUC 232	Sci, Math & Soc Sci for Early Child	3
SPED 232	Interper Comm Skills for SPED	3	EDUC 233	Lit & Lang Arts for Early Childhood	3
FCS 237	Guidance Tech in Human Relations		EDUC 321	Teaching Elem/MS Math	2
	OR		SPED 231	Survey of Effects of M/M Disability	3
SPED 331	Behavior Interventions.....	3	SPED 332	Language & Learning Disorders	3
FCS 238	Prenatal & Infant Development	3	SPED 337	Program Dev, Implem, & Eval	3
FCS 321a	Curriculum Development	3	SPED 416	Clinical Exp in Appr Except Child	1
FCS 423	Program Management	3	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 417	Teach Reading Diagnosis	1
EDUC 414	Classroom Mgmt	1	EDUC 422	Teach Elem/MS Science & Health	2
EDUC 415	Human Relations/Multicultural	1	EDUC 423	Teach Primary Reading	2
EDUC 416	Elem/MS Assessment	1	EDUC 424	Teach Interm. 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:

FCS 122	Perspectives in Family & Con. Sci	2	FCS 332	Family Studies	3
FCS 123	Principles of Apparel	2	FCS 333	Home & Hospitality Technology	3
FCS 135	Alteration & Construction Tech	3	FCS 337	Nutrition	3
FCS 139	Child Growth and Development	3	FCS 341	Textiles	4
FCS 224	Housing and Interior Design	2	FCS 421	Organization & Admin of FCS	2
FCS 235	Food Production	3	FCS 422	Professional Career Development	2
FCS 236	Food Management & Service	3	FCS 424	Housing Issues	2
FCS 320	Aging and Death	3	FCS 435	Consumer Science	3
FCS 321b	Curriculum Development in FCS	2	CTE 431	Intro to Special Needs Prog in CTE	3
FCS 324	Interior Environments	2	CTE 434	Prin & Philosophy of CTE	3
FCS 331	Family Systems Management	3			
					Total <u>56</u>

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.

FCS 139	Child Growth and Development	3	FCS 332	Family Studies	3
FCS 236	Food Mgmt and Service	3	FCS 337	Nutrition	3
FCS 331	Family Systems Management	3	FCS 435	Consumer Science	3
					Total <u>18</u>

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

FCS 139	Child Growth and Development	3	FCS 331	Family Systems Management	3
FCS 237	Guidance Tech in Human Relations	3	FCS 332	Family Studies	3
FCS 238	Prenatal & Infant Development	3	FCS 437	Family Strengths	3
FCS 320	Aging and Death	3			Total <u>21</u>

Nutrition and Food Minor

FCS 235	Food Production	3	FCS 333	Home & Hospitality Technology	3
FCS 236	Food Management & Service	3	FCS 337	Nutrition	3
FCS 331	Family Systems Management	3	FCS 436	Global Food Systems	3
					Total <u>18</u>

Textiles and Fashion Minor

FCS 123	Principles of Fashion	2	FCS 329b	Historic Fashion & Costumes	2
FCS 135	Alteration & Construction Tech	3	FCS 329d	Visual Display/Production	2
FCS 329a	Patternmaking	2	FCS 341	Textiles	4
			MKTG 231	Principles of Marketing	3
					Total <u>18</u>

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, merchandizing, 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.

FCS 423 Program Management Credit 3 hours

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.

FCS 424 Housing Issues Credit 2 hours

Current issues regarding social, political, and economic factors as related to family housing are investigated through research and discussion. Seminar style.

FCS 434 Seminar in Current Issues in Human Services Credit 2 hours

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.

FCS 435 Consumer Science Credit 3 hours

Goods and services available to the individual or family including information analysis, consumer communication skills, commodity exchanges, and merchandise standardization.

FCS 436 Global Food Systems Credit 3 hours

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.

FCS 437 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 440 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 448 Early Childhood Practicum Credit 3 hours

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.

FCS 448L Early Childhood Practicum Laboratory Credit 1 hour

Accompanies FCS 448. Concurrent enrollment in FCS 448 required.

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.

ACTG 241	Accounting Principles I	3	ITE 345k	Industrial and Commercial Wiring	3
ITE 230	Electrical and Electronic Systems	3	ITE 432	Quality Assurance/Quality Control	3
ITE 232	Manufacturing Processes & Systems	3	ITE 433	Occupational Safety	3
ITE 233	Graphic Communication Systems	3	ITE 434	Automated Manufacturing	3
ITE 235	Construction Systems	3	ITE 437	Kinematics and Machine Design	
ITE 237	Computer Aided Drafting	3		OR	
ITE 239	Energy, Power and Trans Systems.	3	ITE 360c	Architectural Design	
ITE 335a	Construction Processes	3		AND	
ITE 337	Computer Aided Design Drafting	3	ITE 440	Special Topics: Construction	3**
ITE 339	Hydraulics and Pneumatics.	3	MGMT 230	Principles of Management	3
ITE 341	Plant & Lab Design and Management. ...	3	MIS 332	Decision Support Systems	3
ITE 345e	Industrial Electronics	3		Total	57

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:

ITE 230	Electrical and Electronic Systems	3	ITE 345d	Digital Electronics	
ITE 232	Manufacturing Processes and Systems ...	3		OR	
ITE 233	Graphic Communication Systems	3	CTE 431	Intro to Special Needs Prog in CTE	
ITE 235	Construction Systems	3		OR	
ITE 237	Computer Aided Drafting	3	CTE 438	Coordination in Occupation Trng	3
ITE 239	Energy, Power & Transportation		ITE 345e	Industrial Electronics	3
	Systems	3	ITE 345k	Industrial & Commercial Wiring	3
ITE 335a	Construction Processes	3	ITE 432	Quality Assurance/Quality Control	3
ITE 337	Computer Aided Design Drafting	3	ITE 433	Occupational Safety	3
ITE 339	Hydraulics and Pneumatics	3	ITE 434	Automated Manufacturing	3
ITE 341	Plant & Lab Design and Management	3	CTE 434	Prin & Philosophy of CTE	3
				Total	51

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.

ITE 230	Electrical and Electronic Systems	3	ITE 432	Quality Assurance/Quality Control	3	
ITE 232	Manufacturing Processes and Systems ...	3	ITE 433	Occupational Safety	3	
ITE 233	Graphic Communication Systems	3	ITE 434	Automated Manufacturing	3	
ITE 235	Construction Systems	3	CTE 431	Intro to Special Needs Prog in CTE	3	
ITE 237	Computer Aided Drafting	3	CTE 434	Prin & Phil of CTE	3	
ITE 239	Energy, Power & Transportation Sys	3	CTE 438	Coord in Occupation Trng Programs	3	
ITE 341	Plant & Lab Design and Management	3	ITE Electives in an area of specialization	12		
					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:

ITE 230	Electrical & Electronic Systems	3	ITE 235	Construction Systems	3	
ITE 232	Manufacturing Processes & Systems	3	ITE 341	Plant & Lab Design and Management	3	
ITE 233	Graphic Communications Systems		ITE 433	Occupational Safety	3	
					OR	Total
ITE 237	Computer Aided Drafting	3				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.

CJ 435	Drugs, Alcohol and Crime	3	ITE 433	Occupational Safety	3	
ITE 336	Traffic Safety I	3	ITE 436	Traffic Safety II	3	
					Total	12

MINORS IN INDUSTRIAL TECHNOLOGY

Drafting Minor

ITE 233	Graphic Communications Systems	3	ITE 360c	Architectural Design	2	
ITE 237	Computer Aided Drafting	3	ITE 360h	Topographical Mining and Highway	2	
ITE 337	Computer Aided Design Drafting	3	ITE 360l	Landscape Planning	2	
ITE 360b	Residential Planning	3	ITE 437	Kinematics and Machine Design	3	
					Total	21

Electronics Minor

ITE 201	CISCI CCNP I		ITE 345d	Digital Electronics	3	
					OR	Total
IST 431	Computer Networks	3	ITE 345e	Industrial Electronics	3	
ITE 230	Electrical and Electronic Systems	3	ITE 345k	Industrial & Commercial Wiring	3	
ITE 239	Energy, Power and Trans Sys	3	ITE 445	Microprocessors Applications	3	
					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 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.

ACTG 241	Accounting Principles I	3	FIN 330	Business Finance I	3	
ACTG 242	Accounting Principles II	3	MGMT 230	Principles of Management	3	
B A 336	Business & Economic Statistics	3	MGMT 434	Strategic Management	3	
B A 337	Business Law I.....	3	MIS 130	Principles of Information Systems	3	
ECON 231	Macroeconomics	3	MIS 332	Decision Support Systems	3	
ECON 232	Microeconomics	3	MKTG 231	Principles of Marketing	3	
					Total	<u>36</u>

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

ACTG 241	Accounting Principles I	3	FIN 330	Business Finance I	3	
ACTG 242	Accounting Principles II	3	MGMT 230	Principles of Management	3	
B A 336	Business and Economic Statistics	3	MGMT 434	Strategic Management	3	
B A 337	Business Law I.....	3	MIS 130	Principles of Information Systems	3	
ECON 231	Macroeconomics	3	MIS 332	Decision Support Systems	3	
ECON 232	Microeconomics	3	MKTG 231	Principles of Marketing	3	
					Core Total	<u>36</u>

Students pursuing a degree in business are encouraged to complete an internship in business during their junior and senior year.

Accounting Option

Core Requirements	36	ACTG 342	Intermediate Accounting II	3		
ACTG 332	Accounting Information Systems	3	ACTG 430	Personal Income Tax	3	
ACTG 337	Cost Accounting	3	ACTG 431	Corporate/Fiduciary Tax	3	
ACTG 341	Intermediate Accounting I	3	ACTG 438	Auditing	3	
					Total	<u>57</u>

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

BA Degree: Core Requirements	36	ACTG 438 Auditing	3
ACTG 332 Accounting Information Systems	3	ACTG 443 Advanced Accounting	3
ACTG 337 Cost Accounting	3		
ACTG 341 Intermediate Accounting I	3	Additional Business Courses:	
ACTG 342 Intermediate Accounting II	3	BA 241 Quantitative Methods	3
ACTG 343 Intermediate Accounting III	3	BA 431 Professional Ethics	3
ACTG 430 Personal Income Tax	3	BA 432 Business Law II	3
ACTG 431 Corporate/Fiduciary Tax	3	General Studies	47
ACTG 433 Government/Not-for-Profit Actg	3	Electives ⁽¹⁾	28
		Total	150

Recommended: ⁽¹⁾MBA Degree

Agri-Business Option

Core Requirements	36	ECON 334 Agricultural Econ. & Agribusiness	3
AGRI 132 Intro to Animal Science	4	ECON 338 Agricultural Marketing	3
AGRI 141 Intro to Plant Science	3	ECON 434 National Agricultural Policy	3
AGRI 410 Agriculture Seminar	1	FIN 335 Agricultural Finance	3
		Total	56

Recommended Electives: In order to enhance employment opportunities, the following electives are recommended: AGRI 234, 242, 245, 331, 332, 333; ECON 331; FIN 432.

Economics/Finance Option

Core Requirements	36	FIN 331 Financial Markets & Institutions	3
B A 241 Quantitative Methods	3	FIN 339 Personal Finance	3
ECON 331 Money and Banking	3	FIN 432 Business Finance II	3
ECON 425 Intermediate Economics Analysis	3	FIN 439 Investments	3
		Total	57

Management Option

Core Requirements	36	FIN 432 Business Finance II	3
ACTG 337 Cost Accounting	3	MGMT 330 Organizational Theory & Behavior	3
B A 241 Quantitative Methods	3	MGMT 430 Human Resource Management	3
B A 432 Business Law II	3	MGMT 432 Production & Operations Management ..	3
		Total	57

Management Information Systems Option

Core Requirements	36	MIS 330 Applied Information Processing	3
ACTG 332 Accounting Information Systems	3	MIS 331 Database Management	3
IST 230 Introduction to Internet Applications	3	MIS 337 E-Commerce	3
MIS 235 Business Programming	3	MIS 431 Systems Analysis and Design	3
		Total	57

Marketing Option

Core Requirements	36	MKTG 338 Buyer Behavior	3
MKTG 331 Sales Techniques	3	MKTG 435 Business and Marketing Strategy	3
MKTG 433 Retailing	3	MKTG 437 Services Marketing & Management	3
MKTG 336 Advertising	3	MKTG 439 Business and Marketing Research	3
		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	
B A 331	Business Communications	3	MGMT 230	Principles of Management	3	
B A 336	Business and Economic Statistics	3	MGMT 434	Strategic Management	3	
B A 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

ACTG 241	Accounting Principles I	3	MGMT 230	Principles of Management	3	
ACTG 242	Accounting Principles II	3	MIS 332	Decision Support Systems	3	
B A 337	Business Law I.....	3	MKTG 231	Principles of Marketing	3	
ECON 232	Microeconomics	3			Total	21

Economics/Finance Minor

ACTG 241	Accounting Principles I	3	ECON 331	Money and Banking	3	
B A 336	Business and Economic Statistics	3	ECON 425	Intermediate Economics Analysis.....	3	
ECON 231	Macroeconomics	3	FIN 330	Business Finance I	3	
ECON 232	Microeconomics	3			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

MIS 130	Principles of Information Systems	3	MIS 332	Decision Support Systems	3
MIS 235	Business Programming	3	MIS 337	E-Commerce	3
MIS 330	Applied Information Processing	3	MIS 431	Systems Analysis & Design	3
MIS 331	Database Management	3			
				Total	21

Marketing Minor

B A 336	Business & Economic Statistics	3	MKTG 336	Advertising	3
MKTG 231	Principles of Marketing	3	MKTG 338	Buyer Behavior	3
MKTG 331	Sales Techniques		MKTG 437	Services Marketing & Management	3
	OR		MKTG 439	Business & Marketing Research	3
MKTG 433	Retailing	3			
				Total	21

COURSE DESCRIPTIONS

Accounting

ACTG 241 Accounting Principles I Credit 3 hours

Introduction to the process of recording financial data and preparing periodic financial statements and special reports for the sole proprietorship and partnership.

ACTG 242 Accounting Principles II Credit 3 hours

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.

ACTG 332 Accounting Information Systems Credit 3 hours

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.

ACTG 337 Cost Accounting Credit 3 hours

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.

ACTG 341 Intermediate Accounting I Credit 3 hours

Investigates theoretical accounting concepts relating to financial statement preparation and an indepth study of accounting concepts related to assets. Prerequisites: ACTG 242 or equivalent.

ACTG 342 Intermediate Accounting II Credit 3 hours

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.

ACTG 343 Intermediate Accounting III Credit 3 hours

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.

ACTG 430 Personal Income Tax Credit 3 hours

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.

ACTG 431 Corporate/Fiduciary Tax Credit 3 hours

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 Credit 3 hours

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 Credit 3 hours

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 Credit 3 hours

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 Credit 3 hours

Selected topics on specialized areas and/or contemporary issues in accounting.

Business Administration

B A 241 Quantitative Methods Credit 3 hours

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 Credit 1-6 hours

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 Credit 3 hours

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 Credit 3 hours

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 Credit 3 hours

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 Credit 1-12 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.

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 equivalencies.

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:

PSYC 131	General Psychology	3	PSYC 334	Development Psychology	3	
PSYC 233	Psychology of Addiction	3	PSYC 390	Internship in Psychology	3	
PSYC 234	Cognitive Psychology	3	PSYC 421	Culture and Psychology	3	
PSYC 331	Social Psychology		PSYC 430	Intro to Physiological Psychology	3	
	OR		PSYC 432	Research Design in Psychology	3	
PSYC 434	Organizational Psychology	3	PSYC 433	Abnormal Psychology		
PSYC 332	Child Psychology			OR		
	OR		PSYC 435	Theories of Personality	3	
PSYC 336	Adolescent Psychology	3	PSYC 438	Intro to Behavioral Statistics	3	
					Total	36

MINORS IN PSYCHOLOGY

Addictions

PSYC 233	Psychology of Addiction	3	PSYC 432	Research Design in Psychology	3	
PSYC 332	Child Psychology		PSYC 435	Theories of Personality	3	
	OR		PSYC 437	Case Mgmt & Interviewing Model	3	
PSYC 334	Developmental Psychology	3	PSYC 439	Group Processes	3	
PSYC 421	Culture & Psychology	3	Total			21

Psychology

PSYC 131	General Psychology	3	PSYC 332	Child Psychology		
PSYC 234	Cognitive Psychology	3		OR		
PSYC 331	Social Psychology		PSYC 336	Adolescent Psychology	3	
	OR		PSYC 334	Developmental Psychology	3	
PSYC 422	Psyc Factors in Productivity & Creativity	3	PSYC 432	Research Design in Psychology	3	
					* 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.

PSYC 400 Independent Research or Study Credit 1-3 hours

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.

PSYC 401 Topics in Psychology Credit 1-3 hours

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.

PSYC 421 Culture and Psychology Credit 3 hours

The impact of culture on behavioral and psychological processes, with analysis of some of the antecedents of cross-cultural conflicts. Prerequisite: PSYC 131.

PSYC 422 Psychological Factors in Productivity and Creativity Credit 3 hours

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.

PSYC 430 Introduction to Physiological Psychology Credit 3 hours

Surveys neural morphology and physiology and addresses biology's multifaceted role in fundamental psychological processes. Prerequisite: PSYC 131.

PSYC 432 Research Design in Psychology Credit 3 hours

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.

PSYC 433 Abnormal Psychology Credit 3 hours

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.

PSYC 434 Organizational Psychology Credit 3 hours

Examines work-group behavior, developing individuals in organizations, appropriate supervisory behavior, inter-group 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.

PSYC 435 Theories of Personality Credit 3 hours

Major theoretical orientations and research findings in personality psychology. Prerequisite: PSYC 131.

PSYC 437 Case Management and Interviewing Model Credit 3 hours

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.

PSYC 438 Introduction to Behavioral Statistics Credit 3 hours

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.

PSYC 439 Group Processes Credit 3 hours

Practice and theory supporting group work of many types taught through lectures and experiences. Prerequisite: PSYC 131.

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.
5. Completion of SW 231, Introduction to Social Work.

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 outline 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.

BIOL 121 & 121L Human Anat & Phys & Lab	3	SW 337	Human Behavior in the Social Environment II	3
PSYC 131 General Psychology	3	SW 432	Social Work Practice & Methods I	3
SOC 231 Introduction to Sociology	3	SW 433	Social Work Practice & Methods II	3
SOC 343 Research Methodology	3	SW 434	Social Welfare Policy II	3
SW 231 Introduction to Social Work	3	SW 435	Social Work Practice & Methods III	3
SW 333 Human Diversity	3	SW 460	Social Work Practicum I	4
SW 334 Social Welfare Policy I	3	SW 461	Social Work Practicum II	4
SW 336 Human Behavior in the Soc Environ I....	3		Electives to be selected from list below	9
			Total	56

***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 Able 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 | • Assessment |
| • Thinking Skills | • Human Relations and Diversity |
| • Methodology/Technology | • 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"):

EDUC 131	Intro to Teaching	3	PSYC 231	Educ Psychology	3	
EDUC 224	Multimedia Support of Instruction/Learning	2	SPED 230	Intro Except Learner	3	
EDUC 300	Secondary Obs. Participation.....	1-3	At least one subject or field endorsement		30-66	
					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.

EDUC 411	Reading in the Content Areas	1	EDUC 418	Secondary Assessment	1
EDUC 412	General Methods	1	*EDUC 431(A-S)	Special Methods	3
EDUC 414	Classroom Mgmt	1	Student Teaching**	.....	16
EDUC 415	Human Relations/Multicultural	1			Total 24

*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)

Art	Economics	Library Media Specialist*
Biology	English	Mathematics
Business	Family and Consumer Sciences	Music
Chemistry	Foreign Language - Spanish	Natural Science
Coaching*	Health and Physical Ed.	Physical Science
Cooperative Education*	History	Physics
Diversified Occupations	Industrial Technology	Social Science
Driver Education*	Information Technology*	Special Education
Earth Science	Language Arts	Theatre
		Vocational Special Needs*

*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"):

EDUC 131	Intro to Teaching	3	PSYC 231	Ed Psychology	3
EDUC 224	Multimedia Support Instr/Learning	2	PSYC 336	Adolescent Psychology	3
EDUC 320	Elementary/MS Obs. & Participation	2	SPED 230	Intro Exceptional Learner	3
*EDUC 431 (A-L)	Special Methods	6	One (1) Elementary Methods course, from below	.....	2-3
EDUC 433	The Middle School	3	Content Area of Specialization from below	.....	36
					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.

ART 334	Art for Elem. Teacher	3	EDUC 323	Teach Elem/MS Social Studies	2
EDUC 321	Teach Elem/MS Mathematics	2	HPER 339	Theory of Physical Educ K-8	3
EDUC 322	Teach Elem/MS Language Arts	2	MUS 333	Music for the Classroom Teacher	3

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 | Mathematics |
| Health and Physical Education | Natural Sciences |
| Industrial Technology | Social Science |
| Language Arts | |

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.

EDUC 413	Elem/MS Curric. & Counseling	1	EDUC 422	Teach Elem/MS Science & Health	2
EDUC 414	Classroom Mgmt	1	EDUC 423	Teach Primary Reading	2
EDUC 415	Human Relations/Multicultural	1	EDUC 424	Teach Intern. Reading	2
EDUC 416	Elem/MS Assessment	1	Student Teaching *	.....	16
EDUC 417	Teach Reading Diagnosis	1			
				Total	27

*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"):

ART 334	Art for Elem Teacher	3	ENG 235	Children's Lit.	3
EDUC 131	Intro to Teaching	3	HPER 339	Theory of Physical Educ K-8	3
EDUC 224	Multimedia Support of Instruction/Learning	2	MATH 235	Math for the Elem. Teacher I	3
EDUC 320	Elem/MS Obs & Participation	2	*MATH 335	Math for the Elem Teacher II	3
EDUC 321	Teach Elem/MS Mathematics	2	MUS 333	Music for Classroom Teacher	3
EDUC 322	Teach Elem/MS Language Arts	2	PSYC 231	Ed Psychology	3
EDUC 323	Teach Elem/MS Social Studies	2	PSYC 334	Developmental Psychology	3
			SPED 230	Intro Except Learner	3
				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.

- | | |
|--------------------------------|----------------------------|
| Art | Mild/Moderate Disabilities |
| Early Childhood | Physical Education |
| English | Science |
| Information Technology | Social Science |
| Library Information Management | Special Education |
| Mathematics | Vocal Music |



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 422	Teach Elem/MS Science & Health	2
EDUC 414	Classroom Mgmt	1	EDUC 423	Teach Primary Reading	2
EDUC 415	Human Relations/Multicultural	1	EDUC 424	Teach Interm. Reading	2
EDUC 416	Elem/MS Assessment	1	Student Teaching*	.....	16
EDUC 417	Teach Reading Diagnosis	1			Total
					27

*The following courses can be taken only upon completion of the above courses (minimum G.P.A. of 2.50 required):

EDUC 480I	Student Teaching Intermediate	EDUC 480P	Student Teaching Primary
EDUC 480K	Student Teaching K-12	EDUC 480R	Student Teaching M/M Handicapped
EDUC 480L	Student Teaching K-6	EDUC 480V	Student Teaching M/M K-12

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.

EDUC 231	Play, Art & Music for Early Childhood ..	3	FCS 321	Curr Dev in Family & Con Sci Educ.	2
EDUC 232	Sci., Math & Soc. Sci. for Early Child ...	3	FCS 332	Family Studies	
EDUC 233	Lit. & Lang. Arts for Early Childhood ...	3		OR	
FCS 139	Child Growth & Development	3	FCS 335	Families in Society	3
FCS 237	Guid. Tech. In Human Relations	3	FCS 423	Program Mgmt	3
FCS 238	Prenatal and Infant Develop.	3	FCS 448	Early Childhood Practicum	4
FCS 239	Parenting in a Contemp. Society	3			Total
					33

MINOR in Early Childhood Education (K-8)

EDUC 231	Play, Art & Music for Early Childhood ..	3	FCS 239	Partners in Early Childhood Educ	3
EDUC 232	Sci., Math & Soc. Sci. for Early Child ...	3	FCS 321	Curr Dev in Family & Con Sci Educ.	2
EDUC 233	Lit. & Lang. Arts for Early Childhood ...	3	FCS 423	Program Management	3
FCS 139	Child Growth and Development	3	FCS 448	Early Childhood Practicum	4
FCS 237	Guid. Tech. in Human Relations	3			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).

CTE 431	Intro. to Special Needs Prog in CTE	3	SPED 331	Behavior Interventions	3
HPER 422	Intro to Adapted PE	3	SPED 332	Lang. and Learning Disorders	3
PSYC 336	Adolescent Psychology	3	SPED 335	Elem./Sec. Meth. Mat. M/M Dis.	4
SPED 230	Intro to the Excep. Learner	3	SPED 337	Program Dev., Imp. & Eval	3
SPED 231	Survey of Effects of M/M Disab.	3	SPED 416	Clinical Exp. in Appr. Exc. Child	1
SPED 232	Interper. Comm Skills for SPED	3	SPED 435	Assess. Individ. with M/M Disab.	3
SPED 316e	Microteach Elem/Middle School	1	SPED 438	Consultation/Collaboration	3
SPED 316s	Microteach Secondary Special Ed	1			
				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	PSYC 334	Developmental Psychology	3
EDUC 224	Multimedia Support of Instruction/Learning	2	SPED 230	Intro Except Learner	3
EDUC 320	Elem/MS Obs & Participation	2		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	FCS 448	Early Childhood Practicum	4
EDUC 232	Sci, Math & Soc Stu for Early Child	3	SPED 230	Intro to Except Learner	3
EDUC 233	Lit & Language Arts for Early Child	3	SPED 231	Survey & Effects of M/M Disability	3
EDUC 321	Teach Elem/MS Math	2	SPED 232	Interpersonal Communication Skills OR	
FCS 139	Child Growth and Development	3	FCS 239	Partners in Early Child Educ	3
FCS 237	Guidance Tech Human Relations OR		SPED 316	Micro Teaching in Preschool	1
SPED 331	Behavior Interventions	3	SPED 332	Language & Learning Disorders	3
FCS 238	Prenatal & Infant Development	3	SPED 337	Program Dev, Implem, & Mgmt	3
FCS 321a	Curriculum Development	2	SPED 416	Clinical Exp – Except Child	1
FCS 423	Program Management	3	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 417	Teach Reading Diagnosis	1
EDUC 414	Classroom Mgmt	1	EDUC 422	Teach Elem/MS Science & Health	2
EDUC 415	Human Relations/Multicultural	1	EDUC 423	Teach Primary Reading	2
EDUC 416	Elem/MS Assessment	1	EDUC 424	Teach Interm. 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 331	Behavior Interventions	3
SPED 231	Survey and Effects of M/M Disab.	3	SPED 332	Language & Learning Disorders	3
SPED 232	Interpersonal Comm. Skills	3	SPED 335	Elem/Sec Methods & Materials	4
SPED 316	Microteach Pre/Elem/Middle School	1	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:

BA 331	Business Communications	3	HPER 314	Water Safety Instruction	1
HPER 102	Riflery/Skeet & Trap Shooting	1	HPER 333	Leadership in Recreation	3
HPER 114	Canoeing/Casting & Angling	2	HPER 335	Org & Admin of HPER	3
HPER 119	Aerobics	1	HPER 421	Phil & Psyc Found of Sport	2
HPER 124 &	124L Anatomical Kinesiology & Lab	2	HPER 422	Introduction to Adapted PE	3
HPER 203	Orienteering & Backpacking	1	HPER 436	Outdoor Education	3
HPER 216	Weight Training	1	HPER 437	Sport Law	3
HPER 217	Red Cross Lifeguard Training	1	HPER 439 &	439L Biomechanics of Sports & Lab	3
HPER 220	Theory of Coaching	2	HPER 440	Prevention & Care of Ath Injuries	3
HPER 221	Camp Counseling	2	HPER 490	Internship	3
HPER 226	Safety & First Aid	2		Electives in Coaching (321, 322, 323, 423, 424, 425, 426)	6
HPER 232 &	232L Phys Kinesiology & Lab	3			
HPER 234	Introduction to Recreation	3			
				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.

FCS 337	Nutrition	3	HPER 325	Teach Indiv & Dual Sports	2
HPER 122	Foundations of HPER	2	HPER 326	Motor Skill Learning	2
HPER 124 & 124L	Anatomical Kinesiology & Lab	2	HPER 335	Organization & Administration of HPER	3
HPER 214	Advanced Swimming		HPER 339	Theory of Physical Education K-8	3
	OR		HPER 422	Intro to Adapted PE	3
*HPER 217	Red Cross Lifeguard Training		HPER 427	Elementary Rhythmics	2
	OR		HPER 428	Curriculum in Health Education	2
*HPER 314	Red Cross Water Safety	1	HPER 429	Basic Movement Education for Children	2
HPER 226	Safety and First Aid	2	HPER 431	Community & Environmental Health	3
*HPER 232 & 232L	Physiological Kinesiology & Lab	3	HPER 432	Tests & Measurements in PE	3
HPER 236	Health Topics	3	HPER 435	Curriculum Planning in PE	3
HPER 312	Apparatus	1	HPER 439 & 439L	Biomechanics of Sports & Lab	3
HPER 313	Tumbling	1	PSYC 131	General Psychology	3
				Total	52

*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.

HPER 122	Foundations of HPER	2	HPER 313	Tumbling	1
HPER 124 & 124L	Anatomical Kinesiology & Lab	2	HPER 326	Motor Skill Learning	2
HPER 214	Advanced Swimming		HPER 335	Org & Admin of HPER	3
	OR		HPER 339	Theory of Physical Education K-8	3
HPER 217	Red Cross Lifeguard Training		HPER 422	Intro to Adapted PE	3
	OR		HPER 427	Elementary Rhythmic	2
HPER 314	Red Cross Water Safety	1	HPER 429	Basic Move Education for Children	2
HPER 226	Safety and First Aid	2	HPER 432	Test & Measurements in PE	3
HPER 232 & 232L	Physiological Kinesiology & Lab	3	HPER 439/439L	Biomechanics of Sports & Lab	3
				Total	32

*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.

HPER 122	Foundations of HPER	2	HPER 313	Tumbling	1
HPER 124 & 124L	Anatomical Kinesiology & Lab	2	HPER 325	Individual & Dual Sports	2
HPER 214	Advanced Swimming		HPER 326	Motor Skill Learning	2
	OR		HPER 335	Org & Admin of HPER	3
*HPER 217	Red Cross Lifeguard Training		HPER 422	Intro to Adapted PE	3
	OR		HPER 427	Elementary Rhythmics	2
*HPER 314	Red Cross Water Safety Inst	1	HPER 432	Tests & Measure. in PE	3
HPER 226	Safety and First Aid	2	HPER 435	Curriculum Planning in PE	3
HPER 232 & 232L	Physiological Kinesiology & Lab	3	HPER 439 & 439L	Biomechanics of Sports & Lab	3
HPER 312	Apparatus	1		Total	33

*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.

FCS 320	Aging and Death	3	HPER 335	Org & Admin of HPER	3
FCS 337	Nutrition	3	HPER 428	Curriculum in Health Education	3
HPER 122	Foundations of HPER	2	HPER 431	Community & Environmental Health	3
HPER 124 & 124L	Anatomical Kinesiology & Lab	2	PSYC 131	General Psychology	3
HPER 226	Safety and First Aid	2	SOC 333	Marriage & Family OR	
HPER 232 & 232L	Physiological Kinesiology & Lab ..	3	FCS 332	Family Studies	3
HPER 236	Health Topics	3			
					Total <u>33</u>

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.

HPER 226	Safety and First Aid	2	HPER 339	Theory of Physical Education K-8	3
HPER 313	Tumbling	1	HPER 422	Intro to Adapted PE	3
HPER 326	Motor Skill Learning	2	HPER 432	Tests & Measure in PE	3
HPER 335	Org & Admin of HPER	3		Elective in Team Sport Activity Classes	1
					Total <u>18</u>

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.

HPER 220	Theory & Principles of Coaching	2	HPER 437	Sport Law	3
HPER 226	Safety and First Aid	2	HPER 440	Prevention & Care of Athletic Injuries ...	3
HPER 335	Org & Admin of HPER	3	HPER 490	Internship	2
HPER 421	Philosophical & Psychological Found. of Sport	2		Electives in Coaching (HPER 321, 322, 323, 423, 424, 425, 426)	6
					Total <u>23</u>

MINORS

Fitness and Exercise: Students in Recreation may not take this minor

HPER 122	Foundations of Health & PE	2	HPER 217	Lifeguard Training	1
FCS 337	Nutrition	3	HPER 232 & 232L	Phys Kinesiology & Lab	3
HPER 119	Aerobics	1	HPER 314	Water Safety Instruction	1
HPER 124 & 124L	Anatomical Kinesiology & Lab	2	HPER 439 & 439L	Biomechanics of Sports & Lab	3
HPER 216	Weight Training	1	HPER 490b	Internship	3
					Total <u>20</u>

Leisure Services: Students in Recreation may not take this minor

HPER 122	Foundations of Health & PE	2	HPER 226	Safety & First Aid	2
HPER 102	Riflery/Skeet & Trap Shooting	1	HPER 314	Water Safety Instruction	1
HPER 114	Canoeing/ Casting & Angling	2	HPER 422	Introduction to Adapted PE	3
HPER 203	Orienteering & Backpacking	1	*HPER 436	Outdoor Education	3
HPER 217	Lifeguard Training	1	HPER 490b	Internship	2
HPER 221	Camp Counseling	2			Total <u>20</u>

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, 424, 425, 426)		
HPER 421	Phil & Psyc Foundation of Sport	2			
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		HPER 326	Motor Skill Learning	2
	OR		HPER 335	Org & Admin of HPER	3
*HPER 217	Red Cross Lifeguard Training		HPER 339	Theory of Physical Education K-8	3
	OR		HPER 427	Elementary Rhythmics	2
*HPER 314	Red Cross Water Safety Inst	1	HPER 429	Basic Move Education for Children	2
HPER 226	Safety and First Aid	2	HPER 435	Curriculum Plan in PE	3
					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 Riflery/Skeet and Trap Shooting Credit 1 hour

To develop skills and knowledge of riflery, 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 identifying 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** **Credit 1 hour**
To develop skills and knowledge in the sports of volleyball and soccer.
- HPER 118 Basketball/Softball** **Credit 1 hour**
To develop skills and knowledge in the sports of basketball and softball.
- HPER 119 Aerobic Dance** **Credit 1 hour**
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** **Credit 2 hours**
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** **Credit 1 hour**
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** **Credit 1 hour**
Lab experience. Must be taken in conjunction with HPER 124.
- HPER 134 Introduction to Athletic Training** **Credit 1 hour**
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** **Credit 1 hour**
To develop skills and knowledge of handball.
- HPER 203 Orienteering and Backpacking** **Credit 1 hour**
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** **Credit 1 hour**
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** **Credit 1 hour**
Individualized instruction to accommodate the advanced lifters in Olympic lifting, power lifting, body building, and program development and evaluation.
- HPER 210 Badminton/Archery** **Credit 1 hour**
To develop skills and knowledge of badminton and archery.
- HPER 212 Racquetball** **Credit 1 hour**
To develop the skills and knowledge of racquetball.
- HPER 213 Bowling** **Credit 1 hour**
To develop skills and knowledge of bowling. Additional fees required.
- HPER 214 Advanced Swimming** **Credit 1 hour**
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 Rhythmics** **Credit 2 hours**
Review of rhythmic activities and the methods of teaching rhythmics 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	Mathematics
Career and Technical Education	Physical Education
Education	Reading
Educational Technology	Social Science
Industrial Technology	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

Students taking graduate coursework belong in one of two categories:

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.
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.

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:

Course Level	Prerequisite
500 level	Completion of a baccalaureate degree or within 16 semester hours of graduation for graduate credit, or completion of 90 semester hours for undergraduate credit
600 level	Completion of a baccalaureate degree
700 level	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.

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.

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:

COUN 531 Counseling and Communication Skills 3	COUN 632 Career and Lifestyle Development 3
COUN 532 Treatments Issues in Addiction 3	COUN 633 Internship in Counseling 3*
COUN 533 Ethical and Legal Issues 3	COUN 634 Group Counseling 3
COUN 534 Tests and Measurements 3	COUN 636 Family Counseling 3
COUN 535 Multicultural Counseling 3	COUN 637 Advanced Developmental Psychology ... 3
COUN 536 Foundation of Professional Identity 3	COUN 639A Practicum in Counseling I 3
COUN 541 Counseling Theories 3	COUN 639B Practicum in Counseling II 3
COUN 631 Consultation and Program Development 3	EDCI 631 Introduction to Graduate Studies <u>3</u>
	Total <u>48</u>

*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
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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.

**MASTER OF BUSINESS
ADMINISTRATION**

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	MGMT 620	High Performance Leadership	3
ECON 537	Managerial Economics	3	MGMT 630	Organizational Behavior	3
ECON 630	Modern Econ Theories & Applications	3	MGMT 639	Legal & Social Environment of Bus	3
FIN 631	Managerial Finance	3	MIS 632	Information Systems for Managers	3
			MKTG 630	Marketing Management	3
					<u>27</u>

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

9
Total 36

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

MASTER OF SCIENCE
IN EDUCATION

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:

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
SPED 530	Characteristics of Mild/Moderate Disabilities	3

REQUIRED ELEMENTARY PERFORMANCE COURSES:

READ 531	Improvement of Instruction in Reading in the Elementary School	3
EDCI 632	Improvement of Instruction in Health/Science in the Elementary School	3
EDCI 634	Improvement of Instruction in Mathematics in the Elementary School	3
EDCI 636	Improvement of Instruction in Social Studies in the Elementary School	3
EDCI 637	Improvement of Language Arts in the Elementary School	3

ELECTIVES: (An elective, Scholarly Project, or Thesis)	<u>3</u>
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:

COUN 531	Counseling and Communication Skills	3
COUN 533	Ethical and Legal Issues	3
COUN 534	Tests and Measurements	3
COUN 535	Multicultural Counseling	3
COUN 541	Counseling Theories	3
COUN 631	Consultation and Program Development	3
COUN 632	Career and Lifestyle Development	3
COUN 633	Internship in Counseling	3
COUN 634	Group Counseling	3
COUN 635	School Counseling	3
COUN 637	Advanced Developmental Psychology	3
COUN639A	Practicum in Counseling I	3
EDCI 631	Introduction to Graduate Studies	3
	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, post-structuralism, 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 with a change in emphasis for a total of twelve hours of credit.

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** **Credit 1-3 hours**
Offered to meet special needs of chemistry majors. May be repeated.
- CHEM 530 Inorganic Chemistry** **Credit 3 hours**
Advanced principles of inorganic chemistry.
- CHEM 533 Environmental Chemistry** **Credit 3 hours**
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** **Credit 1 hour**
Laboratory experience. Concurrent enrollment in CHEM 533 required.
- CHEM 535 Biochemistry** **Credit 3 hours**
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** **Credit 1 hour**
Accompanies Biochemistry. Concurrent enrollment in 544 required.
- CHEM 544 Physical Chemistry** **Credit 3 hours**
Fundamental principles of thermodynamics, kinetics, and quantum mechanics as related to chemical concepts. Concurrent enrollment in CHEM 544L required.
- CHEM 544L Physical Chemistry Laboratory** **Credit 1 hour**
Laboratory experience. Concurrent enrollment in CHEM 544 required.
- CHEM 564 Physical Chemistry II** **Credit 3 hours**
Fundamental principles of kinetics, and quantum mechanics as related to chemical concepts.
- CHEM 600 Independent Study or Research** **Credit 1-3 hours**
Research investigations in chemistry. Permission of instructor and academic Dean required.
- CHEM 640 Topics in Chemistry** **Credit 1-3 hours**
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** **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. Must complete 3 hours.
- CHEM 660 Thesis Research** **Credit 1- 6 hours**
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** **Credit 1-3 hours**
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 will 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.

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
In-depth 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 equivalencies.

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, 124L, 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 Interscholastic 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.

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Jack L. Swanson, Emeritus Professor of Chemistry, 1971-1995
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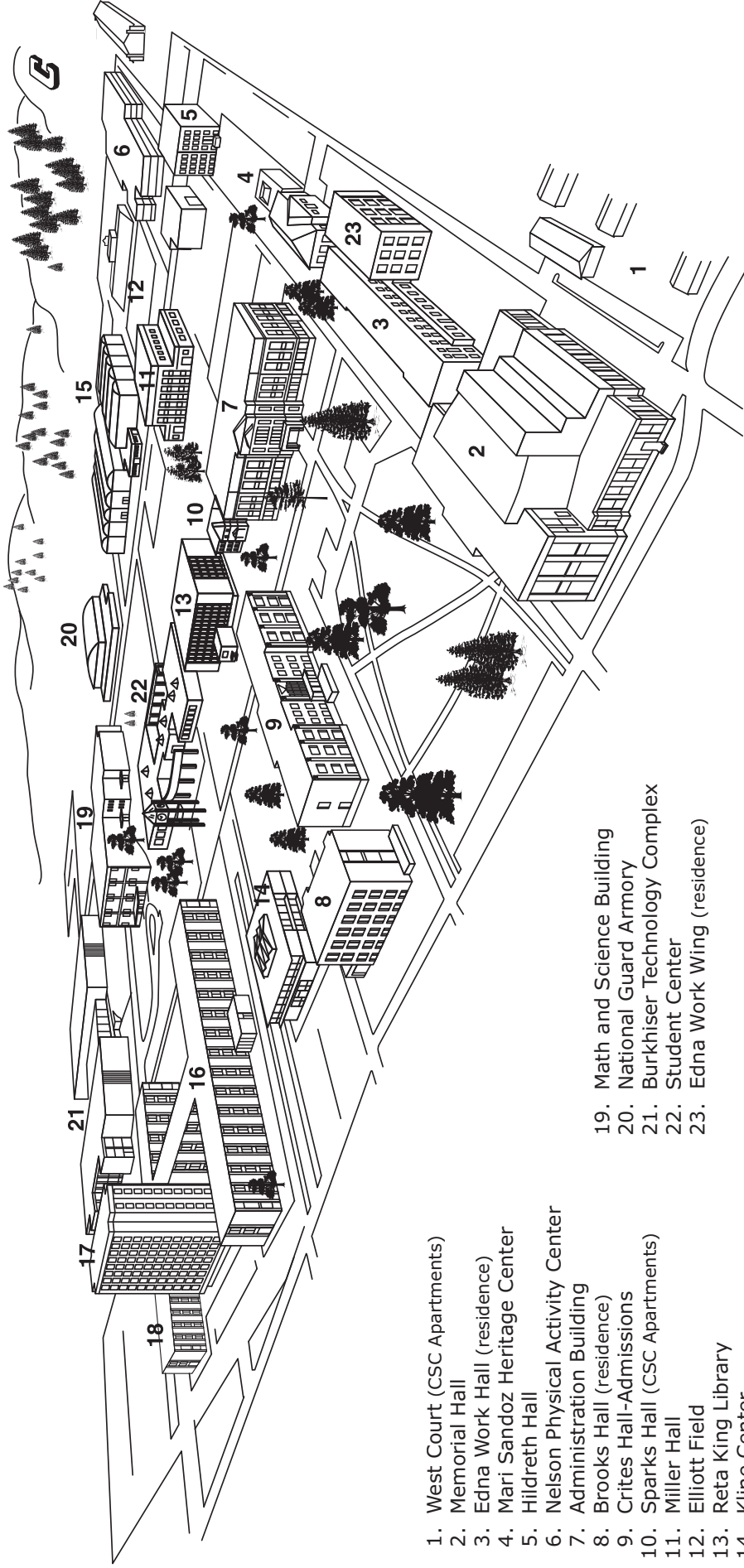
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CHADRON STATE COLLEGE CAMPUS MAP



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|------------------------------------|----------------------------------|
| 1. West Court (CSC Apartments) | 19. Math and Science Building |
| 2. Memorial Hall | 20. National Guard Armory |
| 3. Edna Work Hall (residence) | 21. Burkhiser Technology Complex |
| 4. Mari Sandoz Heritage Center | 22. Student Center |
| 5. Hildreth Hall | 23. Edna Work Wing (residence) |
| 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) | |

CHADRON STATE COLLEGE

GENERAL BULLETIN 2005 - 2007

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CHADRON, NEBRASKA 69337

RETURN POSTAGE GUARANTEED

SPECIAL FOURTH CLASS POSTAGE