PROGRAM CHANGES 2012-13 ADDENDUM

The Program Changes 2012-13 and Essential Studies 2012-13 Addenda (to the 2011-13 Undergraduate CSC catalog) apply to new CSC students (freshmen and transfers with fewer than 12 earned credit hours) entering the fall 2012 semester. These students will need to obtain

- 120 earned credits to earn a CSC Degree;
- 42 earned credit hours within the new Essential Studies (ES) Program;
- 40 earned credit hours Upper Division overall to obtain a CSC degree.

[CSC Students in 2011-13 or earlier catalogs will need 125 credits to obtain a CSC degree, 47 credit hours in the General Education program, and 45 credit hours of Upper Division overall to obtain a CSC degree.]

The Program Changes 2012-13 Addendum describes modifications for a selected set of programs. With respect to all other programs see the 2011-13 Undergraduate Catalog.

AGRICULTURE

Mission

The mission of the agriculture program is to address the educational needs of individuals interested in rangeland management, domestic livestock and/or wildlife management, soil and plant sciences, and production processes and techniques.

Student Learning Outcomes

Students in this program will develop the knowledge, skills, competencies, and attitudes so they will be able to:

- Attain a career in an agriculture or rangeland management related field.
- Recognize the highly competitive and global role of agriculture in the local, national, and world marketplaces.
- Achieve entrance into graduate programs in agriculture or rangeland management related fields.
- Interpret and utilize current theory and research findings to enhance knowledge, skills, and abilities needed for agriculture or rangeland management related careers.

The Degree of Bachelor of Science with a COMPREHENSIVE MAJOR IN RANGELAND MANAGEMENT: A student must complete the following Core Requirements in addition to an option, the General Studies requirements and the graduation literacy requirement. All students must take BIOL 225, 136/136L, or 138/138L which will satisfy the General Studies Biology requirement.

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 132</td>
<td>Introduction to Animal Science ..........</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 141</td>
<td>Introduction to Plant Science .........</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 151</td>
<td>Foundations of Nutrition &amp; Metabolism ....</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 242 &amp; 242L</td>
<td>Prin of Rangeland &amp; Forage</td>
<td>..........</td>
</tr>
<tr>
<td>AGRI 245 &amp; 245L</td>
<td>Prin of Soil Science &amp; Lab</td>
<td>..........</td>
</tr>
<tr>
<td>AGRI 310</td>
<td>Careers in Agriculture ..........</td>
<td>1</td>
</tr>
<tr>
<td>AGRI 334</td>
<td>Vegetation Manipulation Practices .......</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 337</td>
<td>Applied Animal Nutrition ...............</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 339 &amp; 339L</td>
<td>Rangeland Plant ID &amp; Lab</td>
<td>..........</td>
</tr>
<tr>
<td>AGRI 350</td>
<td>Rangeland Ungulate Production ..........</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 410</td>
<td>Agriculture Seminar .............</td>
<td>..........</td>
</tr>
<tr>
<td>AGRI 428 &amp; 428L</td>
<td>Habitat Invent &amp; Analysis &amp; Lab</td>
<td>..........</td>
</tr>
<tr>
<td>AGRI 438</td>
<td>Land Resource Management Planning ....</td>
<td>.........</td>
</tr>
</tbody>
</table>

Total 37
Rangeland Ecology Option
A student must complete the following program in addition to the Core and the General Studies requirements with exceptions as noted below. If the student elects to spend two semesters at the University of Nebraska-Lincoln the following exceptions apply 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 Requirements .............................................. 37    BIOL 438 & 438L Taxonomy of Plants & Lab
AGRI 235 Introduction to Wildlife Management ..... 3
AGRI 436 Rangeland and Fire Ecology .................. 3    AGRI 444 Grass Systematics ...................... 3
BIOL 238 & 238L Plant Morphology & Lab .......... OR AGRI 329 Agricultural Economics & Agribusiness .. 3
BIOL 439 & 439L Plant Physiology & Lab .......... 3    AGRON 477 Great Plains Pedology ................ 4
BIOL 336 & 336L General Ecology & Lab .......... 3    GEOS 322 Introduction to GIS .......... 3

Recommended Electives:
In order to enhance employment opportunities, the following elective courses are recommended: AGRI 331, 333/333L, 336, 338, 420, 451; BIOL 337; GEOS 321, 322 or at the University of Nebraska - Lincoln courses in Natural Resource Policy, Watershed Management, Principles of Forestry, Disturbed Land Reclamation, and Remote Sensing/GIS.

Rangeland Fire Management Option
This program is designed for students who will complete two years at Casper College, or other two year schools with a similar curriculum, and who will then transfer to Chadron State College to complete a Bachelor of Science degree in Rangeland Management. A student must complete the following program in addition to the Core and the CSC General Studies Requirements. See an agriculture advisor on the Chadron State College campus for the courses to be taken at Chadron State College.

Core Requirements .............................................. 37    FIRE 1810 Introduction to Wildland Fire Fighting .... 3
FIRE 1500 Introduction to Fire Science .......... 3    FIRE 1830 Intermediate Wildland Fire Behavior ...... 3
FIRE 1510 Fire Fighting Strategy & Tactics I ...... 3    FIRE 1840 Single Resource Boss/Crew ................ 3
FIRE 1520 Fire Fighting Strategy & Tactics II ... 3    FIRE 1991 Wildland Leadership ........................ 3

Total 58

Classes with the FIRE prefix here are only available at Casper College. See General Studies transfers for electives to take at Casper College to meet the General Studies required by CSC. See Applied Sciences transfers for courses at Casper College that would meet some of the core requirements. A maximum total of 66 transfer hours will be applied towards the CSC Bachelor of Science degree. For further information see the Additional Information for Transfer Students section of the CSC General Catalog.

http://www.csc.edu/admission/transfer/guides/casper.csc
http://www.csc.edu/admission/transfer/guides/casper_applied.csc
http://www.csc.edu/admission/transfer/guides/transfercredit.csc


Rangeland Livestock Management Option
A student must complete the following program in addition to the Core and the General Studies requirements. No exceptions to the General Studies requirements apply to this option.

Core Requirements .............................................. 37    Animal Science Electives from list below .......... 9
AGRI 234& 234L Prin of Animal Nutrition & Lab .... 3    Business Electives from list below .................. 6
AGRI 331 Farm and Ranch Management ............... 3 Total 58

Animal Science Electives: Select at least nine (9) hours from the following: AGRI 324, 333/333L, 336, 338, 427/427L, 447.

Business Electives: Select nine (6) hours from the following: ACTG 241; ECON 232, 334, 338; FIN 335.

Recommended Electives: In order to enhance employment opportunities, the following elective courses are recommended: AGRI 335, 420, 431, 436, 451; GEOS 321, 322, and ECON 434.
Rangeland Wildlife Management Option

A student must complete the following program in addition to the Core and the General Studies requirements. No exceptions to the General Studies requirements apply to this option.

Core Requirements .................................................. 37
AGRI 235  Introduction to Wildlife Management..........3
AGRI 325  Rangeland Wildlife Management.............3
AGRI 426  Wildlife Research and Mgmt Tech ..........3
AGRI 435  Wildlife Management Practicum ............3
AGRI 445 & 445L  Mammalogy & Lab .................3
AGRI 451  Human Dimensions of Wildlife Mgmt ....3
BIOL 401  Ornithology .............................................3
Total 58

To enhance employment potential, students are recommended to take courses from the following: AGRI 234/234L, 324, 427/427L, 436; GEOS 321, 322; MATH 138, 232. Recommended Biology electives are BIOL 139/139L, 239/239L, 337, 343/343L, 427, 431/431L, 444/444L, or the Wildlife Biology Minor.

Bachelor of Science in Natural Resources WITH A MAJOR IN GRASSLAND ECOLOGY AND MANAGEMENT: 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.

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN BUSINESS ADMINISTRATION with AGribusiness OPTION: See Business Department.

MINORS in Agriculture

Agribusiness – Agriculture: This minor is recommended for the student interested in agribusiness and enrolled in a major other than rangeland management. Rangeland management majors are advised to complete the Minor in Agribusiness offered by Business.

AGRI 132  Introduction to Animal Science..............3
AGRI 242 & 242L  Prin of Rangeland & Forage Mgmt & Lab .................4
AGRI 310  Careers in Agriculture .........................1
AGRI 331  Farm and Ranch Management ..................3
AGRI 410  Agriculture Seminar .............................1
Choose 9 hrs of electives from below ......................9
Total 21

Electives: AGRI 259, 329, 431, ECON, 434, FIN 335.

Agricultural Plant Science: This minor is recommended for the student interested in the plant sciences and enrolled in a major other than rangeland management. Rangeland management majors are advised to complete the Minor in Plant Sciences offered by Biology.

AGRI 141  Introduction to Plant Science ...............3
AGRI 245 & 245L  Prin of Soil Science & Lab ........4
AGRI 339 & 339L  Rangeland Plant ID & Lab ..........3
AGRI 428 & 428L  Habitat Invent & Analysis & Lab .3
BIOL 238 & 238L  Plant Morphology & Lab
BIOL 439 & 439L  Plant Physiology & Lab ..............3
BIOL 438 & 438L  Taxonomy of Plants & Lab
AGRI 444  Grass Systematics..............................3
GEOS 322  Introduction to GPS ..........................1
Total 20
**Animal Science:** This minor is recommended for the student interested in the animal sciences and enrolled in a major other than rangeland management.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 132</td>
<td>Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 242 &amp; 242L</td>
<td>Prin of Rangeland &amp; Forage Mgmt &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>AGRI 310</td>
<td>Careers in Agriculture</td>
<td>1</td>
</tr>
<tr>
<td>AGRI 337</td>
<td>Applied Animal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 331</td>
<td>Farm &amp; Ranch Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 335</td>
<td>Horse Production</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Animal Production electives to be selected from list below</td>
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</tr>
<tr>
<td></td>
<td>Animal Anatomy/Physiology to be selected from list below</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 20

**Animal Production:** Select at least six (6) hours from the following: AGRI 333/333L, 335, 336, 350.

**Animal Anatomy/Physiology:** Select at least three (3) hours from the following: AGRI 427/427L, 447.

**Equine Management:** This minor is recommended for the students who want a basic understanding of Equine Management and enrolled in a major other than rangeland management.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>AGRI 132</td>
<td>Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 242 &amp; 242L</td>
<td>Prin of Rangeland &amp; Forage Mgmt &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>AGRI 331</td>
<td>Farm &amp; Ranch Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 335</td>
<td>Horse Production</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 346</td>
<td>Equine Communications I</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 347</td>
<td>Equine Communications II</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 429</td>
<td>Equine Industry Applied Field Studies</td>
<td>2</td>
</tr>
</tbody>
</table>

Total 21

**Rangeland Management:** This minor is recommended for the student that wants a basic understanding of rangeland management that will compliment a major other than rangeland management.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 132</td>
<td>Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 242 &amp; 242L</td>
<td>Prin of Rangeland &amp; Forage Mgmt &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>AGRI 339 &amp; 339L</td>
<td>Rangeland Plant ID &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 428 &amp; 428L</td>
<td>Habitat Invent &amp; Analysis &amp; Lab</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 7

**Electives:** AGRI 235, 333/333L, 334, 337, 350, 436, GEOS 321, 322

**Veterinary Science:** This minor is recommended for the student that is interested in veterinary science and enrolled in a major other than rangeland management.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 132</td>
<td>Introduction to Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 337</td>
<td>Applied Animal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 410</td>
<td>Ag Seminar</td>
<td>1</td>
</tr>
<tr>
<td>AGRI 346</td>
<td>Equine Communications I</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 347</td>
<td>Equine Communications II</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 347</td>
<td>Animal Breeding &amp; Reproduction</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 427 &amp; 427L</td>
<td>Animal Anat &amp; Phys &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>AGRI 445 &amp; 445L</td>
<td>Mammalogy &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 445 &amp; 445L</td>
<td>Ornithology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 3

**Electives:** AGRI 324, 425/425L, 335, 336, 337, 338 451; BIOL 324, 341/341L, 343/343L, 340, 431, 432/432L.

**Wildlife Management:** This minor is recommended for the student interested in wildlife management. Rangeland management majors are advised to complete the Minor in Wildlife Management offered by Biology.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>AGRI 235</td>
<td>Introduction to Wildlife Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 325</td>
<td>Rangeland Wildlife Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 426</td>
<td>Wildlife Research and Mgmt Tech</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 435</td>
<td>Wildlife Management Practicum</td>
<td>3</td>
</tr>
<tr>
<td>AGRI 445 &amp; 445L</td>
<td>Mammalogy &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 401</td>
<td>Ornithology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 21

To satisfy wildlife electives and to enhance employment potential, students are recommended to take courses from the following: AGRI 245/245L, 324, 339/339L, 428/428L, 436, 451; BIOL 343/343L, 427, 431/431L, 444/444L, GEOS 321, 322, MATH 232.
ACADEMIC CERTIFICATE in Agriculture

**Agricultural Plant Sciences:** This certificate program is intended to enhance the knowledge base of producers, conservationists, and interested members of the general public in the area of plant science. The successful student in this program will be awarded a Certificate in Agricultural Plant Sciences upon successful completion of the following courses.

- AGRI 141 Introduction to Plant Science .................... 3
- AGRI 339 & 339L Rangeland Plant ID & Lab ............ 3
- BIOL 438 & 438L Taxonomy of Plants & Lab
  - OR
  - AGRI 444 Grass Systematics................................. 3
  - BIOL 439 & 439L Plant Physiology & Lab ............ 3

**Total** 12

To enhance employability with this certificate, it is recommended that students supplement these classes with the following: AGRI 245/245L, 428/428L, 431, 436, BIOL 138/138L, 336/336L, 425/425L, 431/431L, 448/448L, GEOS 321, 322.

**Wildlife Management:** This certificate program is intended to enhance the knowledge base of producers, conservationists, and interested members of the general public in the area of wildlife management. The successful student in this program will be awarded a Certificate in Wildlife Management upon successful completion of the following courses.

- AGRI 235 Introduction to Wildlife Management ...... 3
- AGRI 325 Rangeland Wildlife Management............... 3
- AGRI 426 Wildlife Research and Mgmt Tech .......... 3
- AGRI 435 Wildlife Management Practicum ............ 3

**Total** 12

To enhance employability with this certificate it is recommended that students supplement these classes with the following: AGRI 324, 427/427L, 436, 445/445L or BIOL 435/435L, BIOL 139/139L, 336/336L, 401, 431/431L, 444/444L; GEOS 321, 322.

**BUSINESS**

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:

1) Comprehensive Major in Business Administration
   - Options: Accounting, Agribusiness, Finance, Management, Business Information Systems, Marketing/Entrepreneurship
2) Subject Major in General Business
3) Master of Business Administration

**Vision**

The Business Academy at Chadron State College provides nationally competitive professional preparation in Business Administration.

**Mission**

The faculty of the Business Academy is committed to preparing students for challenging careers in the rapidly changing, highly technological and culturally diverse world. The fundamental purpose of the Business Academy is to be the premier provider of professional business programs in our service region. We strive to combine excellence in teaching with appropriate coursework 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

Business Academy graduates will:

1. Be prepared to effectively practice their profession upon graduation by demonstrating competency in the core business functions.
2. Demonstrate an understanding of business by integrating the core business functions.
3. Attain a career or entrance into a graduate program in business or a related field.

Measurement Instruments:

The Business Academy will use a combination of instruments to measure the effectiveness of the learning outcomes. These instruments include but are not limited to: stakeholder surveys, internship data, course and option level evaluations and an exit exam to be completed in the capstone course.

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, the graduation literacy requirement 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 MATH 138 Applied Calculus, MATH 142 College Algebra or MATH 151 Calculus I (or equivalent) prior to taking advanced (300-400) Finance, Economics and Management courses and BA 331 Business Communications (or equivalent). These two requirements may also fulfill the General Studies requirements in Mathematics and Communication.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACTG 241</td>
<td>Accounting Principles I</td>
<td>3</td>
</tr>
<tr>
<td>ACTG 242</td>
<td>Accounting Principles II</td>
<td>3</td>
</tr>
<tr>
<td>BA 336</td>
<td>Business &amp; Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BA 337</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BIS 231</td>
<td>Principles of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BIS 332</td>
<td>Decision Support for Managers</td>
<td>3</td>
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<tr>
<td>ECON 231</td>
<td>Macroeconomics</td>
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<tr>
<td>ECON 232</td>
<td>Microeconomics</td>
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<tr>
<td>FIN 330</td>
<td>Principles of Finance</td>
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<tr>
<td>MGMT 230</td>
<td>Principles of Management</td>
<td>3</td>
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<tr>
<td>MGMT 434</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 36

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

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, the General Studies requirements and the graduation literacy requirement. 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 MATH 138 Applied Calculus, MATH 142 College Algebra or MATH 151 Calculus I (or equivalent) prior to taking advanced (300-400) Finance, Economics and Management courses and BA 331 Business Communications (or equivalent). These two requirements may also fulfill the General Studies requirements in Mathematics and Communication.

Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>ACTG 241</td>
<td>Accounting Principles I</td>
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</tr>
<tr>
<td>ACTG 242</td>
<td>Accounting Principles II</td>
<td>3</td>
</tr>
<tr>
<td>BA 336</td>
<td>Business &amp; Economic Statistics</td>
<td>3</td>
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<td>BA 337</td>
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<td>3</td>
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<tr>
<td>ECON 232</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 330</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 230</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 434</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 231</td>
<td>Principles of Marketing</td>
<td>3</td>
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</tbody>
</table>

Total 36

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 332 Accounting Information Systems ........... 3
ACTG 337 Cost Management Accounting ............... 3
ACTG 341 Intermediate Accounting I ................... 3
ACTG 342 Intermediate Accounting II ................. 3
ACTG 430 Personal Income Tax ............................ 3
ACTG 431 Corporate/Fiduciary Tax ....................... 3
ACTG 438 Auditing ......................................... 3
Total ............................................ 57

Students completing the accounting option will have met the educational requirements to take professional examinations required to become a Certified Management Accountant (CMA), Certified Internal Auditor (CIA) and Certified Fraud Examiner (CFE).

Accounting Option: Certified Public Accountant Path
BA Degree: Accounting Option Requirements ........ 57
ACTG 433 Government/Not-for-Profit Actg .......... 3
ACTG 437 Advanced Cost Management Actg ....... 3
ACTG 443 Advanced Financial Accounting ......... 3
BA 241 Quantitative Methods ............................ 3
BA 431 Professional Ethics ................................ 3
BA 432 Legal Aspects of Business Ownership ...... 3
General Studies ............................................. 47
Electives(1) .................................................. 28
Total ............................................ 150

Accounting Option: Certified Public Accountant Path (with MBA)
BA Degree: Accounting Option Requirements ........ 57
1 of ACTG 433, 437 or 443............................... 3
BA 241 Quantitative Methods ............................ 3
BA 431 Professional Ethics ................................ 3
BA 432 Legal Aspects of Business Ownership ...... 3
General Studies ............................................. 47
Undergraduate Electives ................................. 9
BA 432 Legal Aspects of Business ....................... 3
FIN 338 Real Estate Investments & Insurance ........ 3
FIN 432 Financial Management .......................... 3
MGMT 432 Production & Operations Mgmt .......... 3
Total ............................................ 161

Students completing a CPA Path will have met the educational requirements to take the professional examination required to become a CPA in the State of Nebraska.

Agribusiness Option
Core Requirements ........................................ 36
ACTG 337 Cost Management Accounting ............... 3
AGRI 259 Agricultural Econ & Agribusiness ........ 3
AGRI 331 Farm and Ranch Management ............... 3
AGRI 431 International Food Policy ..................... 3
BA 432 Legal Aspects of Business ....................... 3
FIN 338 Real Estate Investments & Insurance ........ 3
FIN 432 Financial Management .......................... 3
MGMT 432 Production & Operations Mgmt .......... 3
Total ............................................ 57

Business Information Systems Option
Core Requirements ........................................ 36
BIS 200 Intro to Computer Application ................. 3
BIS 230 Web Page Development .......................... 3
BIS 235 Business Programming .......................... 3
BIS 331 Database Management .......................... 3
BIS 337 E-Commerce .................................... 3
BIS 430 Project Management ............................. 3
BIS 431 Systems Analysis and Design .................. 3
Total ............................................ 57

Finance Option
Core Requirements ........................................ 36
BA 241 Quantitative Methods ............................ 3
FIN 333 International Finance and Economics ..... 3
Or
ACT 337 Cost Management Accounting ............... 3
FIN 338 Real Estate Investments & Insurance ....... 3
FIN 432 Financial Management .......................... 3
FIN 439 Investment Analysis ............................. 3
Total ............................................ 57
Management Option
Core Requirements ........................................ 36
ACTG 337 Cost Management Accounting ..................36
OR
BA 241 Quantitative Methods ....................................3
BA 432 Legal Aspects of Business Ownership ............3

FIN 432 Financial Management ................................3
MGMT 330 Organizational Theory & Behavior ............3
MGMT 430 Human Resource Management ...............3
MGMT 432 Production & Operations Management .......3
MKTG 335 Entrepreneurship/Business Start-Up ..........3
Total 57

Marketing/Entrepreneurship Option
Core Requirements ........................................ 36
MKTG 331 Sales Techniques ....................................3
MKTG 334 Entre – Imagination & Opportunity ...........3
MKTG 335 Entre – Business Start-Up .......................3

MKTG 336 Entre – Promotions & Advertising .............3
MKTG 338 Buyer Behavior .....................................3
MKTG 435 Business and Marketing Strategy ..............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 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 in Education with a FIELD ENDORSEMENT IN BUSINESS, MARKETING, AND INFORMATION TECHNOLOGY EDUCATION (6-12)*: A student must complete the following program in addition to the General Studies, the graduation literacy requirement 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 MATH 138 Applied Calculus, MATH 142 College Algebra or MATH 151 Calculus I (or equivalent) prior to taking advanced (300-400) Finance, Economics and Management courses and BA 331 Business Communications (or equivalent). These two requirements may also fulfill the General Studies requirements in Mathematics and Communication.

ACTG 241 Accounting Principles I ..........................3
ACTG 242 Accounting Principles II .........................3
BA 336 Business and Economic Statistics .................3
BA 337 Business Law ........................................3
BIS 200 Introduction to Computer Applications .........3
BIS 231 Principles of Information Systems ................3
BIS 332 Decision Support for Managers ..................3
CTE 434 Prin. & Philosophy of CTE .......................3
CTE 438 Coord. Tech: Work-Based Learning .............3

ECON 231 Macroeconomics ..................................3
ECON 232 Microeconomics ..................................3
ECON 232 Principles of Microeconomics ..................3
FIN 330 Principles of Finance ................................3
MGMT 230 Principles of Management ....................3
MGMT 343 Strategic Management .........................3
MGMT 331 Principles of Marketing .......................3
MKTG 336 Entre - Promotions & Advertising ...........3
MKTG 338 Buyer Behavior ..................................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 work experience. The endorsement is available only to those who have either (A) 1000 verified hours of volunteer, internship, or paid work experience; or (B) at least 300 hours of supervised work experience under the direction of the college recommending the endorsement (BA 390).
The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN BASIC BUSINESS EDUCATION (6-12): A student must complete the following program in addition to the General Studies, the graduation literacy requirement 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 MATH 138 Applied Calculus, MATH 142 College Algebra or MATH 151 Calculus I (or equivalent) prior to taking advanced (300-400) Finance, Economics and Management courses and BA 331 Business Communications (or equivalent). These two requirements may also fulfill the General Studies requirements in Mathematics and Communication.

ACTG 241 Accounting Principles I ........................................ 3
ACTG 242 Accounting Principles II ...................................... 3
BA 336 Business & Economics Statistics .......................... 3
BA 337 Business Law ........................................................ 3
BIS 200 Introduction to Computer Applications ............. 3
BIS 332 Decision Support for Managers ......................... 3

FIN 230 Web Page Development ...................................... 3
FIN 235 Business Programming ..................................... 3
FIN 331 Database Management ...................................... 3

FIN 332 Decision Support for Managers ......................... 3
FIN 333 International Finance & Econ ................................ 3

Total 36

The Degree of Bachelor of Science in Education with a MIDDLE GRADES CONTENT AREA OF SPECIALIZATION IN BUSINESS EDUCATION (GRADES 4-9): A student must complete the following program in addition to the General Studies, graduation literacy, Professional Education and Middle Grades requirements, and in addition one other Content Area of Specialization in Middle Grades. Transfer students from a two (2) year institution must complete 50% of the required courses for the major from Chadron State College.

ACTG 241 Accounting Principles I ........................................ 3
BA 331 Business Communications .................................. 3
BA 337 Business Law ........................................................ 3
AGRI 331 Farm and Ranch Management .......................... 3
AGRI 329 Agricultural Marketing .................................... 3

Total 18

MINORS in Business

Agribusiness – Business: Business majors are encouraged to complete the Minor in Agribusiness offered by Agriculture.

ACTG 241 Accounting Principles I ........................................ 3
AGRI 331 Farm and Ranch Management .......................... 3
AGRI 329 Agricultural Marketing .................................... 3

Or

AGRI 431 International Food Policy .................................. 3

Total 21

Business:

ACTG 241 Accounting Principles I ........................................ 3
ACTG 242 Accounting Principles II ...................................... 3
BA 337 Business Law ........................................................ 3
BIS 332 Decision Support for Managers ......................... 3

Total 21

Business Information Systems:

BIS 231 Principles of Information Systems .................. 3
BIS 332 Decision Support for Managers ......................... 3
BIS 330 Principles of Finance .......................................... 3

Total 21

Finance:

ACTG 241 Accounting Principles I ........................................ 3
BA 336 Business and Economic Statistics .................... 3
ECON 130 Survey of Economics ..................................... 3
FIN 330 Principles of Finance .......................................... 3

Total 21

Recommended Courses: In order to enhance employment and graduate school opportunities, the following electives are recommended: BA 241; ECON 338; FIN 338, 430, 439.
Marketing/Entrepreneurship:
BA 336 Business & Economic Statistics ............. 3
MKTG 231 Principles of Marketing..................... 3
MKTG 331 Sales Techniques
OR
MKTG 334 Entre – Imagination & Opportunity ........ 3
MKTG 335 Entre – Business Start-Up .................... 3
MKTG 336 Entre – Promotions & Advertising .......... 3
MKTG 338 Buyer Behavior .............................. 3
MKTG 439 Business & Marketing Research ............ 3
Total 21

EDUCATION

Mission
The mission of the Chadron State College Teacher Education program, founded on educating Visionary Leaders, prepares candidates to teach and facilitate student learning in candidate’s respective content area of study. Candidates will gain applicable knowledge and skills in the area of assessment, curriculum, guidance, multicultural education, classroom management, professional issues, special education, psychology, children’s literature and instructional technology as part of this program.

Philosophy
Education in a democracy is accepted as the most important human activity for the maintenance, perpetuation, and advancement of the society. With this in mind, the Education 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 within the Education Unit 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 (Teacher Candidate) will serve others after graduation in their role as an educator.

We believe the educator’s role is to facilitate learning. The facilitation of learning is accomplished by creating opportunities for all learners to actively participate in the learning environment and process knowledge through methods appropriate to their individual learning styles. Our model is based, to a great extent, on the constructivist theory of learning.

The faculty within the Education Unit act upon a set of common beliefs that reflect the importance placed upon the preparation of qualified professional educators, who will assume leadership roles within the local education community and the education profession at large.

In so doing, various 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.

The Visionary Leader Model
Chadron State College’s Teacher Education Program is designed to produce Visionary Leaders. Visionary Leaders inherit our profession’s quintessential traditions and tools, and 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 Visionary Leader model is depicted by three interlocking circles, each representing an interrelated area of the curriculum: General Studies, Specialty Studies, and Professional Studies. One circle, professional studies, consists of six components that make up the conceptual framework for the Education Unit. These components are:
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.

**Student Learning Outcomes**

The Teacher Education Unit has identified six (6) broad student learning outcomes that are expected of all program completers. Each student learning outcome is a reflection of one of the following six components of the Unit’s conceptual framework “Developing Visionary Leaders”:

- Thinking Skills
- Human Relations-Multicultural
- Assessment
- Communication
- Methodology-Technology
- Professionalism

Each of the six broad student learning outcomes are assessed at various intervals (gateways) throughout the teacher education program. (These six components are also used to organize and define the Unit’s dispositions, as described in our conceptual framework document. The six expected student learning outcomes are as follows:

Upon completion of the CSC teacher education program, candidates will be able to

- promote activities that elicit critical thought, beyond recall and comprehension. (Thinking Skills)
- develop and maintain a physically inclusive and emotionally safe classroom environment conducive to effective learning that encourages student concerns, embraces elements of diversity, and exhibits an understanding of child growth and development. (Human Relations)
- design and assess learning activities (with sequential goals and objectives), utilizing assessment measures to make instructional and/or curricular decisions. (Assessment)
- demonstrate and promote effective communication skills (with students and adults), while respecting diversity and engaging students in the learning enterprise through motivation and constructive learning applications. (Communications)
- plan and deliver teaching-learning activities that are consistent with identified learning objectives and ability level of students while using a variety of instructional methodologies/strategies to prescribe for individual differences. (Methodology-Technology)
- demonstrate conduct befitting a professional educator to include the following dispositions: regular self-reflection, positive ethical behavior, respectful and attentive attitude, effective classroom management skills, appropriate knowledge of subject matter, and professional leadership. (Professionalism)

**Moral Character and Safety Concerns**

Teaching is a profession that requires its potential candidates to be individuals of integrity. Prospective teachers must be able to demonstrate that they are individuals of strong moral character who can make mature decisions for themselves and for their students. Teachers are responsible for the education, safety and well-being for anyone in their charge. Therefore, the Chadron State College Department of Education is interested in training future teachers who be adequate foundation to deny any candidate or potential candidate from participation in any practicum, pre-practicum, teacher internship or similar field experience, since the interests and safety of the children, and young people present in the classroom, schools and other venues where these field experiences take place are paramount.

With this in mind, should the College discover behavior, which in its reasonable judgment, establishes on the part of the candidate a lack of integrity, questionable moral/ethical character, or otherwise indicates a potential of risk to young persons and others in the educational community, the Department of Education reserves the right to deny entry to, or dismiss anyone from, any program which leads to certification. More specifically, these kinds of behavior shall be adequate foundation to deny any candidate or potential candidate from participation in any practicum, pre-practicum, teacher internship or similar field experience, since the interests and safety of the children, and young people present in the classroom, schools and other venues where these field experiences take place are paramount.

Proportional behaviors, which the Department of Education reasonably determines renders the candidate a risk to the educational community, or demonstrates a likelihood of illegal activity, may be established by any credible means, including the facts surrounding a record of arrests and/or convictions.

Similarly, behaviors which result in a finding by a court or other governmental body that the individual is:

- A mentally ill and dangerous person;
- Mentally incompetent to stand trial;
Acquitted of criminal charges because of insanity;
An incapacitated person;
A person in need of a guardian or conservator, or
A person unable to manage his or her property/affairs due to mental illness, mental deficiency, or chronic use of drugs or chronic intoxication are the kind of behaviors which are likely to disqualify a candidate from participation in practicum experiences and other Department of Education programs.

Nebraska State Department of Education Policy Pertaining to Students with Felony or Misdemeanor Convictions
The Nebraska Department of Education policy requires that a person with felony convictions or misdemeanor convictions involving abuse, neglect, or sexual misconduct shall not be allowed to participate in pre-teacher internship, laboratory and/or classroom field experiences or intern experiences without approval by the Board of Education. To comply with this policy, the Chadron State College Department of Education will require each student to affirm under oath that he/she does not have any convictions in the above-named areas prior to each field experience placement. If a student does have any felony or misdemeanor conviction(s), he/she is required to meet with the Chadron State College Certification Officer, as soon as possible. Students with questions pertaining to convictions should also contact this office.

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 qualifications for entering the program. These include:

1. Academic scholarship
2. Command of oral and written English
3. Social, emotional and personal maturity
4. Affirmation under oath that the student has no felony conviction or misdemeanor conviction involving abuse, neglect, or sexual misconduct (Nebraska Department of Education, Rule 20: Regulations for the Approval of Teacher Education Program Section 005.07).
5. 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 (Nebraska Department of Education, Rule 21, Section 003.10).

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/or before the end of the junior year). This course enables students to study the field of teaching and to evaluate their knowledge, skills, and dispositions 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 (PPST (Praxis I) or computerized PPST: Reading 170, Math 171, Writing 172);
   b) completion of 30 semester hours of college course 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 either C A 125, 225 or 233) 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) 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 (Nebraska Department of Education, Rule 20: Regulations for the Approval of Teacher Education Program, Section 005.07); and
   b) 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 (Nebraska Department of Education, Rule 21, Section 003.10).

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 Professional Year is comprised of the following two semesters of study: Professional Semester (Block) and the Teacher Internship Semester (Student Teaching).

The student, in cooperation of his/her advisor, must make application for the Professional Year by March 1 for Fall semester enrollment, and November 1 for Spring semester enrollment; this must be done during the applicant’s Junior Year of study. 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, appropriate grade point 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 will take the application for evaluation by the department faculty to be voted upon. If supported by a “yes” vote, the Chairperson 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 endorsement 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.

To qualify for admission into the Professional Year, the candidate must have completed the following criteria:

1. The candidate must have earned at least 90 semester hours by the time of enrollment in the Professional Year. At least 12 semester hours must have been earned in residence at Chadron State College.
2. Achievement of an overall 2.50 GPA in all college work (GPA will be calculated using grades from all previous college/university course work, as well as from CSC course work), and a 2.50 GPA (GPA will be calculated using grades from all previous college/university course work as well as course work from CSC) in areas of specialization, minor, and in professional education for endorsement and certification purposes.
3. A secondary candidate must have completed 75% of the course work required for all endorsements with a GPA of 2.50 (GPA will be calculated using grades from all previous college/university course work as well as course work from CSC), in addition to all of the core Professional Education courses.
4. An elementary candidate must have completed 75% of the minor or second endorsement area with a GPA of 2.50 (GPA will be calculated using grades from all previous college/university course work as well as course work from CSC), in addition to all of the core Professional Education courses.
5. A candidate pursuing two endorsements must take one of his/her Special Methods classes (EDUC 431) prior to the Professional Year but not before the candidate’s junior year. The candidate must attain at least a 2.50 GPA in her/his EDUC 431: Special Methods course(s).

6. Those preparing to enter teaching must have no grade less than a “C” and a GPA of 2.50 or better in the prerequisite Professional Education courses (EDUC 131, PSYC 231 (or PSYC 334 for those seeking the Early Childhood Unified Endorsement), EDUC 434, SPED 230, 334, EDUC 300/320).

7. Completion of a Visionary Leader portfolio verified by the candidate’s advisor or methods instructor’s assessment, which is sent to the Director of Field Experience Office. The portfolio will be submitted to the candidate’s advisor by November 1 or March 1 of the semester prior to the Professional Year.

8. Demonstration of social, emotional, personal maturity as well as the physical capabilities essential to handle the vast responsibilities required in the teaching profession. If at any time a candidate’s emotional, mental, or physical capabilities are determined to be impaired seriously so that as a result of professional judgment the candidate is unable to demonstrate the qualities required for the teaching profession, the college reserves the right to remove him/her from the program.

9. The candidate should come to the Field Experience Office to check on her/his progress toward meeting the qualifications to be admitted to the Professional Year. If a secondary education candidate has additional questions about the Teacher Education Program the candidate should seek out an Education faculty member as a supporting advisor.

The specific step-by-step process required for being admitted into the Professional Year is as follows:

1. The candidate will obtain the Application Packet from the Field Experience Office.
   a. Fill out application form and return it to Field Experience Office by due date (March 1st for Fall semester Block, November 1st for Spring Semester Block).

2. The recommendation forms are then taken to the candidate’s advisor and
   a. Three forms are given to members of the candidate’s departmental faculty
   b. One recommendation form is given to a faculty member outside the candidate’s department
   c. The advisor keeps one recommendation form and the “Department Recommendations for Admission to Professional Year” sheet to fill out.

3. After all of the recommendation forms are returned to the advisor, he/she presents the candidate’s Departmental Recommendations to the candidate’s Department for Departmental approval to be admitted to the Professional Year.

4. The candidate should check in with the advisor to make sure that the recommendations have been returned and have been acted upon by the Department.

5. The Department has three (3) possible choices:
   a. Recommend candidate be admitted to the Professional Year
   b. Recommend with reservations
      1. Department recommends the candidate, but has concerns. The candidate and the Education Department will be notified by letter of these concerns
   c. Does not recommend
      1. The candidate is not admitted into the Professional Year and would need to change majors or work out the issues with the candidate’s Department. Formal notification will be in letter format.

6. If the Department approves the Departmental Recommendations, the forms are sent to the Field Experience Office. It is then sent on to the Dean of Professional and Graduate Studies and the Dean of Students for approval. Last, it is sent back to the Field Experience Office and filed in the candidate’s folder.

7. The candidate’s advisor must receive the candidate’s portfolio by November 1st for Spring Block or by March 1st for Fall Block. After checking the portfolio the advisor will ask the candidate to make any changes that are needed or approve the portfolio as presented. When the advisor approves the candidate’s portfolio, the evaluation form is signed and a copy of the form is sent to the Field Experience Office. The Field Experience Office must receive the evaluation form before the application is presented to the Screening Committee.

8. Following completion of the above, the application is presented to the Screening Committee for final approval.

9. If the Department or the Screening Committee does not approve the application, the candidate will not be allowed to enter the Professional Year. Formal notification to candidate will be in letter format.

If a student in the program for teacher education is suspended from the college, he/she automatically is removed from the Teacher Education 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 the teacher education program should he/she desire to re-enter the program.
A student who is denied admission to teacher education or who is administratively withdrawn from their teaching internship, may appeal the denial or administrative withdrawal by contacting the Director of Field Experiences for due process procedures.

**Admission To Teaching Internship Semester (Student Teaching)**

To be eligible to enter the teaching internship 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 misdemeanor crimes;
3. make a sworn statement that the student is mentally competent;
4. have a faculty approval on his/her portfolio; and
5. secondary students must have completed Special Methods classes (EDIC 431).

**Teaching Internship**

Chadron State College requires teacher interning full-days for one semester or a minimum of ten (10) weeks full-days for each Field endorsement taught during a given semester. Interning is a full-time position. Therefore, students **will not** be allowed to take additional course work during their internship semester. In addition, it is strongly suggested that teacher interns not engage in additional employment during their placement.

**Eligibility for Initial Certification or Added Endorsement**

To be recommended for Teacher Licensure or certification, the student must have (1) completed teaching internship with a minimum G.P.A. of 2.50 or above in each area of endorsement, (2) met all course and credit requirements for endorsement in their specialization fields, (3) received departmental approval and recommendation, (4) met all graduation requirements for the appropriate degree, (5) passed the Praxis II exam if an elementary, middle school and/or special education major, and (6) 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, and an oath of Mental Capacity.

A student seeking an additional endorsement after completing his/her degree program must complete the appropriate course work and officially notify the Teacher Certification Officer upon completion of the endorsement program/course work. Then proceed as outlined in (5) above.

**Graduation Without Certification**

In rare cases, permission may be granted for a student to graduate without a recommendation for certification. This provision is for the student who does not qualify for, or is removed from their teacher internship. However, there are times when, because of illness or other extreme situations, a student will decide not to complete all professional requirements. In this situation, the student should contact his or her advisor, and then complete a formal request to the Chadron State College Vice President for Academic Affairs to be allowed to graduate without completing all certification requirements. If permission is granted, an appropriate amended plan of study will be determined.

Any student who graduates without a recommendation for certification will not be recommended for teacher certification in any state. If, at some future time, the student wishes to complete certification requirements, (s)he must first reapply for readmission to the teacher education program. At least one semester must pass after graduation before the application can be made. Upon readmission to the Teacher Education program, the student will complete all requirements in effect at the time of reentry, including passing grades in all methods courses.

**Program Changes**

Chadron State College is a member of the Nebraska Council on Teacher Education, a teacher education governance and recommending body to the Nebraska Department of Education; therefore, all students majoring in early childhood, elementary, middle grades, or secondary education programs are subject to any program rule changes that may occur while a student is enrolled. If a student has not completed their program of study within three years following the program 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 and graduation literacy requirements, and either one field endorsement or one subject endorsement program:

Professional Education Courses
The following courses are prerequisites to the Professional Year (2.50 minimum G.P.A. required and no grade may be below a "C"):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 131</td>
<td>Intro to Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 300</td>
<td>Secondary Obs. Participation</td>
<td>1-3</td>
</tr>
<tr>
<td>PSYC 231</td>
<td>Educ Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SPED 230</td>
<td>Intro Except Learner</td>
<td>3</td>
</tr>
<tr>
<td>SPED 334</td>
<td>Differ Instr for Diverse Classroom</td>
<td>2</td>
</tr>
<tr>
<td>At least one subject or field endorsement</td>
<td>30-66</td>
<td></td>
</tr>
</tbody>
</table>

Total 44-82

Admission to Candidacy must be completed before the end of the junior year.

Professional Year (two semesters) - Comprised of the “Block” Professional Semester and the Teacher Internship Experience semester (Student Teaching). The following courses can be taken only as part of the Professional Year (2.50 minimum G.P.A. required): refer to Application for Professional Year requirements.

Semester #1 – “Block”

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 411s</td>
<td>Reading/Writing in the Content Areas</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 412s</td>
<td>Curriculum &amp; Standards, Secondary/MS</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 414s</td>
<td>Secondary/MS Classroom Mgmt</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 415</td>
<td>Human Relations/Multicultural</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 418s</td>
<td>Secondary/MS Assessment</td>
<td>1</td>
</tr>
<tr>
<td>SPED 412</td>
<td>SPED Practices &amp; Strategies</td>
<td>1</td>
</tr>
<tr>
<td>*EDUC 435a</td>
<td>Learning Methods for Social Sciences, history, Math, and Library Media</td>
<td>1-2</td>
</tr>
<tr>
<td>*EDUC 435c</td>
<td>Learning Methods for Music, Physical Education, Health, Theatre, Language Art/English</td>
<td>1</td>
</tr>
<tr>
<td>**EDUC 431a</td>
<td>Art endorsement</td>
<td>1</td>
</tr>
<tr>
<td>**EDUC 431c</td>
<td>Physical Education and Health endorsements</td>
<td>2</td>
</tr>
<tr>
<td>**EDUC 431e</td>
<td>Library Media endorsement</td>
<td>1</td>
</tr>
<tr>
<td>**EDUC 431f</td>
<td>Math endorsement</td>
<td>1</td>
</tr>
<tr>
<td>**EDUC 431g</td>
<td>Science endorsements</td>
<td>1</td>
</tr>
<tr>
<td>**EDUC 431i</td>
<td>Business endorsements</td>
<td>1</td>
</tr>
<tr>
<td>**EDUC 431j</td>
<td>Family and Consumer Sciences endorsement</td>
<td>1</td>
</tr>
<tr>
<td>**EDUC 431l</td>
<td>Social Science and History endorsements</td>
<td>1</td>
</tr>
<tr>
<td>**EDUC 431m</td>
<td>Interdisciplinary Methods</td>
<td>3</td>
</tr>
<tr>
<td>**ENG 461</td>
<td>English and Language Arts endorsements</td>
<td>3</td>
</tr>
<tr>
<td>**MUS 431A</td>
<td>Elementary music endorsement</td>
<td>3</td>
</tr>
<tr>
<td>**MUS 431B</td>
<td>Secondary music endorsement</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 9-13

*EDUC 435a Learning Methods for Social Sciences, history, Math, and Library Media (2 cr.)
*EDUC 435b Learning Methods for Business, Art, Science, Family & Consumer Sci. (2 cr.)
*EDUC 435c Learning Methods for Music, Physical Education, Health, Theatre, Language Art/English (1 cr.)
**EDUC 431a Art endorsement (1 cr.)
**EDUC 431c Physical Education and Health endorsements (2 cr.)
**EDUC 431e Library Media endorsement (1 cr.)
**EDUC 431f Math endorsement (1 cr.)
**EDUC 431g Science endorsements (1 cr.)
**EDUC 431i Business endorsements (1 cr.)
**EDUC 431j Family and Consumer Sciences endorsement (1 cr.)
**EDUC 431l Social Science and History endorsements (1 cr.)
**EDUC 431m Interdisciplinary Methods (3 cr.) (for students in the non-traditional learning teacher education prog.)
**ENG 461 English and Language Arts endorsements (3 cr.)
**MUS 431A Elementary music endorsement (3 cr.)
**MUS 431B Secondary music endorsement (3 cr.)

Students pursuing two Subject Endorsements must complete specialization instruction (i.e., EDUC 431) in both subject areas. One course should be taken prior to the Professional Year. The second specialized instruction course must be taken the first semester of the Professional Year (Block), if offered. The student must have a G.P.A. of 2.50 or better in the Professional Semester.

Course requirements for secondary level endorsements programs in the following subjects or fields are listed in each departmental section of this catalog (2.50 G.P.A. required):
Field Endorsement Programs
Art
Business Education
Chemistry
Family and Consumer Sciences Education
Health and Physical Education
Language Arts
Library Media Specialist
Mathematics
Mild/Moderate Disabilities (SPED)
Music
Natural Science
Physical Science
Social Science

Subject Endorsement Programs
Basic Business
Biology
Career & Tech. Educ.*
Coaching*
Earth Science
English
Health
History
Library Media Specialist*
Physical Education
Physics
Theatre
Vocational Special Needs*
Trade & Industrial Education (9-12)

*Supplemental Endorsements Programs: These programs do not stand alone, and must be completed in addition to either a subject or field endorsement program.

Semester #2 – Teacher Interning
EDUC 480K, Teacher Interning K-12, or EDUC 490S, Secondary Teacher Interning, courses can be taken only upon the successful completion of the above Semester #1 – “Block” 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, graduation literacy and Middle Grades “Content Area Specialization” requirements.

Professional Education: The following courses are prerequisites to the Professional Year (2.50 minimum G.P.A. required and no grade may be below a “C”):
EDUC 131 Intro to Teaching................................. 3
EDUC 320 Elementary/MS Obs. & Participation... 1-3
EDUC 321 Teach Elem/MS Mathematics......... 2
EDUC 322 Teach Elem/MS Language Arts........ 2
ART 334 Art for Elem./MS Teacher.................. 3
EDUC 433 The Middle School......................... 3
PSYC 231 Ed Psychology.................................. 3
PSYC 334 Developmental Psychology............. Total 59-64

Admission to the Teacher Education Program must be completed before the end of the junior year.

One EDUC 435A-C Learning Methods course required as well as two specialization instruction courses (i.e., EDUC 431) in the content areas. One specialization instruction course may be taken prior to the first professional semester. During the professional semester, one EDUC 435 Learning Methods and one specialization instruction course will be taken. The appropriate learning methods courses are outlined in the Secondary section above.

Elementary Methods Courses: Choose one related to the special content area. (See Below)
ART 334 Art for Elem./MS Teacher.................. 3
EDUC 321 Teach Elem/MS Mathematics........ 2
EDUC 322 Teach Elem/MS Language Arts........ 2
EDUC 323 Teach Elem/MS Social Studies........ 2
EDUC 434 Technology In Instructional Design.... 3
EDUC 435A-C Learning Methods.......................... 3
HPER 339 Theory of Physical Educ K-8........ 3
MUS 333 Music for the Classroom Teacher........ 3
Content Area of Specialization Requirements: The applicant must complete a minimum of two 18 credit hour Content Areas of Specializations. Course requirements for each of the offered Content Areas of Specialization are outlined within the appropriate departmental sections of this catalog/bulletin.

- Art
- Business Education
- Family and Consumer Sciences
- Health and Physical Education
- Language Arts
- Social Science
- Mathematics
- Special Education
- Natural Sciences

Professional Year (two semesters) - Comprised of the “Block” Professional Semester and the Teacher Internship Experience semester (Student Teaching)

Students pursuing the Middle Grades Endorsement program may select to complete their Professional Year course work requirements by enrolling in either the Elementary Professional Year (Elementary Block route) or the Secondary Professional Year (Secondary Block route). Options are outlined below.

The following courses can be taken only as part of the Professional Year (2.50 minimum G.P.A. required): refer to Application for Professional Year requirements.

Semester #1/Option 1 – Elementary Block Route: Refer to Application for Professional Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDUC 413</td>
<td>Elem/MS Curric. &amp; Counseling</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 414e</td>
<td>Elem/MS Classroom Mgmt</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 415</td>
<td>Human Relations/Multicultural</td>
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<tr>
<td>EDUC 416</td>
<td>Elem/MS Assessment</td>
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<td>EDUC 417</td>
<td>Teach Reading &amp; Writing Diagnosis</td>
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</tr>
<tr>
<td>EDUC 422</td>
<td>Teach Elem/MS Science &amp; Health</td>
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<tr>
<td>EDUC 423</td>
<td>Teach Primary Reading &amp; Writing</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 424</td>
<td>Teach Intern. Reading &amp; Writing</td>
<td>2</td>
</tr>
<tr>
<td>SPED 412e</td>
<td>SPED Practices &amp; Strategies</td>
<td>1</td>
</tr>
<tr>
<td>*Specialization Instruction course (i.e., EDUC 431)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>*An approved READ course (i.e., READ 430)</td>
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<td></td>
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Semester #1/Option 2 – Secondary Block Route: Refer to Application for Professional Semester

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<tr>
<td>EDUC 411s</td>
<td>Reading/Writing in the Content Areas</td>
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<tr>
<td>EDUC 412s</td>
<td>Curr. &amp; Standards: Secondary/MS</td>
<td>1-2</td>
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<tr>
<td>EDUC 414s</td>
<td>Secondary/MS Classroom Mgmt</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 415</td>
<td>Human Relations/Multicultural</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 416s</td>
<td>Secondary/MS Assessment</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 435</td>
<td>Learning Methods Sec/MS</td>
<td>1-2</td>
</tr>
<tr>
<td>SPED 412s</td>
<td>SPED Practices &amp; Strategies</td>
<td>1</td>
</tr>
<tr>
<td>*An approved READ course (i.e., READ 430)</td>
<td>3</td>
<td></td>
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<tr>
<td>Total</td>
<td></td>
<td>12-13</td>
</tr>
</tbody>
</table>

*An approved READ course (i.e., READ 430) must also be completed prior to the Teacher Internship (Student Teaching) semester.

Semester #2 – Teacher Interning

EDUC 480I, Teacher Internship Intermediate, and/or EDUC 480M, Teacher Internship Middle School, can be taken only after the successful completion of the Professional Semester (Block) courses (minimum G.P.A. of 2.50 required).

NOTE: The Praxis II: Elementary Education Curriculum, Instruction and Assessment Exam (as required by the Nebraska Department of Education) must be taken as a requisite for graduation for all Middle Grade Endorsement students.

Elementary School Professional Education Program

This program covers special instructional methods in science, health, reading, student and program assessment (tests and measurements), curriculum, guidance, multicultural and human relations, classroom management, special education, and other pertinent professional topics and issues. The student registers for EDUC 413, 414, 415, 416, 417, 422, 423, 424, and SPED 412e in their senior year (the Professional Semester – “Block”). Upon successful completion of the above courses (minimum 2.50 G.P.A. required), the student is then eligible to enroll in the Teacher Internship Experience the following semester.

Elementary majors will intern at a primary level (K-3) and an intermediate level (4-6). Students who have K-12 endorsements in addition to their elementary major/endorsement will intern in their elementary area for part of the Internship semester and in the 7-12 area the other portion of the Internship semester.
The Degree of Bachelor of Science in Education with a FIELD ENDORSEMENT IN ELEMENTARY EDUCATION (K-8): A student must complete the following program requirements in addition to the General Studies program and graduation literacy requirements and one minor program of study OR an additional endorsement program:

**Professional Education:** The following courses are prerequisites to the Professional Year (2.50 minimum G.P.A. required no grade may be below a “C”):

- EDUC 131 Intro to Teaching ............................................. 3
- EDUC 434 Technology In Instructional Design ........... 3
- SPED 230 Elem/MS Obs & Participation............... 1-3
- PSYC 231 Educ Psychology........................................... 3
- EDUC 320 Elem/MS Obs & Participation ............... 1-3
- EDUC 434 Technology In Instructional Design .......... 3
- ART 334 Art for the Elem/MS Teacher ..................... 3
- EDUC 321 Teach Elem/MS Mathematics .................. 2
- EDUC 322 Teach Elem/MS Language Arts ................. 2
- EDUC 323 Teach Elem/MS Social Studies ................. 2
- PSYC 334 Developmental Psychology.................. 3
- MATH 235 Math for the Elem Teacher I .................. 3
- MUS 333 Music for the Elementary Teacher ............. 3
- EDUC 361 Integrated Elem/MS Core Methods .......... 6
- PSYC 334 Developmental Psychology.................. 3
- SPED 230 Intro to the Exceptional Learner .............. 3
- SPED 334 Diff Instr for Diverse Classrooms .......... 2
- MATH 335 Math for the Elem Teacher II ................. 3
- MUS 333 Music for the Elementary Teacher ............. 3
- SPED 334 Diff Instr for Diverse Classrooms .......... 2
- PSYC 334 Developmental Psychology.................. 3
- SPED 230 Intro to the Exceptional Learner .............. 3
- SPED 334 Diff Instr for Diverse Classrooms .......... 2
- PSYC 334 Developmental Psychology.................. 3
- Total 17-19

**Elementary Education Endorsement Courses:**

- ART 334 Art for the Elem/MS Teacher ..................... 3
- EDUC 321 Teach Elem/MS Mathematics .................. 2
- EDUC 322 Teach Elem/MS Language Arts ................. 2
- EDUC 323 Teach Elem/MS Social Studies ................. 2
- SPED 230 Intro to the Exceptional Learner .............. 3
- PSYC 334 Developmental Psychology.................. 3
- MATH 235 Math for the Elem Teacher I .................. 3
- MATH 335 Math for the Elem Teacher II ................. 3
- MUS 333 Music for the Elementary Teacher ............. 3
- HPER 339 Theory of Physical Educ K-8 ................. 3
- ENG 235 Children’s Literature .......................... 3
- MATH 235 Math for the Elem Teacher I .................. 3
- MATH 335 Math for the Elem Teacher II ................. 3
- MUS 333 Music for the Elementary Teacher ............. 3
- HPER 339 Theory of Physical Educ K-8 ................. 3
- ENG 235 Children’s Literature .......................... 3
- Total 24

Admission to the Teacher Education Program must be completed before the end of the junior year.
*Can be taken before or during the Professional Year

**Elementary Minor OR Second Endorsement:** Course requirements for the following minors and/or endorsements programs are listed in each departmental section of this catalog/bulletin. One minor OR a second endorsement is required (minimum 2.50 G.P.A. required). Three-fourths (75%) of the minor or second endorsement program course work must be completed prior to entry into the “Block” (first semester) of the professional year.

Potential Elementary Minors include:
- Art
- Early Childhood
- English
- Information Technology
- Library Information Management
- Mathematics
- Mild/Moderate Disabilities (SPED)
- Physical Education
- Science
- Social Science
- Vocal Music

**Professional Year:** Comprised of the “Block” Professional Semester and the Teacher Internship Experience semester (Student Teaching)

The following courses can be taken only as part of the Professional Year (minimum 2.50 G.P.A. required): Refer to the Professional Year Application Requirements.

**Semester #1 – “Block”:**

- EDUC 413 Elem/MS Curr & Counseling ..................... 1
- EDUC 414e Elem/MS Classroom Mgmt ..................... 1
- EDUC 415 Human Relations/Multicultural .......... 1
- EDUC 416 Elem/MS Assessment ......................... 1
- EDUC 417 Teach Reading & Writing Diagnosis ..... 1
- EDUC 422 Teach Elem/MS Science & Health .......... 2
- EDUC 423 Teach Primary Reading & Writing .......... 2
- EDUC 424 Teach Internm. Reading & Writing .......... 2
- SPED 412e SPED Practices & Strategies ............ 1
- SPED 412e SPED Practices & Strategies ............ 1
- Total 12

**Semester #2 – Teacher Interning:**

*The following courses may be taken only upon the successful completion of the above (Semester #1 “Block”) courses (minimum G.P.A. of 2.50 required):

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

**NOTE:** The Praxis II: Elementary Education Curriculum, Instruction and Assessment Exam (as required by the Nebraska Department of Education) must be taken as a requisite for graduation for all Elementary Education students.
The Degree of Bachelor of Science in Elementary Education with a SUBJECT ENDORSEMENT IN EARLY CHILDHOOD EDUCATION (Birth through Grade 3): It is strongly recommended that a student complete the following program in conjunction with a K-8 Elementary Education Endorsement program, in addition to the General Studies, graduation literacy and Professional Education program requirements.

EDUC 231 Play, Art & Music for Early Childhood ........ 3
EDUC 233 Lit. & Lang. Arts for Early Childhood ........ 3
FCS 139 Human Development ................................... 3
FCS 237 Guid. Tech. in Human Relations .................... 3
FCS 238 Prenatal and Infant Develop. ....................... 3
FCS 239 Partners in Early Childhood Educ ................. 3
FCS 321a Curr Dev in Family & Con Sci Educ.............. 2
FCS 332 Family Studies
OR
FCS 335 Families in Society ...................................... 3
FCS 423 Program Development & Mgmt ...................... 3
FCS 448/448L Early Childhood Practicum & Lab ........... 4

Total 33

NOTE: The Praxis II: Elementary Education Curriculum, Instruction and Assessment Exam (as required by the Nebraska Department of Education) must be taken as a requisite for graduation.

MINOR in Early Childhood Education (K-8)

These courses must be completed along with the Elementary Education Field Endorsement curriculum.

EDUC 231 Play, Art & Music for Early Childhood .... 3
EDUC 233 Lit. & Lang. Arts for Early Childhood .... 3
FCS 139 Human Development ................................... 3
FCS 237 Guid. Tech. in Human Relations ............... 3
FCS 239 Partners in Early Childhood Educ ............ 3
FCS 321a Curr Dev in Family & Con Sci Educ ....... 2
FCS 423 Program Development & Mgmt .................... 3
FCS 448/448L Early Childhood Practicum & Lab .... 4

Total 27

PROGRAM FOR ADDING AN ENDORSEMENT

To add another 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 their teacher educator (Advisor) in the department offering the endorsement. The student must then notify the Teacher Certification Officer when the program coursework is complete and request that the subsequent Endorsement be posted (or added) to the student’s official transcript. The student must then submit a Nebraska Application for Teacher Certification 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.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

Mission - Recreation

The mission of the Chadron State College Recreation program is to meet the educational needs of individuals interested in the broad field of Recreation which includes the disciplines of Sport and Leisure Services, Outdoor Adventure Education, and Fitness and Exercise. The students in Recreation will develop the philosophies, knowledge and skills to become leaders in these disciplines. The program is designed to foster a commitment to providing lifelong recreational opportunities for the general public.

Student Learning Outcomes - Recreation

- Participate in scholarly activities and services that promote student development by encouraging professional involvement, community service, certification, and lifelong learning.
- Understand and develop effective leadership styles to successfully enter management positions in the field of recreation.
- Demonstrate competency in skills needed to design, implement, and administer a variety of programs and activities in the field of Exercise and Fitness, Sports, Outdoor Adventure, Recreation, and Leisure Services.
- Develop a knowledge base and the skills necessary to participate in lifelong recreational activities.
- Understand and be able to contribute to the enhancement in the overall quality of life for participants in the field of recreation.
• Design and outline objectives for the development of a recreation program for their specific field.
• Gain a basic knowledge regarding legal liability which is necessary to provide a safe and productive environment for participants in the field of recreation.
• Understand the importance and general principles of proper fiscal management in recreational programs.

Mission – Physical Education
The mission of the Physical Education Teaching Endorsements, within the Health, Physical Education Department is twofold:
1. To provide high quality education and training, leading to teacher certification in teaching Physical Education.
2. To provide professional, managerial, and analytical skill development for potential HPER educators.

To meet the mission of the Physical Education Teacher Education program the following National Standards for Initial Physical Education Teacher Education will be utilized.
1. Physical Education teacher candidates will know and apply discipline-specific scientific and theoretical concepts critical to the development of physically educated individuals.
2. Physical Education teacher candidates will be physically educated individuals with the knowledge and skills necessary to demonstrate competent movement performance and health-enhancing fitness as delineated in the NASPE K–12 standards.
3. Physical Education teacher candidates will be able to plan and implement developmentally appropriate learning experiences aligned with local, state, and national standards to address the diverse needs of all students.
4. Physical Education teacher candidates will use effective communication and pedagogical skills and strategies to enhance student engagement and learning.
5. Physical Education teacher candidates will use assessments and reflection to foster student learning and inform decisions about instruction.
6. Physical Education teacher candidates will demonstrate disposition essential to becoming effective professionals.

Student Learning Outcomes - Physical Education
• Define Physical Education.
• List the four components of physical fitness.
• Identify what constitutes a quality physical education program.
• Align curriculum and lesson plans to the National Association of Sport and Physical Education standards.
• Recognize processes of motor movement and assess student progress.
• Construct a quality physical education lesson plan.
  o Components of the lesson plan
  o Safety precautions
  o Equipment
  o Goals and objectives
  o Extensions and adaptations
• Adapt the physical education environment for all learners.
• Administer physical education and fitness tests that evaluate and assess the psychomotor, affective, and cognitive domains.
• Promote the value of physical education in the community.
• Integrate other content areas such as math, geography, reading, history, and science into the physical education curriculum.

Mission – Health Education
The main focus of the Chadron State College Health Education Program is to provide an endorsement in Health Education. It is the goal of the department to develop leaders in education who support the academic mission of department of Health, Physical Education and Recreation. Graduates with a health endorsement will have the knowledge to instruct students and community members to actively practice and promote good health and well-being through education, prevention, and intervention programs designed to enhance one’s ability to participate in, and benefit from acquired knowledge and experience gained in regard to living a healthy lifestyle.
To meet the mission of the Health Education Teacher Education Program the following NCATE Health Education Teacher Preparation Standards will be utilized.

1. Health Education Teacher Education candidates will demonstrate the knowledge and skills of a health literate educator.
2. Health Education Teacher Education candidates will assess needs to determine priorities for school health education.
3. Health Education Teacher Education candidates will plan effective comprehensive school health education curricula and programs.
4. Health Education Teacher Education candidates will implement health education instruction.
5. Health Education Teacher Education candidates will assess student learning.
6. Health Education Teacher Education candidates will plan and coordinate a school health education program.
7. Health Education Teacher Education candidates will serve as a resource person in health education.
8. Health Education Teacher Education candidates will communicate and advocate for health and school health education.

Learning Outcomes – Health Education

- Demonstrate knowledge in the field of health by being able to comprehend concepts related to the promotion of health and the prevention of disease.
- Demonstrate the knowledge to promote health-enhancing behaviors and reduce health risks.
- Analyze and describe the influence of culture, media, technology and other factors on health.
- Demonstrate the ability to use interpersonal communication skills to enhance health.
- Demonstrate the ability to promote goal-setting and decision-making skills to enhance health.
- Demonstrate the knowledge to promote personal, family and community health.

The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN SPORTS AND RECREATION MANAGEMENT: A student must complete the Essential Studies requirements, the graduation literacy requirement, the following core requirements, and one of the options listed below. Consultation with an advisor is recommended to help plan the sequencing of classes.

Core Requirements

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HPER 226</td>
<td>Safety and First Aid</td>
<td>2</td>
</tr>
<tr>
<td>HPER 234</td>
<td>Introduction to Recreation</td>
<td>3</td>
</tr>
<tr>
<td>*HPER 333</td>
<td>Leadership in Recreation</td>
<td>3</td>
</tr>
<tr>
<td>HPER 335</td>
<td>Org &amp; Admin of HPER</td>
<td>3</td>
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* Requires a Prerequisite

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HPER 437</td>
<td>Legal Aspects of Sports &amp; Rec.</td>
<td>3</td>
</tr>
<tr>
<td>HPER 440</td>
<td>Prevention &amp; Care of Ath Injuries</td>
<td>3</td>
</tr>
<tr>
<td>HPER 449</td>
<td>Event and Facility Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>HPER 490</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 230</td>
<td>Principles of Management</td>
<td>3</td>
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<td>MKTG 231</td>
<td>Principles of Marketing</td>
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Total 29

Exercise Science Option

Core Requirements

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<tr>
<td>HPER 108</td>
<td>Fitness Activities</td>
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<tr>
<td>#HPER 209</td>
<td>Advanced Fitness Activities</td>
<td>3</td>
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<tr>
<td>HPER 223</td>
<td>Aquatics and Water Safety</td>
<td>3</td>
</tr>
<tr>
<td>HPER 232</td>
<td>Anatomical &amp; Physiological Kines</td>
<td>3</td>
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* Requires a Prerequisite

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<th>Course Title</th>
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<tbody>
<tr>
<td>*HPER 336</td>
<td>Fitness Eval &amp; Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>HPER 429</td>
<td>Motor Movement</td>
<td>3</td>
</tr>
<tr>
<td>*HPER 439 &amp; 439L</td>
<td>Biomechanics of Sports &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>FCS 447</td>
<td>Nutrition for Sport and Wellness</td>
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Total 53

Outdoor Adventure Option

Core Requirements

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<tbody>
<tr>
<td>AGRI 235</td>
<td>Intro to Wildlife Management</td>
<td>3</td>
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<tr>
<td>GEOS 137</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>HPER 102</td>
<td>Shooting Activities</td>
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<td>HPER 120</td>
<td>Outdoor Activities</td>
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<tr>
<td>HPER 223</td>
<td>Aquatics and Water Safety</td>
<td>3</td>
</tr>
<tr>
<td>HPER 422</td>
<td>Introduction to Adapted PE</td>
<td>3</td>
</tr>
<tr>
<td>*HPER 436</td>
<td>Outdoor Adventure Skills</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 52

* Requires a Prerequisite
Sport Leadership Option

Core Requirements ........................................... 29
HPER 220 Theory of Coaching ....................... 2
HPER 336 Fitness Eval & Exercise Prescription .. 3
HPER 232 Anatomical & Physiological Kines .... 3

*Requires a Prerequisite

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 Essential Studies and Professional Education Requirements for a Secondary Endorsement. Students pursuing this major must complete HPER 233 as the Personal and Social Responsibilities Essential Studies requirement.

HPER 107 Individual Sport Activities ............... 3
HPER 108 Fitness Activities .............................. 3
HPER 122 Foundations of Health & PE ............ 2
HPER 207 Team Sport Activities ...................... 3
HPER 223 Aquatics and Water Safety ............... 3
HPER 226 Safety & First Aid ............................. 2
HPER 232 Anatomical & Physiological Kines .... 3
HPER 236 Health Topics ................................. 3
HPER 325 Teaching Individual & Dual Sports ... 3
*HPER 336 Fitness Eval & Exercise Prescription .. 3

*Requires a Prerequisite

The Degree of Bachelor of Science in Education with a SUBJECT ENDORSEMENT IN PHYSICAL EDUCATION (K-6): A student must complete the following program in addition to the Essential Studies and Professional Education Requirements, including EDUC 431C Special Methods.

HPER 107 Individual Sport Activities ............... 3
HPER 108 Fitness Activities .............................. 3
HPER 122 Foundations of Health & PE ............ 2
HPER 226 Safety & First Aid ............................. 2
HPER 232 Anatomical & Physiological Kines .... 3
HPER 335 Org & Admin of HPER & Athletics .... 3
HPER 339 Theory of Physical Education K-8 ...... 3

*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 Essential Studies and Professional Education Requirements.

HPER 107 Individual Sport Activities ............... 3
HPER 108 Fitness Activities .............................. 3
HPER 122 Foundations of Health & PE ............ 2
HPER 223 Aquatics and Water Safety ............... 3
HPER 226 Safety & First Aid ............................. 2
HPER 232 Anatomical & Physiological Kines .... 3
HPER 325 Teaching Individual & Dual Sports ... 3

*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 Essential Studies and Professional Education requirements. Students pursuing this major must complete HPER 233 as the Personal and Social Responsibility Essential Studies requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 320 Aging and Death</td>
<td>3</td>
<td>HPER 335 Org &amp; Admin of HPER &amp; Athletics</td>
<td>3</td>
</tr>
<tr>
<td>FCS 247 Nutrition</td>
<td>3</td>
<td>*HPER 431 Community &amp; Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>HPER 122 Foundations of Health &amp; PE</td>
<td>2</td>
<td>HPER 435 Curriculum Planning in PE &amp; Health</td>
<td>3</td>
</tr>
<tr>
<td>HPER 226 Safety &amp; First Aid</td>
<td>2</td>
<td>*HPER 441 Coordinated School Health Programs</td>
<td>3</td>
</tr>
<tr>
<td>HPER 232 Anatomical &amp; Physiological Kines</td>
<td>3</td>
<td>PSYC 131 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HPER 236 Health Topics</td>
<td>3</td>
<td>FCS 332 Family Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total 34</td>
<td></td>
</tr>
</tbody>
</table>

*Requires a Prerequisite

The Degree of Bachelor of Science in Education with a MIDDLE GRADES CONTENT AREA OF SPECIALIZATION IN HEALTH AND PHYSICAL EDUCATION (GRADES 4-9): The student must complete the following program in addition to a Field Endorsement in middle grades 4-9, another Content Area of Specialization, and Essential Studies requirements. Students pursuing this major must complete HPER 233 as the Personal and Social Responsibility Essential Studies requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 232 Anatomical and Physiological Kines</td>
<td>3</td>
<td>HPER 429 Motor Movement</td>
<td>3</td>
</tr>
<tr>
<td>HPER 325 Teaching Individual and Dual Sports</td>
<td>3</td>
<td>HPER 435 Curriculum Planning in PE &amp; Health</td>
<td>3</td>
</tr>
<tr>
<td>HPER 339 Theory of Physical Education K-8</td>
<td>3</td>
<td>HPER 432 Tests &amp; Measurements in PE</td>
<td>3</td>
</tr>
<tr>
<td>HPER 422 Intro to Adapted PE</td>
<td>3</td>
<td>Total 21</td>
<td></td>
</tr>
</tbody>
</table>

SUPPLEMENTAL ENDORSEMENT IN COACHING (7-12): A student must complete the following program in addition to a Subject or Field Endorsement, Professional Education, and Essential Studies requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 220 Theory &amp; Principles of Coaching</td>
<td>2</td>
<td>HPER 440 Prevention &amp; Care of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>HPER 226 Safety &amp; First Aid</td>
<td>2</td>
<td>HPER 449 Event and Facility Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>HPER 335 Org &amp; Admin of HPER &amp; Athletics</td>
<td>3</td>
<td>*HPER 453 Sports Officiating</td>
<td>3</td>
</tr>
<tr>
<td>*HPER 421 Phil &amp; Psyc Foundation of Sport</td>
<td>2</td>
<td>HPER 490 Internship</td>
<td>3</td>
</tr>
<tr>
<td>HPER 437 Legal Aspects of Sports &amp; Rec</td>
<td>3</td>
<td>*Electives in Coaching (HPER 321, 322, 323, 423, 424, 425, 426)</td>
<td>6</td>
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<tr>
<td></td>
<td></td>
<td>Total 30</td>
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</tbody>
</table>

*Requires a Prerequisite

MINORS in Health, Physical Education, and Recreation

Exercise Science:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 108 Fitness Activities</td>
<td>3</td>
<td>*HPER 336 Fitness Eval &amp; Exercise Prescription</td>
<td>1</td>
</tr>
<tr>
<td>HPER 122 Foundations of Health &amp; PE</td>
<td>2</td>
<td>*HPER 439 &amp; 439L Biomechanics of Sports &amp; Lab</td>
<td>3</td>
</tr>
<tr>
<td>HPER 209 Advanced Fitness Activities</td>
<td>3</td>
<td>FCS 447 Nutrition for Sport and Wellness</td>
<td>3</td>
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<tr>
<td>HPER 223 Aquatics and Water Safety</td>
<td>3</td>
<td>Total 21</td>
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<tr>
<td>HPER 232 Anatomical &amp; Physiological Kines</td>
<td>3</td>
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</table>

*Requires a Prerequisite

Outdoor Adventure:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 102 Shooting Activities</td>
<td>3</td>
<td>HPER 234 Introduction to Recreation</td>
<td>3</td>
</tr>
<tr>
<td>HPER 120 Outdoor Activities</td>
<td>3</td>
<td>HPER 422 Introduction to Adapted PE</td>
<td>3</td>
</tr>
<tr>
<td>HPER 221 Camp Counseling</td>
<td>2</td>
<td>*HPER 436 Outdoor Adventure Skills</td>
<td>3</td>
</tr>
<tr>
<td>HPER 223 Aquatics and Water Safety</td>
<td>3</td>
<td>Total 22</td>
<td></td>
</tr>
<tr>
<td>HPER 226 Safety &amp; First Aid</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Requires a Prerequisite

Sports Leadership:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 220 Theory &amp; Principles of Coaching</td>
<td>2</td>
<td>HPER 440 Prevention &amp; Care of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>HPER 226 Safety &amp; First Aid</td>
<td>2</td>
<td>HPER 453 Sports Officiating</td>
<td>3</td>
</tr>
<tr>
<td>HPER 335 Org &amp; Admin of HPER &amp; Athletics</td>
<td>3</td>
<td>Electives in Coaching (HPER 321, 322, 323, 423, 424, 425, 426)</td>
<td>4</td>
</tr>
<tr>
<td>*HPER 421 Phil &amp; Psyc Foundation of Sport</td>
<td>2</td>
<td>Total 22</td>
<td></td>
</tr>
<tr>
<td>*HPER 437 Legal Aspect of Sports &amp; Rec</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Requires a Prerequisite
Physical Education (K-8): The student must complete the following program (with a minimum G.P.A. 2.50) in addition to the Essential Studies and Professional Education Requirements for Elementary Education.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPER 122</td>
<td>Foundations of Health &amp; PE</td>
<td>2</td>
</tr>
<tr>
<td>HPER 223</td>
<td>Aquatics and Water Safety</td>
<td>3</td>
</tr>
<tr>
<td>HPER 226</td>
<td>Safety &amp; First Aid</td>
<td>2</td>
</tr>
<tr>
<td>HPER 335</td>
<td>Org &amp; Admin of HPER &amp; Athletics</td>
<td>3</td>
</tr>
<tr>
<td>HPER 339</td>
<td>Theory of Physical Education K-8</td>
<td>3</td>
</tr>
<tr>
<td>HPER 427</td>
<td>Rhythmic Movement</td>
<td>2</td>
</tr>
<tr>
<td>HPER 429</td>
<td>Motor Movement</td>
<td>3</td>
</tr>
<tr>
<td>HPER 435</td>
<td>Curriculum Plan in PE&amp; Health</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

MILITARY SCIENCE LEADERSHIP – ROTC PROGRAM

General Information
The Chadron State College Army Reserve Officers Training Corps (ROTC) War Eagle Company was established in 2005 and is affiliated with the Mount Rushmore Battalion, located on the South Dakota School of Mines and Technology campus. The CSC ROTC program, administered by commissioned and noncommissioned officers of the United States Army, is open to both men and women. Courses are offered on the CSC campus, along with field exercises and social events at Camp Rapid in Rapid City, South Dakota. Military Science Leadership courses (MSL) complement any course of study providing leadership training unavailable anywhere else on campus. Participation in the ROTC Basic Course incurs no military obligation. Students completing both the Basic Course and Advanced Course may be commissioned as second lieutenants in the U.S. Army or the Nebraska National Guard.

The ROTC program is designed:
- to develop leadership and managerial potential and a basic understanding of associated professional knowledge
- to develop a strong sense of personal integrity, honor, and individual responsibility
- to provide an understanding of the fundamental concepts and principles of military art and science
- to develop an appreciation of the requirements for national security.

Attainment of these objectives will prepare students for commissioning and will establish a sound basis for future professional development and effective performance in the Army or any chosen career field.

In the traditional four-year program, the student enrolls in eight consecutive semesters of MSL courses, two (2) credit hours each semester for the first two (2) years, and four (4) credit hours for the last two (2) years. Leadership laboratories are offered concurrently with each of the classroom courses.

Non-traditional two-year programs include eligible veterans with prior military service, current members of the US Army Reserve or Army National Guard, and students who have had high school Junior ROTC or Civilian Air Patrol experience. A two year program is available for any student having four academic semesters remaining or enrollment into a Masters degree program after attending a summer ROTC Leadership Training Course at Fort Knox, Kentucky. Participation at the basic course does not carry any commitment to participate in ROTC but it does satisfy the prerequisites necessary to enter the final four semesters of ROTC.

Contact Information – for more information about the ROTC program contract:

ROTC
Chadron State College
Crites Hall
308-432-6030

Curriculum
ROTC provides both leadership training and experience demanded by both Corporate America and the U.S. Army. ROTC consists of Basic and Advanced courses of instructions. The Basic Course consists of the first four semesters of MSL, including MSL 101, 102, 201, 202 and associated labs. It is designed to provide all college students with leadership and management skills demanded in today’s workplace. Participation in the Basic Course requires no obligation or commitment to continue in ROTC or serve in the Armed Forces.

The Advanced Course consists of the last four semesters of the ROTC program. The Advanced Course is offered to students possessing the potential to become Army officers and who desire to serve as commissioned officers in the Active Army, U.S. Army Reserve, or the Army National Guard. The objective of the Advanced Course is to select, train, and prepare students for military service.
### Basic Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSL 101</td>
<td>Leadership and Personal Development</td>
<td>1</td>
</tr>
<tr>
<td>MSL 101L</td>
<td>Leadership &amp; Personal Dev Lab</td>
<td>1</td>
</tr>
<tr>
<td>MSL 102</td>
<td>Introduction to Tactical Leadership</td>
<td>1</td>
</tr>
<tr>
<td>MSL 102L</td>
<td>Introduction to Tactical Leadership Lab</td>
<td>1</td>
</tr>
<tr>
<td>MSL 201</td>
<td>Innovative Team Leadership</td>
<td>2</td>
</tr>
<tr>
<td>MSL 201L</td>
<td>Innovative Team Leadership Lab</td>
<td>1</td>
</tr>
<tr>
<td>MSL 202</td>
<td>Foundations of Tactical Leadership</td>
<td>2</td>
</tr>
<tr>
<td>MSL 202L</td>
<td>Foundations of Tactical Leadership Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

### Advanced Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 460</td>
<td>American Military History</td>
<td>3</td>
</tr>
<tr>
<td>MSL 301</td>
<td>Adaptive Team Leadership</td>
<td>3</td>
</tr>
<tr>
<td>MSL 301L</td>
<td>Adaptive Team Leadership Lab</td>
<td>2</td>
</tr>
<tr>
<td>MSL 302</td>
<td>Leadership in Changing Environments</td>
<td>3</td>
</tr>
<tr>
<td>MSL 302L</td>
<td>Leadership in Changing Env. Lab</td>
<td>2</td>
</tr>
<tr>
<td>MSL 394</td>
<td>Advanced Military Science Internship</td>
<td>4</td>
</tr>
<tr>
<td>MSL 401</td>
<td>Developing Adaptive Leaders</td>
<td>2</td>
</tr>
<tr>
<td>MSL 401L</td>
<td>Developing Adaptive Leaders Lab</td>
<td>1</td>
</tr>
<tr>
<td>MSL 402</td>
<td>Leadership in a Complex World</td>
<td>2</td>
</tr>
<tr>
<td>MSL 402L</td>
<td>Leadership in a Complex World Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

### Total 33 Credits

Students must additionally complete a course in the following areas to satisfy commissioning requirements: 1) American Military History, 2) Communications, and 3) Computer Literacy. Consult the Professor of Military Science Leadership for more information.

### Ranger Challenge

Ranger Challenge is available as an option to all cadets. These classes provide practical experience in small unit leadership development, team building, and officers’ technical/tactical skills, including rifle marksmanship, orienteering, mountaineering, weapons proficiency, physical training, and small unit leadership skills. Each course listed below may be taken twice for a maximum of four (4) credit hours each. This class culminates with a varsity level competition against other ROTC programs in the region.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSL 290</td>
<td>Basic Small Unit Leadership</td>
<td>2</td>
</tr>
<tr>
<td>MSL 480</td>
<td>Advanced Small Unit Leadership</td>
<td>2</td>
</tr>
</tbody>
</table>

### Electives

ROTC Electives are provided to cadets on a case by case basis to further advance their military training and prepare them to lead troops after graduation. These classes are also used to facilitate non-traditional students who desire to participate in the ROTC program. Consult the Professor of Military Science Leadership for course information and credit available.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSL 291</td>
<td>Internship in Leadership I</td>
<td></td>
</tr>
<tr>
<td>MSL 294</td>
<td>ROTC Summer Leadership Internship</td>
<td></td>
</tr>
<tr>
<td>MSL 403</td>
<td>Third Year Advanced Military Science</td>
<td></td>
</tr>
<tr>
<td>MSL 404</td>
<td>Third Year Advanced Military Science</td>
<td></td>
</tr>
<tr>
<td>MSL 411</td>
<td>Developing Subordinate Leaders I</td>
<td></td>
</tr>
<tr>
<td>MSL 412</td>
<td>Developing Subordinate Leaders II</td>
<td></td>
</tr>
<tr>
<td>MSL 491</td>
<td>Advanced Internship in Leadership</td>
<td></td>
</tr>
<tr>
<td>MSL 494</td>
<td>Leader Development &amp; Assessment</td>
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</tr>
</tbody>
</table>

### Minor in Military Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLS 301</td>
<td>ROTC Adaptive Team Leadership</td>
<td>2</td>
</tr>
<tr>
<td>MLS 301L</td>
<td>ROTC Adaptive Team Leaders Lab</td>
<td>2</td>
</tr>
<tr>
<td>MLS 302</td>
<td>LDRSHIP in Changing Environment</td>
<td>2</td>
</tr>
<tr>
<td>MLS 302L</td>
<td>LDRSHIP in Changing Environ Lab</td>
<td>2</td>
</tr>
<tr>
<td>MLS 401</td>
<td>ROTC Developing Adaptive Leadership</td>
<td>2</td>
</tr>
<tr>
<td>MLS 401L</td>
<td>ROTC Dev Adaptive Leadership L</td>
<td>2</td>
</tr>
<tr>
<td>MLS 402</td>
<td>Leadership in a Complex World</td>
<td>2</td>
</tr>
<tr>
<td>MLS 402L</td>
<td>Leadership in Complex World L</td>
<td>1</td>
</tr>
<tr>
<td>HIST 460</td>
<td>American Military History</td>
<td>3</td>
</tr>
<tr>
<td>MLS 109</td>
<td>Military Fitness</td>
<td>3</td>
</tr>
</tbody>
</table>

### Total 21 Credits

### Financial Information

Financial support in the form of a tax free stipend is paid to contracted cadets. The amount of this stipend is $350 per month for freshmen, $400 per month for sophomores, $450 per month for juniors and $500 per month for seniors. The stipend is paid for up to ten months per calendar year to contracted cadets who are enrolled in ROTC. Students attending the four-week ROTC Leadership Training Course or the 32 day Leaders Development and Assessment Course (LDAC) receive approximately $800 plus room, board, and travel expenses.

Additional financial aid is available to eligible freshman, sophomore, and junior students in the form of four-year, three-year, and two-year Army ROTC scholarships. Required texts and class materials will be provided at no cost to the student. Military equipment will be issued for use to students and will have to be returned at the end of the course. MSL credit may be applied as free electives toward graduation.
Extracurricular Activities

Military-related extracurricular activities and organizations available to the ROTC student include Pershing Rifles, Scabbard and Blade, participation in the Bataan Memorial Death March, and the Ranger Challenge team. Students may also take part in voluntary hands-on training to include physical fitness, self-defense, survival, weapons, orienteering, rappelling, mountaineering, and first aid. These exercises are designed to provide the student with an opportunity to practice and improve skills learned in the classroom.

MUSIC

Mission

It is the mission of the Department of Music at Chadron State College to provide students a rich environment in which to pursue their musical interests and career goals. With a broad-based curriculum, the undergraduate programs offered are designed to prepare students for a variety of careers in both the public and the private sectors. The CSC Department of Music strives to set and maintain high standards of excellence in providing musical leadership to the campus and to the service region as the premier four-year institution of higher education in the Nebraska Panhandle.

Student Learning Outcomes

- Students will demonstrate acquired musical skills by performing alone and in ensembles.
- Students will notate, analyze, and describe music using a common vocabulary.
- Students will develop an appreciation for and knowledge of the history of music as it relates to form, style, performance practice, and the other arts.
- Students will be able to formulate strategies and demonstrate skills directly related to their degree program.

Requirements

1. Music majors and minors are required to participate in the major performing ensemble directly related to their major performing instrument/voice each semester.
2. Students in all degree programs (B.S.E. and B.A.) are required to pass a Piano Proficiency Examination before attempting the Sophomore Qualifying Exam (MUS 299) on their major instrument.
3. The Department of Music requires that music majors and minors receive a grade of “C” or higher in all music coursework in order to receive departmental approval for graduation.
4. Transfer students from a two (2) year institution must complete 50% of the required courses for the major from Chadron State College.

The Degree of Bachelor of Arts with a SUBJECT MAJOR IN MUSIC STUDIES: A student must complete the following program in addition to the General Studies requirements, the graduation literacy requirement and a major or minor in another discipline. Recommended minors include Art, Communication Arts, English, History, Library Information Management, Psychology, and Theater. No grade lower than “C” in any required music course will apply toward graduation. Incoming students should plan to take the theory and piano placement exams during the first week of classes.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 101 Student Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUS 102/302 Wind Symphony</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MUS 103/303 Concert Choir</td>
<td>6</td>
</tr>
<tr>
<td>MUS 115 Private Instruction</td>
<td>2</td>
</tr>
<tr>
<td>MUS 131&amp; 131L Theory I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>MUS 132 &amp; 132L Theory II &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>MUS 199 Admission to Candidacy</td>
<td>0</td>
</tr>
<tr>
<td>MUS 215 Private Music Instruction</td>
<td>2</td>
</tr>
<tr>
<td>MUS 220 Functional Piano Skills OR</td>
<td></td>
</tr>
<tr>
<td>MUS 231, 231L, 232, 232L, 238, 315o (up to 3 cr.), 319a, 319b, 321, 322, 329, 335, 336, 413, 419, 423, 424, 426, 427, 430</td>
<td>36</td>
</tr>
</tbody>
</table>

Electives to be chosen from the following: MUS 231, 231L, 232, 232L, 238, 315o (up to 3 cr.), 319a, 319b, 321, 322, 329, 335, 336, 413, 419, 423, 424, 426, 427, 430
The Degree of Bachelor of Arts with a COMPREHENSIVE MAJOR IN MUSIC: A student must complete the core requirements, an option, graduation literacy and General Studies requirements. No grade lower than “C” in any required music course will apply toward graduation. Incoming students should plan to take the theory and piano placement exams during the first week of classes.

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 231 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MUS 101 Student Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUS 115 Private Instruction</td>
<td>2</td>
</tr>
<tr>
<td>MUS 131 &amp; 131L Theory I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>MUS 132 &amp; 132L Theory II &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>MUS 199 Admission to Candidacy</td>
<td>0</td>
</tr>
<tr>
<td>MUS 215 Private Music Instruction</td>
<td>2</td>
</tr>
<tr>
<td>MUS 238 Principles of Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUS 299 Sophomore Qualifying Exam</td>
<td>0</td>
</tr>
<tr>
<td>MUS 315 Private Instruction</td>
<td>2</td>
</tr>
<tr>
<td>MUS 399 Solo Half Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUS 427 Music History II</td>
<td>3</td>
</tr>
<tr>
<td>MUS 104/304, 105/305, 106/306, 107/307, 108/308, 109/309, 110/310, 124/324 or 125/325 Chamber Ensembles</td>
<td>4</td>
</tr>
<tr>
<td>MUS 220 Functional Piano Skills</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MUS 315r Instrument Repair</td>
<td></td>
</tr>
<tr>
<td>MUS 319 Music Studio Operations</td>
<td>1-2</td>
</tr>
<tr>
<td>MUS 415 Private Music Instruction</td>
<td>2</td>
</tr>
<tr>
<td>MUS 426 Music History I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 428 Music of the 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>MUS 499 Solo Full Recital</td>
<td>0</td>
</tr>
<tr>
<td>Electives</td>
<td>3-4</td>
</tr>
<tr>
<td>Total</td>
<td>26</td>
</tr>
</tbody>
</table>

Electives to be chosen from the following: MUS 238, 315o, 315r, 319a, 319b, 321, 322, 335, 336, 413, 419, 423, 424, 430

**Vocal Majors must enroll in Diction for Singers.

Music Business Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Requirement</td>
<td>26</td>
</tr>
<tr>
<td>MKTG 331 Sales Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 335 Entrepreneurial Business Start-Up</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MUS 335 Recording Techniques</td>
<td>2</td>
</tr>
<tr>
<td>MUS 336 Jazz Improvisation I</td>
<td>2**</td>
</tr>
<tr>
<td>MUS 390 Internship</td>
<td>1***</td>
</tr>
<tr>
<td>MUS 413 Songwriting/Arr &amp; MIDI I</td>
<td>2**</td>
</tr>
<tr>
<td>MUS 419 Music Business</td>
<td>3</td>
</tr>
<tr>
<td>MUS 421 Emphasis Instrumental/Vocal or Piano Studio Oper</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>57</td>
</tr>
</tbody>
</table>

Instrumental/Vocal Emphasis: MUS 102/302 or MUS 103/303 (7 cr.); MUS 220*; MUS 420; BIS 332

Music Studio Operations Emphasis: MUS 102/302 or MUS 103/303 (4 cr.); MUS 317 or 220; MUS 319a and b; MUS 329; MUS 423 and MUS 424, or MUS 251 (2cr.)

The following courses are strongly recommended as supportive electives for the Music Business Option: MUS 104/304, 105/305, 106/306, 330, 335, 337, 414

NOTE: 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, or a substitution suggested by the advisor and approved by the faculty based on the student’s career goals.
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, graduation literacy and Professional Education requirements, including successful completion of MUS 431a, Elementary Music Endorsement, and MUS 431b, Secondary Music Endorsement. Incoming students should plan to take the theory and piano placement exams during the first week of classes.

MUS 101 Student Recital .............................................. 0
MUS 102/302 Wind Symphony ....................................... 0
OR
MUS 103/303 Concert Choir .......................................... 6*
MUS 114 Introduction to Music Education ....................... 2
MUS 115 Private Music Instruction ................................. 2
MUS 131 & 131L Theory I & Lab .................................... 4
MUS 132 & 132L Theory II & Lab .................................... 4
MUS 199 Admission to Candidacy ................................... 0
MUS 215 Private Music Instruction ................................. 2
MUS 220 Functional Piano Skills .................................... 0
OR
MUS 317 Seminar in Accompanying Techniques ............... 2
MUS 221 Keyboard Skills for the Class Teacher ............... 2
MUS 231 & 231L Theory III & Lab .................................. 4
MUS 232 & 232L Theory IV & Lab .................................... 4
MUS 238 Diction for Singers ......................................... 1

Electives in Jazz may be selected from among the following: MUS 104/304, 105/305, 106/306, or 336
*Students must complete at least one credit hour of both band and choir to meet state accreditation requirements.
**This is a one credit hour repeatable course. Students may move to the next course in the sequence based on the completion of student learning outcomes. Transfer students may be asked to complete performance assessment in order to substitute coursework from other institutions.

The following classes are recommended as supportive classes: MUS 216, 315r, 329, 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. It is strongly recommended that a student complete this program in conjunction with a K-8 Elementary Education Endorsement program, in addition to the General Studies and graduation literacy requirements, the Professional Education requirements, and MUS 431a, Elementary Music Endorsement. Students who pursue the K-8 endorsement are recommended to substitute MUS 329 for MUS 333 (see Education degree requirements).Incoming students should plan to take the theory and piano placement exams during the first week of classes.

MUS 101 Student Recital .............................................. 0
MUS 103/303 Concert Choir ......................................... 4
MUS 115S Private Music Instruction (Voice) ................. 2
MUS 131 & 131L Theory I & Lab .................................... 4
MUS 132 & 132L Theory II & Lab .................................... 4
MUS 199 Admission to Candidacy .................................. 0
MUS 215S Private Music Instruction (Voice) ................. 2
MUS 220 Guitar Class ................................................. 1
MUS 220 Functional Piano Skills .................................... 0
OR
MUS 317 Seminar in Accompanying Techniques ............... 2
MUS 221 Keyboard Skills for the Class Teacher ............... 2
MUS 240 Principles of Conducting ................................. 2
MUS 250 Music Education Practicum, K-8 ................. 1
MUS 252 Music Education Practicum, K-8 ................. 1
MUS 299 Sophomore Qualifying Examination ............... 0
MUS 321 Choral Conducting ......................................... 2
MUS 426 Music History I ............................................. 3
MUS 427 Music History II ............................................. 3

Total 33
**MINORS in Music**

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 101</td>
<td>Student Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUS 115</td>
<td>Private Instruction</td>
<td>2</td>
</tr>
<tr>
<td>MUS 131 &amp; 131L</td>
<td>Theory I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>MUS 199</td>
<td>Admission to Candidacy</td>
<td>0</td>
</tr>
<tr>
<td>MUS 215</td>
<td>Private Instruction</td>
<td>1</td>
</tr>
<tr>
<td>MUS 427</td>
<td>Music History II</td>
<td>3</td>
</tr>
<tr>
<td>Music Performance*</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Music Electives**</td>
<td></td>
<td>7</td>
</tr>
</tbody>
</table>

*Total 21*


**Music (K-8):** A student must complete the following program in addition to the General Studies and Professional Education, Elementary Education requirements, including MUS 431a, Special Methods in Elementary Education. Please note that music performance courses are one credit each. It takes 4 semesters to complete a 4 credit requirement for a performing ensemble. Incoming students should plan to take the theory and piano placement exams during the first week of classes.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 101</td>
<td>Student Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUS 103/303</td>
<td>Concert Choir</td>
<td>4</td>
</tr>
<tr>
<td>MUS 115S</td>
<td>Private Music Instruction (Voice)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 131 &amp; 131L</td>
<td>Theory I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>MUS 199</td>
<td>Admission to Candidacy</td>
<td>0</td>
</tr>
<tr>
<td>MUS 215S</td>
<td>Private Music Instruction (voice)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 220</td>
<td>Functional Piano Skills</td>
<td></td>
</tr>
<tr>
<td>MUS 250</td>
<td>Music Education Practicum, K-8</td>
<td>1</td>
</tr>
<tr>
<td>MUS 271</td>
<td>Seminar in Accompanying Techniques</td>
<td>2</td>
</tr>
<tr>
<td>MUS 317</td>
<td>Music Education Practicum, K-8</td>
<td>1</td>
</tr>
<tr>
<td>MUS 420</td>
<td>Music History I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 426</td>
<td>Music History I</td>
<td>3</td>
</tr>
</tbody>
</table>

*Total 20*

**Note:** Entrance to many of the above ensembles is by audition.

**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 Essential Studies (must take HIST 231: U.S. History to 1877 for SLO 8 requirement), graduation literacy and Professional Education requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 232</td>
<td>U.S. History from 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 233</td>
<td>Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 234</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 321</td>
<td>History of the Pacific Rim</td>
<td>3</td>
</tr>
<tr>
<td>HIST 331</td>
<td>Latin American History</td>
<td>3</td>
</tr>
<tr>
<td>Electives in U.S. History (upper division)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Elective in World History (upper division)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective in Political Science (upper division)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Focus area in PS, or ANTHR</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Additional SS electives, as below</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

*Total 60*

**Nine (9) hours from either Anthropology or Political Science for a Focus Area:**

**Political Science:** PS 231, PS 332, or PS 341, and PS 420 or PS 434

**Anthropology:** ANTHR 231, 337 and 435

Additional Social Science courses other than focus area:

At least six hours from each of four disciplines not in the chosen Focus Area (24 hours total).

- Anthropology (231, 337 or 435)
- Political Science (231 or 341 and upper division elective)
- Economics (130 and 332 or 231 and 232)
- Psychology (131 and elective)
- Geography (231 and 232)
The Degree of Bachelor of Science in MIDDLE GRADES CONTENT AREA OF SPECIALIZATION IN SOCIAL SCIENCE (GRADES 4-9): A student must complete the following program in addition to the General Studies, graduation literacy and Professional Education, Middle Grade requirements and one other Content Area of Specialization requirement. Students seeking the Middle Grades Content Area endorsement must take HIST 231 and 232 in fulfillment of the General Studies History requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 130</td>
<td>Survey of Economics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 232</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 233</td>
<td>Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 234</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 231</td>
<td>U.S. History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 232</td>
<td>U.S. History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 233</td>
<td>Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 234</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 331</td>
<td>Latin American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 430</td>
<td>History of the American Indian</td>
<td>3</td>
</tr>
<tr>
<td>PS 231</td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>SOC 231</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 21

MINOR in Social Science (K-6)
A student must complete the following program in addition to the General Education and Professional Education, Elementary Education requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 232</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 231</td>
<td>U.S. History to 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 232</td>
<td>U.S. History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 233</td>
<td>Western Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 234</td>
<td>Western Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>HIST 331</td>
<td>Latin American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 430</td>
<td>History of the American Indian</td>
<td>3</td>
</tr>
<tr>
<td>PS 231</td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>SOC 231</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Electives in GEOG, SOC, PS</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total 21

COURSE DESCRIPTIONS

ACCOUNTING

ACTG 160  Topics in Accounting  Credit 1-3 hours
Topics or seminars will be selected as needed to keep students abreast of contemporary issues in accounting.

ACTG 241  Accounting Principles I  Credit 3 hours
Introduction to financial accounting principles & the communication of financial information to external users. Examines the conceptual foundations, accounting processes, transaction analysis, & preparation of the four basic financial statements: income statement, balance sheet, equity statement & statement of cash flows.

ACTG 242  Accounting Principles II  Credit 3 hours
Introduction to managerial accounting principles & the communication of financial information to internal users. Emphasis on budgeting, planning, management decision making, cost behavior, cost control & product cost accumulation. Prerequisite: ACTG 241 or equivalent.

ACTG 332  Accounting Information Systems  Credit 3 hours
Focuses on the collecting, processing & communication of financial information in an organization to both internal & external users. An entity's processing cycles are studied. Prerequisite: ACTG 241 and ACTG 242 or equivalencies.

ACTG 337  Cost Management Accounting  Credit 3 hours
Cost accounting & managerial accounting concepts & procedures are applied to the management decision making process. Topics included are: activity-based costing, job-order costing & process costing. Prerequisites: ACTG 241 & ACTG 242 or equivalencies.
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 241, 242 or equivalencies.

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 241, 242 and 341 or equivalencies.

ACTG 340 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. Prerequisites: ACTG 241, 242 and 341 or equivalencies.

ACTG 341 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 241, 242, and 430 or equivalencies.

ACTG 343 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 241, 242 and 341 or equivalencies.

ACTG 347 Advanced Cost Management Accounting  Credit 3 hours
Advanced cost accounting & managerial accounting concepts & procedures are applied to the management decision making process. Topics included are: capital investment decisions, budgeting, standard costing, & transfer pricing. Prerequisites: ACTG 241, 242 and 337 or equivalencies.

ACTG 348 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. Prerequisites: ACTG 241, 242 and 341 and 342 or equivalencies.

ACTG 443 Advanced Financial Accounting  Credit 3 hours
Accounting theory and problems dealing with corporate combinations and consolidations and other specialized financial accounting topics. Prerequisites: ACTG 241, 242, 341 and 342 or equivalencies.

ACTG 460 Topics in Accounting  Credit 1-3 hours
Topics or seminars will be selected as needed to keep students abreast of contemporary issues in accounting.

AGRICULTURE

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 3 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, and environmental relationship to growth, adaptation, biotechnology, and management of plants.

AGRI 151 Foundations of Nutrition and Metabolism  Credit 3 hours
The fundamental aspects of nutrients and their metabolism will be presented. This course is designed for students with an interest in human or animal nutrition. Cross-listed as FCS 151.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 160</td>
<td>Special Topics</td>
<td>1-3</td>
<td>Special topics appropriate for lower division credit. May be repeated with different emphases for up to six hours of credit.</td>
</tr>
<tr>
<td>AGRI 234</td>
<td>Principles of Animal Nutrition</td>
<td>2</td>
<td>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.</td>
</tr>
<tr>
<td>AGRI 234L</td>
<td>Principles of Animal Nutrition Laboratory</td>
<td>1</td>
<td>Lab experience. Must be taken concurrently with AGRI 234.</td>
</tr>
<tr>
<td>AGRI 235</td>
<td>Introduction to Wildlife Management</td>
<td>3</td>
<td>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.</td>
</tr>
<tr>
<td>AGRI 242</td>
<td>Principles of Rangeland and Forage Management</td>
<td>3</td>
<td>Emphasizes rangeland history, ecology, physiology of rangeland productivity and utilization, grazing management, rangeland improvements, and domestic livestock and wildlife management. Also includes forage production, harvesting, storage, rotations and pasture management. Must be taken concurrently with AGRI 242L.</td>
</tr>
<tr>
<td>AGRI 242L</td>
<td>Principles of Rangeland and Forage Management Laboratory</td>
<td>1</td>
<td>Lab experience. Must be taken concurrently with AGRI 242.</td>
</tr>
<tr>
<td>AGRI 245</td>
<td>Principles of Soil Science</td>
<td>3</td>
<td>Origin, development, classification, and management of soils that affect plant growth. Must be taken concurrently with AGRI 245L.</td>
</tr>
<tr>
<td>AGRI 245L</td>
<td>Principles of Soil Science Laboratory</td>
<td>1</td>
<td>Lab experience. Must be taken concurrently with AGRI 245.</td>
</tr>
<tr>
<td>AGRI 259</td>
<td>Agricultural Economics and Agribusiness</td>
<td>3</td>
<td>Basic economic principles and theories focusing on product markets, resource markets, production costs, and market structures, conduct and performance of the agricultural sector from retail level, consumers’ demands, and resource sectors, production, domestically and globally within agriculture. Governments’ roles, functions and policies which impact domestic and global markets for agriculture. Prerequisites: Department’s Mathematics Requirement; ECON 232; or consent of the instructor.</td>
</tr>
<tr>
<td>AGRI 270</td>
<td>Special Topics</td>
<td>1-3</td>
<td>Introduction for all agriculture related majors to career options. Students will conduct independent research of selected agriculture firms or agencies. A required job shadowing experience will provide knowledge of opportunities and challenges of working in the broad agricultural job market.</td>
</tr>
<tr>
<td>AGRI 310</td>
<td>Careers in Agriculture</td>
<td>1</td>
<td>Introduction for all agriculture related majors to career options. Students will conduct independent research of selected agriculture firms or agencies. A required job shadowing experience will provide knowledge of opportunities and challenges of working in the broad agricultural job market.</td>
</tr>
<tr>
<td>AGRI 324</td>
<td>Wildlife and Livestock Disease Management</td>
<td>3</td>
<td>Outlines parasitic, infectious, and environmental diseases influencing wild and domestic animal populations. Identifies the cause of disease, routes of transmission, and affects on the individual and population. Explores management alternatives to control disease and reduce impacts on wildlife populations. Prerequisite: AGRI/BIOL 235 or AGRI 132, or consent of the instructor. Cross-listed as BIOL 324.</td>
</tr>
<tr>
<td>AGRI 325</td>
<td>Rangeland Wildlife Management</td>
<td>3</td>
<td>Issues and management of wildlife and their habitats on rangelands. Emphasis will be on wildlife habitat management and manipulation and the issues of co-habitation of wildlife and domestic livestock. Field</td>
</tr>
</tbody>
</table>
trips may be required. Cross-listed as BIOL 325. Prerequisite: Sophomore status or permission of instructor and Dean.

**AGRI 329 Agricultural Marketing**  
Credit 3 hours  
Market structure, conduct, and performance factors within the domestic and global marketing areas with specific emphasis on production components, agricultural resources, outputs and marketing through supply chains and channels. 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, or consent of the instructor.

**AGRI 331 Farm and Ranch Management**  
Credit 3 hours  
The skills, techniques, innovations, and current procedures for management of farms and ranches.

**AGRI 333 Ruminant Production**  
Credit 3 hours  
Principles and practices of commercial and purebred domestic and wildlife production including breeds, breeding, reproduction, diseases, marketing, management, and general husbandry. Must be taken concurrently with AGRI 333L.

**AGRI 333L Ruminant Production Laboratory**  
Credit 1 hour  
Lab experience. Must be taken concurrently with AGRI 333.

**AGRI 334 Vegetation Manipulation 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 industry including conformation, performance, horse handling, diseases, housing, foot and leg care, equipment, and history.

**AGRI 336 Non-Ruminant Production**  
Credit 3 hours  
Principles and practices of non-ruminant 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 Rangeland Plant Identification**  
Credit 1 hour  
Identification of the principle rangeland 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 Rangeland Plant Identification Laboratory**  
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 346  Equine Communications I  Credit 3 hours
This course is designed as an introduction to natural horsemanship. Through the principle of making the right thing easy and the wrong thing difficult, students will learn the fundamental nature of round penning young horses. Students will build a strong foundation with aspects of controlling the forehand, haunches, shoulders and ribs.

AGRI 347  Equine Communications II  Credit 3 hours
This course is a continuation of Equine Communications I. Through the principle of making the right thing easy and the wrong thing difficult, students will learn the fundamental nature of centered riding, soft supple maneuvers, and riding with confidence. Students will learn to train horses through soft hands and communication through their seat position. Maneuvers being taught are: side pass, turn-around, correct stop, lead changes, roll-backs, circling, hip, shoulder, rib, and forehand control.

AGRI 350  Rangeland Ungulate Production  Credit 3 hours
Production of ungulates on rangelands. Includes plant and animal responses to grazing, grazing animal behavior, grazing management, supplementing Rangeland forage, and economic considerations. Prerequisite: AGRI 242 or consent of the instructor.

AGRI 390  Internship in Agriculture/Rangeland Management  Credit 1-12 hours
Provides practical experience in resource management relative to agriculture, rangeland management, natural resources, and wildlife management. 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  Rangeland Short Course  Credit 2 hours
Intensive summer workshop covering all contemporary areas of Rangeland 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 427  Animal Anatomy and Physiology  Credit 3 hours
Principles of physiology as related to gross anatomy, disease, and management practices of mammals. Recommended for pre-veterinary students. Prerequisites: AGRI 132, BIOL 225 or consent of the instructor. Must be taken concurrently with AGRI 427L.

AGRI 427L  Animal Anatomy and Physiology Laboratory  Credit 1 hour
Lab experience. Must be taken concurrently with AGRI 427.

AGRI 428  Habitat 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 428L/528L. Prerequisites: AGRI 242 and 339, or consent of the instructor.

AGRI 428L  Habitat Inventory and Analysis Laboratory  Credit 2 hours
Field lab experience. Must be taken concurrently with AGRI 428/528.
AGRI 429  Equine Industry Applied Field Studies  Credit 2 hours
This class will take a tour of equine business and training operations in different parts of the region. The purpose of this tour is to show the students the wide variety of opportunities available in the horse industry.

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 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. Prerequisites: AGRI/BIOL 235, AGRI/BIOL 426 required; AGRI/BIOL 325 recommended.

AGRI 436  Rangeland and Fire Ecology  Credit 3 hours
Principles of rangeland 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 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 438a/538a  Land Resource Management Planning I  Credit 1 hour
Inventory of soils, vegetation, water, wildlife, timber, mineral, recreation, and cropland resources of a selected farm/ranch operation or conservation area and development of a detailed management plan. Techniques of management of private and public lands. This is a Spring course with the intent of the student beginning their land planning efforts. Students taking this course must also enroll in AGRI 438b/538b Land Resource Management Planning II for 2 credit hours to achieve a total of 3 hours credit in the Land Resource Management Planning area. Prerequisites: AGRI 141, 242, 245, 334, 339, and 350 or consent of the instructor.

AGRI 438b/538b  Land Resource Management Planning II  Credit 2 hours
Inventory of soils, vegetation, water, wildlife, timber, mineral, recreation, and cropland resources of a selected farm/ranch operation or conservation area and development of a detailed management plan. Techniques of management of private and public lands. This is a Fall course with the intent of the student completing their land planning efforts. Student taking this course must also enroll in AGRI 438a/538a Land Resource Management Planning I for 1 credit hour to achieve a total of 3 hours credit in the Land Resource Management Planning area. Prerequisites: AGRI 141, 242, 245, 334, 339, and 350 or consent of the instructor.

AGRI 438c/538c  Land Resource Management Planning III  Credit 3 hours
Inventory of soils, vegetation, water, wildlife, timber, mineral, recreation, and cropland resources of a selected farm/ranch operation or conservation area and development of a detailed management plan. Techniques of management of private and public lands. This is a Fall course for primarily transfer students and students that cannot take Land Resource Management Planning I and II due to scheduling conflicts. Students must achieve a total of 3 hours credit in the Land Resource Management Planning area. Prerequisites: AGRI 141, 242, 245, 334, 339, and 350 or consent of the instructor.

AGRI 444  Grass Systematics  Credit 3 hours
The main focus of the course is on identification of members of the Poaceae, or grass, family. Students will work through grasses provided to identify them down to species. Upon completion of the class the students will be able to recognize common tribal and genera characteristics, and be able to key out unknown grasses.
AGRI 445  Mammalogy  
Credit 2 hours
Systematic, life history, physiology, and behavior of mammals. Must be taken concurrently with AGRI 445L. Field trips may be required. Cross-listed as BIOL 435.

AGRI 445L  Mammalogy Laboratory  
Credit 1 hour
Laboratory experience. Must be taken concurrently with AGRI 445. Cross-listed as BIOL 435L.

AGRI 447  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 451  Human Dimensions of Wildlife Management  
Credit 3 hours
Overviews the historic and current public viewpoints of wildlife and wildlife/human conflicts. Examines the policies which affect wildlife research and management and the impacts public opinion has on policy formation. Identifies the various stakeholders involved in natural resource management and policy and incorporates the idea that wildlife management is people management. Prerequisite: AGRI/BIOL 235, 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.

AMERICAN INDIAN STUDIES

AIS 131  Lakota Language I  
Credit 3 hours
Introduction to the Lakota language, with focus on preserving the ancient language of the Lakota, both written and spoken.

AIS 132  Lakota Language II  
Credit 3 hours
Continuation of Lakota language study with emphasis on speaking and reading skills.

AIS 334  Lakota Society and Culture  
Credit 3 hours
Focus upon the central cultural aspects of the Lakota Sioux, including tribal and political organization, and social mores and norms. Recent changes in Reservation society will be examined.

AIS 430  Topics in American Indian Studies  
Credit 3 hours
Special topics in American Indian Studies.

AIS 436  Seminar in American Indian Studies  
Credit 3 hours
Designed to meet the specific needs of a group of students. Permission of the Instructor is required.

ANTHROPOLOGY

ANTH 231  Introduction to Cultural Anthropology  
Credit 3 hours
Comparative study of a variety of human groups modern and premodern, including analysis of technology, family form, religion, other aspects of social organization, and cultural change. Methods of cultural anthropology will be discussed. Field trips may be required.

ANTH 337  People and Cultures of North America  
Credit 3 hours
Survey of indigenous cultures of North America from prehistory through contemporary societies. Emphasis is placed on the wide range of diversity exhibited by American Indians across the continent. Course content will include prehistoric Native Americans, the contact period, and contemporary American Indian societies.
ANTH 430  Topics in Anthropology  Credit 1-3 hours
Special topical studies that may include: art and religion, Native American culture, impact of technology on culture, agricultural systems, cultures of the Middle East, exploration and cultures, linguistics, and nomadism. Student may repeat the course for a maximum of 9 hours credit. Field research is possible.

ANTH 435  Northern Plains Indian Cultures  Credit 3 hours
Survey of Northern Plains Indian cultures with a focus upon aspects of cultures from both a historical and contemporary perspective, but with emphasis being placed on the contemporary cultures. The impact of modern technology and Euro-American contact on Northern Plains Indians will also be examined as well as the continuing functions of traditional Native beliefs in contemporary social, economic, political, and religious contexts.

ART

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 two dimensional design and their application in the visual language of creative art.

ART 136  Drawing II  Credit 3 hours
Continuation of drawing skills introduced in Drawing I. Students will work from both still life and live models. Prerequisite: ART 131.

ART 160  Topics in Art  Credit 1–3 hours
Special Topics in Art may be taken within a variety of media areas.

ART 223  Introduction to Photography  Credit 3 hours
Introduction to the tools and techniques of traditional darkroom black and white photography. Topics covered include camera operation, lighting, film and print development, and professional presentation. 35 MM Film Camera required.

ART 225  Printmaking I  Credit 3 hours
Introduction to fundamental processes and creative potential of printmaking, including relief, monotype, and serigraphy. Prerequisite: ART 131 or permission of instructor.

ART 226a  Metal Manufacturing Processes and Systems: Welding Processes  Credit 2 hours
Fundamentals of metal manufacturing processes, materials and systems. Discussion and application focused on welding and cutting processes and materials. Special emphasis placed on GMAW, SMAW, GTAW, PAC, OAW and FGC.

ART 226b  Metal Manufacturing Processes and Systems: Machining  Credit 1 hour
Fundamentals of metal manufacturing processes, materials and systems. Discussion and application focused on machining processes and materials. Special emphasis on lathe and mill practices as well as newer developments in industry technology.

ART 226c  Metal Manufacturing Processes and Systems: Foundry and Forging  Credit 1 hour
Fundamentals of metal manufacturing processes, materials and systems. Discussion and application focused on forging and foundry processes and materials. Special emphasis on sand and investment casting as well as gas and coal forge work.

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  
Basic techniques of pinch, coil, slab and wheel thrown ceramics, including clay mixing, glazing and kiln loading.

ART 229 Introduction to Graphic Design  
Introduction to the fundamentals of design, typography, layout, exploration of design history, the profession of graphic design and commercial art.

ART 230 Design Fundamentals II  
Fundamentals of three-dimensional design are covered through the elements and principles of form. Prerequisites: ART 131.

ART 232 Painting I  
Basic painting techniques emphasizing the use of value, and color, the development of perceptual skills, familiarization with materials and communication through the language of Art. May require field trips. Prerequisite: Art 131 or permission of instructor.

ART 239 Elements of Art  
Introduction to Art History, artists, techniques, and materials employed in the production of art. Illustrated lectures and demonstrations.

ART 245a Construction Processes & Systems: Tools and Materials  
Fundamentals of construction including wood, metal, and masonry materials. Topics include hand and power tool selection and operation, safety and material usage. Offered concurrently with TH 245a.

ART 245b Construction Processes & Systems: Techniques and Organizational Materials  
Fundamentals of construction including wood, metal, and masonry materials. Topics include the application of safe and appropriate building and construction techniques and the organization and scheduling of projects. Special emphasis on alternative and sustainable practices. Offered concurrently with TH 245b.

ART 245c Construction Processes & Systems: Material Selection And Estimation  
Fundamentals of construction including wood, metal, and masonry materials. Topics include the determination of appropriate materials and the development of cost estimates for small to medium size construction projects. Introduction to MS Excel as an estimating program. Special emphasis on alternative and sustainable practices. Offered concurrently with TH 245c.

ART 310 Art Seminar  
Study and research of Art topics and problems of interest to advanced art students. Critiques of work and an art show are required. May be repeated with a different topic.

ART 320 Figure Drawing  
Development of perceptual skills in relation to the figure. Emphasis is placed on the user of the figure as a means of self-expression. Prerequisite: ART 131 and 136.

ART 321 Glass I  
(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 and etching.

ART 322 Graphic Design I  
Intermediate-level graphic design work using design principles with an introduction to Adobe Creative Suite design software (InDesign, Photoshop, and Illustrator) through assignments and projects. Prerequisite: ART 229.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ART 323</td>
<td>Creative Photography</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Introduction to the procedures and creative potential of the photographic process. Topics will include alternative, traditional, and digital photographic techniques. 35 MM Film Camera required.</td>
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<tr>
<td>ART 325</td>
<td>Printmaking II</td>
<td>3 hours</td>
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<td></td>
<td>Introduction to intaglio techniques including drypoint, collagraph and etching. Emphasis placed on the imagery and technical understanding of processes. Prerequisite: ART 225.</td>
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<tr>
<td>ART 329</td>
<td>Graphic Design II</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Intermediate-level graphic design work focusing on web design utilizing concept, information organization, and design principles with an introduction to Dreamweaver and Flash software. Prerequisite: ART 229.</td>
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<tr>
<td>ART 330</td>
<td>Topics in Art</td>
<td>1-3 hours</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ART 331</td>
<td>Watercolor</td>
<td>3 hours</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ART 332</td>
<td>Painting II</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Advanced oil or acrylic painting techniques emphasizing the development of a personal direction and portfolio. Prerequisite: ART 232.</td>
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<tr>
<td>ART 334</td>
<td>Art for the Elementary/Middle School Teacher</td>
<td>3 hours</td>
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<td></td>
<td>Study of Discipline Based Art Education in the elementary/middle school classroom. Includes basic design, media experience, reference materials, art criticism, aesthetics, and history. Recommended prerequisites: Educational Psychology and Introduction to Teaching.</td>
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<tr>
<td>ART 337</td>
<td>Sculpture II</td>
<td>3 hours</td>
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<td></td>
<td>Advanced construction of three-dimensional forms through the use of clay, wood, wire and various other materials. Prerequisite: ART 227.</td>
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<tr>
<td>ART 338</td>
<td>Art History Survey I</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>ART 339</td>
<td>Art History Survey II</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Historical survey of Western Art from the Renaissance through Impressionism with emphasis on the social and political influences of the visual arts. Field trips may be required.</td>
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<tr>
<td>ART 340</td>
<td>Twentieth Century Art Survey</td>
<td>3 hours</td>
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<td></td>
<td>Survey of important movements and individual artists that have shaped Art History from Impressionism through the Postmodern 90s. Field trips may be required.</td>
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<tr>
<td>ART 343</td>
<td>Digital Photography</td>
<td>3 hours</td>
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<td>Course is designed to explore digital photography and its ability to electronically create images using Apple and Adobe photo systems. Students will work with computers, scanners and image editing programs. Digital Camera required.</td>
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<tr>
<td>ART 390</td>
<td>Internship in Art</td>
<td>1-12 hours</td>
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<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
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 student or group in which Independent Study or Research is done. May be repeated with a different topic. Prerequisite: permission of Art faculty.

ART 411  Graphic Design III  Credit 3 hours
Advanced-level work in graphic design. Exploration of several areas of design including logos, visual identity and branding, posters, editorial design, packaging design, annual reports, advertising, and web design. Further instruction and practice with Adobe Creative Suite design software (InDesign, Photoshop, and Illustrator). Prerequisite: ART 322 or permission of instructor.

ART 412  Senior Thesis  Credit 1 hour
Preparation of the student’s senior art exhibit and portfolio is required of all art majors. Students will be evaluated on poster design, publicity, pictorial display, gallery arrangement, creativity and craftsmanship in a broad range of media.

ART 421  Glass II  Credit 3 hours
(a) Exploration in the use of molten glass as an art medium, with attention to techniques, construction and maintenance of studio equipment. Prerequisite: ART 321A.
(b) Exploration into the advanced construction of strained glass panels. Course will cover both lead and copper foil processes. Lampworking with beads and marbles will be introduced. Prerequisite: ART 321B.

ART 422  Graphic Design Practicum  Credit 3 hours
Advanced level work in graphic design. Emphasis on multi-piece design, concept development, professional presentation and portfolio preparation. Prerequisite: ART 322, 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. Prerequisite: ART 228.

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 up to 3 times. Prerequisite: permission of Art faculty.

BIOLOGY

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 Biology  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 Biology Laboratory  Credit 1 hour
Laboratory experience in the structure and function of the human body. Must be taken concurrently with BIOL 121.

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
Laboratory experience in biological study, including using technology to explore and to gather scientific data. Must be taken concurrently with BIOL 136.

BIOL 138  General Botany  Credit 2 hours
The classification, ecology, anatomy, physiology, and phylogenetic relationships of major flowering plant groups. Must be taken concurrently with BIOL 138L.

BIOL 138L  General Botany Laboratory  Credit 1 hour
Laboratory experience in flowering plants. 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
Laboratory experience in major animal group anatomy and phylogeny. Must be taken concurrently with BIOL 139.

BIOL 221  Medical Terminology  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.

BIOL 225  Cellular Biology  Credit 3 hours
The form, function, and physiology of eukaryotic cells, prokaryotic cells, viruses, and prions. Prerequisites: 2 years high school chemistry OR CHEM 121, 131, or 140.

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. Prerequisite: BIOL 225.

BIOL 231L  Anatomy and Physiology Laboratory  Credit 1 hour
Laboratory experience in human anatomy and physiology, for the biology major. 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 238  Plant Morphology  Credit 3 hours
The phylogenetic treatment of the vascular, lower vascular, and nonvascular plants, living and extinct. Must be taken concurrently with BIOL 238L. Prerequisite: BIOL 138/138L and BIOL 225.

BIOL 238L  Plant Morphology Laboratory  Credit 1 hour
Laboratory experience in the phylogenetic relationships of the plant kingdom. Must be taken concurrently with BIOL 238.

BIOL 239  Animal Classification  Credit 3 hours
The phylogenetic treatment of vertebrate and invertebrate animals, living and extinct. Must be taken concurrently with BIOL 239L. Prerequisite: BIOL 139/139L and BIOL 225.

BIOL 239L  Animal Classification Laboratory  Credit 1 hour
Laboratory experience in the phylogenetic relationships of animals. Must be taken concurrently with BIOL 239.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIOL 311</td>
<td>Biology Seminar I</td>
<td>1 hour</td>
<td>Selection of topics suitable for library research, conducting of literature searches, critical analysis of sources, and presentation of integrated thesis in a poster format. Resume development will be discussed. For second semester sophomores or juniors in Biology or Health Sciences majors.</td>
</tr>
<tr>
<td>BIOL 320</td>
<td>Supervised Study in Laboratory and Methods</td>
<td>1 hour</td>
<td>Students will prepare, supervise, and evaluate laboratory exercises under the direction of faculty members. Designed to give students practical experience teaching in the laboratory setting.</td>
</tr>
<tr>
<td>BIOL 323</td>
<td>Basic Hematology</td>
<td>1 hour</td>
<td>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 225, BIOL 231/231L, and CHEM 231/231L.</td>
</tr>
<tr>
<td>BIOL 323L</td>
<td>Basic Hematology Laboratory</td>
<td>1 hour</td>
<td>Laboratory experience in basic hematology and urinalysis. All students must have received two of the three hepatitis B vaccinations prior to beginning this course. Must be taken concurrently with BIOL 323.</td>
</tr>
<tr>
<td>BIOL 324</td>
<td>Wildlife and Livestock Disease Management</td>
<td>3 hours</td>
<td>Outlines parasitic, infectious, and environmental diseases influencing wild and domestic animal populations. Identifies the cause of disease, routes of transmission, and affects on the individual and population. Explores management alternatives to control disease and reduce impacts on wildlife populations. Prerequisite: AGRI/BIOL 235 or AGRI 132, or consent of the instructor. Cross-listed as AGRI 324.</td>
</tr>
<tr>
<td>BIOL 325</td>
<td>Rangeland Wildlife Management</td>
<td>3 hours</td>
<td>Issues and management of wildlife and their habitats on rangelands. Emphasis will be on wildlife habitat management and manipulation and the issues of co-habitation of wildlife and domestic livestock. Field trips may be required. Cross-listed as AGRI 325. Prerequisite: Sophomore status or permission of Instructor and Dean.</td>
</tr>
<tr>
<td>BIOL 331</td>
<td>Human Sexual Biology</td>
<td>3 hours</td>
<td>Biological aspects of human sexuality, including reproduction, alternate behaviors, and aging. Includes social and emotional aspects of sexuality. Designed to demystify our changing sexual culture.</td>
</tr>
<tr>
<td>BIOL 332</td>
<td>Genetics</td>
<td>3 hours</td>
<td>Transmission of traits from generation to generation, including Mendelian, molecular, and population genetics. Prerequisites: BIOL 225, CHEM 131/131L or 140/140L, or permission of instructor.</td>
</tr>
<tr>
<td>BIOL 336</td>
<td>General Ecology</td>
<td>2 hours</td>
<td>Factors that influence the distribution and abundance of organismal populations. Must be taken concurrently with BIOL 336L. Field trips required. Prerequisite: 6 hours of Biology excluding BIOL 136/136L.</td>
</tr>
<tr>
<td>BIOL 336L</td>
<td>General Ecology Laboratory</td>
<td>1 hour</td>
<td>Laboratory experience in describing and quantifying organismal populations. Must be taken concurrently with BIOL 336.</td>
</tr>
<tr>
<td>BIOL 337</td>
<td>Environmental Management</td>
<td>3 hours</td>
<td>Global ecosystem and humans’ impact on it, including biology in human affairs, air and water pollution, and population growth. Coverage includes the major environmental laws, such as NEPA, ESA, The Wilderness Act, etc. Special projects are required. Field trips required.</td>
</tr>
<tr>
<td>BIOL 340</td>
<td>Human Anatomy</td>
<td>3 hours</td>
<td>An advanced study of the microscopic and gross structure of the human body. This course will prepare the study for entry into BIOL 342. Donor bodies are used. Must be taken concurrently with BIOL 340L. Prerequisite: BIOL 225.</td>
</tr>
<tr>
<td>BIOL 340L</td>
<td>Human Anatomy Laboratory</td>
<td>1 hour</td>
<td>Laboratory experience in human anatomy, using donor bodies. Must be taken concurrently with BIOL 340.</td>
</tr>
</tbody>
</table>
BIOL 341  Microbiology  Credit 3 hours
Study of bacteria, molds, yeasts, algae, protozoa, viruses, and rickettsias. Must be taken concurrently with BIOL 341L. Prerequisite: BIOL 225.

BIOL 341L  Microbiology Laboratory  Credit 1 hours
Laboratory experience in techniques for microbe identification. 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 225 and BIOL 340/340L or consent of the instructor.

BIOL 342L  Human Physiology Laboratory  Credit 1 hour
Laboratory experience in physiology of human systems, using technology and donor bodies. 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: 139/139L and BIOL 225.

BIOL 343L  Parasitology Laboratory  Credit 1 hour
Laboratory experience in identifying and understanding parasites of living systems. Must be taken concurrently with BIOL 343.

BIOL 350  Field Biology  Credit 1-6 hours
Two 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
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 in anatomy, behavior, and identification of birds. Must be taken concurrently with BIOL 401.

BIOL 404  Anatomy and Physiology Mentor  Credit 2 hours
Students will assist BIOL 231L, Anatomy and Physiology Lab instructor in the preparation and delivery of laboratory instruction using anatomical specimens and physiological simulations and conduct additional optional “open-lab” study sessions. Concurrent enrollment in BIOL 422 required. Written permission of instructor is required.
BIOL 405  Human Anatomy Mentor  Credit 2 hours
Students will assist BIOL 340L, Human Anatomy Lab instructor in the preparation and delivery of laboratory instruction using anatomical specimens and conduct additional optional “open-lab” study sessions. Concurrent enrollment in BIOL 422 required. Written permission of instructor is required.

BIOL 406  Human Physiology Mentor  Credit 2 hours
Students will assist BIOL 342L, Human Physiology Lab instructor in the preparation and delivery of laboratory instruction using live physiologic experimentation and computer simulations and conduct additional occasional “open-lab” study sessions. Prerequisite: BIOL 422. Written permission of instructor is required.

BIOL 409  Senior Biology Research  Credit 1-2 hours
Original investigation in biology under a faculty member’s supervision and guidance. A public presentation of results will occur. May be repeated up to four times, for no more than 6 credits total. Written permission of instructor is required.

BIOL 410  Biology Seminar II  Credit 1 hour
Each student will select a topic with approval by the biology faculty. The student will complete original research or literature review on the topic and report by 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 Major. Prerequisite: BIOL 311.

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 co-requisite: BIOL 332.

BIOL 422  Advanced Human Anatomy  Credit 1 hours
The advanced study of human anatomy through human gross dissection, histological analysis and clinical anatomy of each system of the body. Prerequisites: BIOL 340/340L and BIOL 342/342L and written permission by the course instructor.

BIOL 423  Rural Health Issues  Credit 1 hour
Cooperatively taught with the University of Nebraska Medical Center. Explores health issues specific to rural medicine and a rural health care practice. Permission of instructor needed.

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. Lectures and class discussion of current literature, plus application of concepts in a literature review paper is required. Prerequisites: BIOL 332 and BIOL 336/336L or equivalent.

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 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: BIOL 341/341L.

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 239/239L.
BIOL 431L  Entomology Laboratory
Credit 1 hour
Laboratory and field experience in insect morphology and taxonomy. 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.

BIOL 432L  Developmental Biology Laboratory
Credit 1 hour
Laboratory experience in vertebrate embryology and morphological development. Must be taken concurrently with BIOL 432.

BIOL 433  Human Biomechanics
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 and PHYS 241/241L.

BIOL 433L  Human Biomechanics Laboratory
Credit 1 hour
Laboratory experience in human movement. Technology and donor bodies will be used. 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.

BIOL 435L  Mammalogy Laboratory
Credit 1 hour
Laboratory experience in mammal structure and function. Must be taken concurrently with BIOL 435.

BIOL 436A  Research Microscopy
Credit 1 hour
Microscopic principles and techniques focusing on the use of microscopes in scientific inquiry and diagnosis. Includes light and optic theory, specimen preparation, image collection and interpretation, and types of research microscopes. Recommend taking with BIOL 436B. Prerequisites: 12 hours of Biology/Geoscience credit, or approval of the instructor. Cross-listed as GEOS 426A.

BIOL 436B  Introduction to Scientific Research
Credit 2 hours
Scientific research methodology, including development of testable hypotheses, research design, data analysis introduction, grant proposal writing, and writing research papers. Recommend taking with BIOL 436A. Prerequisite: 12 hours of Biology/Geoscience Credit, or approval of the instructor. Cross-listed as GEOS 426B.

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 and 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 in plant phylogeny and identification. 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, and either CHEM 131/131L or 140/140L.
BIOL 439L  Plant Physiology Laboratory  
Laboratory experience in plant structure and function, with an emphasis on applied plant biochemistry. Must be taken concurrently with BIOL 439.

BIOL 440  Topics in Biology  
Designed to meet the needs of students desiring knowledge in areas 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  
Biological, chemical and physical studies of inland surface waters. Must be taken concurrently with BIOL 444L. Field trips required. Prerequisite: 12 hours of Biology excluding BIOL 136/136L.

BIOL 444L  Limnology Laboratory  
Laboratory and field experience in freshwater systems. Must be taken concurrently with BIOL 444.

BIOL 446  Regional Flora  
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  
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  
Laboratory experience in plant-human interactions. Must be taken concurrently with BIOL 448.

BIOL 449  Molecular Biology of the Cell  
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). Prerequisites: BIOL 332, 341/341L, and either CHEM 231/231L or CHEM 233/233L.

BIOL 450  Field Limnology  
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  
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 Laboratory  
Laboratory experience in isolation and clinical identification of pathogenic microbes. Must be taken concurrently with BIOL 456.

BIOL 458  Evolution  
Study of the fundamental theory of evolution, including phylogeny and earth history, macroevolutionary patterns, microevolutionary processes, and synthesis. Prerequisites: BIOL 332.

BUSINESS ADMINISTRATION

B A 160  Topics in Business  
Topics or seminars will be selected as needed to keep students abreast of contemporary issues in business.
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 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  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  Legal Aspects of Business Ownership  Credit 3 hours
   Business law covering negotiable commercial paper, debtor-creditor relations and risk management, agency and
employment, business organizations and real property and estates.

B A 460  Topics in Business  Credit 1-3 hours
   Topics or seminars will be selected as needed to keep students abreast of contemporary issues in business.

BUSINESS INFORMATION SYSTEMS

BIS 160  Topics in BIS  Credit 1-3 hours
   Topics or seminars will be selected as needed to keep students abreast of contemporary issues in BIS.

BIS 200  Introduction to Computer Applications  Credit 3 hours
   Development of proper techniques in word processing, organizing and maintaining data in a spreadsheet, creating
and managing a database, and producing professional presentations using current software applications. A practical
hands-on application of various information processing tools is utilized to develop organizational decision making
skills.

BIS 230  Web Page Development  Credit 3 hours
   Provides a foundation for establishing and maintaining a web site; specifically, creating, designing, and
publishing content on the Web. Current Web programming languages will be covered. Topics include web
development, debugging, version control, and introductory web site administration. In addition, dynamically
generated web sites and database-driven web sites are discussed.
BIS 231  Principles of Information Systems  Credit 3 hours
Information systems concepts and principles applied to business uses of technology. Conceptual areas include: fundamentals of information systems, data resource management, telecommunications and networks, ebusiness, ecommerce, decision support systems, information technology management, developing business and information technology solutions, security, and ethical challenges.

BIS 235  Business Programming  Credit 3 hours
Provides the concepts and skills necessary to design and develop web-based database applications; specifically building a working database application and a client application to serve the information needs of an enterprise. Prerequisites: BIS 230

BIS 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.

BIS 332  Decision Support for Managers  Credit 3 hours
This course is designed to educate managers in the process of becoming more effective and efficient problem solvers through integrating the use of spreadsheet modeling to support business decisions.

BIS 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.

BIS 430  Project Management  Credit 3 hours
Introduces the basic principles of modern project management, the project planning processes, and knowledge areas. Attention will be given to how projects contribute to the strategic goals of the organization and the process of selecting projects that best support the strategy of a particular organization.

BIS 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.

BIS 460  Topics in BIS  Credit 1-3 hours
Topics or seminars will be selected as needed to keep students abreast of contemporary issues in BIS.

CAREER AND TECHNICAL EDUCATION

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.
### COURSE DESCRIPTIONS

**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, adult learning theory, and the adult programming.

**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 Techniques/Work-Based Learning**  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.

**CTE 452  Program Development, Implementation and Assessment**  Credit 3 hours  
A course that studies the development, implementation, and assessment of programs within an organization. The course examines the leadership necessary to accomplish the goals and mission of the organization’s programs.

### CHEMISTRY

**CHEM 121  Introductory Chemistry**  Credit 3 hours  
Fundamental principles of chemistry and the application of chemical principles to health, environment, and society. Required of students who have not taken high school chemistry who plan to enroll in CHEM 131 or CHEM 140. Appropriate for General Studies Physical Science elective.

**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  
Laboratory experience in basic chemical concepts, including concentrations, reaction mechanisms, molecular structure and spectroscopy. 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 131/131L.

**CHEM 132L College Chemistry II Laboratory**  Credit 1 hours  
Laboratory experience in qualitative chemical analysis. Concurrent enrollment in CHEM 132 required.

**CHEM 140  Survey of 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 Survey of Chemistry Laboratory  Credit 1 hour
Laboratory experiences in basic chemical processes and mechanisms. Accompanies CHEM 140. Basic chemistry laboratory operations. Concurrent enrollment in CHEM 140 required.

CHEM 231 Survey of Organic Chemistry  Credit 3 hours
Survey of organic chemistry principles and applications for students requiring one semester of Organic Chemistry. The nomenclature, structure, physical and chemical properties and reactions of the principle families of organic compounds is covered. Carbohydrates, lipids, enzymes, amino acids and protein synthesis is also covered at an introductory level. Prerequisite: CHEM 132/132L or CHEM 140/140L. Concurrent enrollment in CHEM 231L required.

CHEM 231L Survey of Organic Chemistry Laboratory  Credit 1 hour
Principle laboratory operations of organic chemistry, organic synthesis, and spectroscopy. Concurrent enrollment in CHEM 231 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 333 Organic Chemistry I  Credit 3 hours
Nomenclature, reactions, multi-step synthesis, stereochemistry, mechanisms, and spectroscopy of organic compounds. Prerequisite: CHEM 132/132L. Concurrent enrollment in CHEM 333L required.

CHEM 333L Organic Chemistry I Laboratory  Credit 1 hour
Principle laboratory operations of organic chemistry, organic synthesis, and spectroscopy. Concurrent enrollment in CHEM 333 required.

CHEM 334 Organic Chemistry II  Credit 3 hours
A continuation of Organic Chemistry I. Concurrent enrollment in CHEM 334L required. Prerequisite: CHEM 333/333L.

CHEM 334L Organic Chemistry II Laboratory  Credit 1 hour

CHEM 335 Biochemistry I  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 335L recommended. Prerequisite: CHEM 231/231L or CHEM 233/233L.

CHEM 335L Biochemistry I Laboratory  Credit 1 hour
Laboratory experience in purification, quantitation, and characterization of biological molecules. Prerequisite: CHEM 335 or concurrent enrollment in CHEM 335.

CHEM 341 Quantitative Analysis  Credit 3 hours
Principles of modern analytical chemistry. Must be taken concurrently with CHEM 341L. Prerequisite: CHEM 132/132L.
CHEM 341L Quantitative Analysis Laboratory  
Laboratory experience in quantitative analysis. Must be taken concurrently with CHEM 341.

Credit 1 hour

CHEM 342 Instrumental Analysis  
Emphasis on instrumental and radioisotopic analysis. Must be taken concurrently with CHEM 342L.  
Prerequisite: CHEM 132/132L, or consent of instructor.

Credit 3 hours

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

Credit 1 hour

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

Credit 1-12 hours

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

Credit 1-3 hours

CHEM 401 Capstone II: Senior Research  
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.

Credit 1 hour

CHEM 410 Capstone III: Senior Research Thesis  
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.

Credit 1 hour

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

Credit 3 hours

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

Credit 1-3 hours

CHEM 430 Inorganic Chemistry  
Advanced principles of inorganic chemistry.

Credit 3 hours

CHEM 433 Environmental Chemistry  
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 recommended. Prerequisite: CHEM 132/132L or CHEM 140/140L.

Credit 3 hours

CHEM 433L Environmental Chemistry Laboratory  
Laboratory experience in environmental chemical analysis. Prerequisite: CHEM 433 or concurrent enrollment in CHEM 433.

Credit 1 hour

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

Credit 3 hours

CHEM 444L Physical Chemistry Laboratory  
Laboratory experience. Prerequisite: CHEM 444 or concurrent enrollment in CHEM 444.

Credit 1 hour
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 151 or instructor approval.

COLLEGE

COLG 100  Adult Community Recreation  Credit 1 hour
Basic recreational activity designed for the adult learner.  Emphasis will be placed on flexibility, strength, and cardiovascular maintenance.

COLG 121  The Academic Life  Credit 3 hours
The Academic Life is designed to assist students in acclimating to the expectations of college academics and culture.  The overall objective of the course is to provide a classroom environment that promotes student success in academics and life.  A broad variety of topics relating to student engagement and achievement are covered.

COLG 131  Portfolio Development  Credit 1 hour
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.

COLG 191  Information Literacy  Credit 1 hour
Students will be able to recognize an information need, access that information in multiple formats, evaluate/authenticate the information, discern the ethical implications of knowledge construction, and organize the information in a compelling and bibliographic manner.

COMMUNICATION ARTS

CA 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.

CA 130  Interpersonal Communication  Credit 3 hours
Study of the dynamics of interpersonal communication in one-to-one relationships through experiential exercises and selected readings.  Designed to improve students’ interpersonal communication skills and enhance knowledge about the importance of communication in interpersonal settings.

CA 133  Media Writing  Credit 3 hours
A study of various techniques of media writings intended to familiarize students on why and how media utilize those techniques. Writing techniques for Journalism, radio, television, and online, will be addressed.

CA 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.

CA 160  Topics in Communications  Credit 1-3 hours
Special Topics in Communications.  May be repeated with a change in emphasis.

CA 225  Communicating in Groups and Teams  Credit 3 hours
Theory and practice of group and teamwork which occur in a variety of 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 Digital 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, text-formatting, digital imagery, web and print design.

C A 233  Presentational Speaking  Credit 3 hours
Practice in delivering persuasive, informative, impromptu, special occasion, and seminar-style speeches. Students will be expected to write speeches and utilize technology in their delivery.

C A 234  Photojournalism  Credit 3 hours
Techniques and practical application of basic digital photography skills. Lecture and laboratory time include planning and shooting story-telling photographs, cropping, enlarging, and printing photographs, writing cutlines for newspapers 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  Introduction to Public Relations: Principles, Processes and Practices  Credit 3 hours
An overview of the history, theory, ethics and practices in the American public relations profession. It provides a critical thinking framework for understanding organizational practice with diverse settings, media relations, image and identity management, target audiences and public opinion.

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 political, mediated, and interpersonal communication. Students will be expected to analyze and critique persuasive messages from varied sources.

C A 335  Media Advertising  Credit 3 hours
An overview of the fundamentals of copywriting for advertising in mass communication covering print and electronic media. The practice of advertising audience direction, appeals, strategy and structure will be included.

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.

Theory and practice of producing public relations and publicity tools for the traditional and digital media. It emphasizes problem solving and critical thinking for professional practice in the development and use of campaigns for personal, institutional, and organizational objectives and activities. It includes writing, design and production techniques.
C A 351  **Organizational Communication**  Credit 3 hours
The nature and flow of communication in modern organizations (such as businesses, political structures, hospitals, etc.) through applied theory, diagnosis, and problem solving skills. Examination of communication between management, employees, and the community. Students will be expected to analyze communication environments and present communication findings to the class.

C A 353  **Health Communication**  Credit 3 hours
Communication theory, research, and applications in health care, health promotion, and wellness industries. Variables influencing communication between and within health care providers and consumers are examined.

C A 390  **Internship in Communication**  Credit 1 - 12 hours
Provides practical experience in a field related to Communication Arts. Interested students should contact the Internship and Career Services office to secure application materials. Dean of the School of Arts and Sciences, Department Chairperson, and the student’s major advisor must approve program prior to semester of internship. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

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

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

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

C A 430  **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  **Media Projects**  Credit 1-3 hours
a. Production work on the student newspaper, THE EAGLE. 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.
b. Production work on radio at Chadron State College.

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  **Advanced 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  
Explores gender as a communication variable in settings ranging from interpersonal relationships, organizational settings, to public or mass communication.

C A 442  Globalization, Culture and Media  
Explores how globalization of culture and communication was shaped and reshaped as results of economic, technological, political and cultural concerns of various global players. Although all the major theoretical approaches of globalization of communication will be explored, focus on global communication as an emerging, hybrid and contested global field and global media will be emphasized.

C A 443  Media Law  
An overview of legal issues related to Journalism and other media outlets. Special emphasis on broadcast and print media, current interpretations of law, copyright and first amendment issues.

C A 450  Public Relations: Current Trends, Topics and Case Studies - Advanced Studies in PR  
The course focus is on the management of public relations programs and covers the development and implementation of PR strategies, tactical planning and evaluation for integrated marketing communication. It uses a case studies approach for understanding how and why PR strategies succeed or fail. Students apply research and problem-solving techniques to real life public relations case problems including crisis management and event planning. Portfolio and presentation skills are used in addition to authentic learning with companies, government, community and non-profit organizations.

CRIMINAL JUSTICE

CJ 231  Introduction to Criminal Justice  
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  Introduction to Law Enforcement  
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  
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 Casework and Practice  
Overview of correctional theory, assessment, and practice. Special emphasis on strategies for classifying criminal offenders with respect to risks and needs and treatment methods currently used with offenders.

CJ 235  Fundamentals of Criminal Investigation  
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 responders to a crime scene, chain of custody for crime scene evidence, and interaction with victims, witnesses, and potential perpetrators. Prerequisite: CJ 231.

CJ 236  Introduction to Corrections  
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  Juvenile Crime and Gangs  Credit 3 hours
An examination of juvenile delinquency in the context of subcultures. Explores gang history and variations of gang practices by race, class and gender. Examines crime trends, patterns of delinquent behavior, and factors of causation of delinquent behavior as related to subcultures. Policies and intervention strategies relevant to this type of crime are considered.

CJ 323  Forensic Studies I  Credit 3 hours
An overview of scientific crime detection and the major forensic disciplines. 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 or LS 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
A broad overview of the current research that explores the impact of race, ethnicity, socioeconomic status, gender, geography and age as they relate to patterns of criminal behavior and victimization, police practices, court processing and sentencing. Prerequisite: CJ 231.

CJ 337  Introduction to Law  Credit 3 hours
Examines 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 will be examined. 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**
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**
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**
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**
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**
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**
A course focusing on the legal status of children. Studies the 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**
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**
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**
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**
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**
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 Corrections  Credit 3 hours
Identifies and explores the components of the juvenile correctional system and their philosophy, functions, and goals. The history and development of methods for responding to juvenile offenders will be covered, including intervention and treatment methods as well as 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 Criminal Justice  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 Studies II  Credit 3 hours
Theories, techniques, and applications of 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 446  Cross Cultural Studies/Justice Studies  Credit 3
The course examines the various elements of human culture as reflected in selected countries that follow the common law tradition, the civil law tradition and the Islamic law tradition. Attention is given to the impact of cultural factors (historical, religious, social, and political) on the formal institutions, substantive law and procedures for social control of crime.

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. Prerequisites: Permission of Instructor and admission by a law enforcement training center.

CJ 450  Topics in Forensic Studies  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.
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 regional, domestic and global markets for goods and services and resources. Course involves variations (absolute and comparative) among regions, states and nations relative to resource-based economic systems, markets for goods and services, and measures of economics welfare.

ECON 160  Topics in Economics  Credit 1-3 hours
Topics or seminars will be selected as needed to keep students abreast of contemporary issues in economics.

ECON 231  Macroeconomics  Credit 3 hours
Economy in the aggregate including gross domestic product and its components, employment, inflation, business fluctuations, economic growth, global trade, 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, in the context of domestic and global consumers, producers and governments. Analysis of supply and demand, pricing functions, and income distribution with application to United States economy.

ECON 434  National Agricultural Policy  Credit 3 hours
The basics of agricultural production and marketing components 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; or consent of the instructor.

ECON 460  Topics in Economics  Credit 1-3 hours
Topics or seminars will be selected as needed to keep students abreast of contemporary issues in economics.

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 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
Classroom 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 434, and PSYC 231.

EDUC 320  Elementary/Middle School Observation and Participation  Credit 1-3 hours
Classroom observation and participation prior to student teaching at various grade levels or in the subject areas students might teach at the middle grades level. Students will observe and participate in two or three different classroom 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, PSYC 231 or 334, 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 and PSYC 231 or 334.

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 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 and PSYC 231.

EDUC 360  Cross Cultural Studies in Education  Credit 3-6 hours
This course is designed to provide individuals interested in educational systems in other societies the opportunity to study and observe these systems through training experiences in the form of workshops, fellowships, and/or seminars. The course requires travel expenses as associated with the specific activity. Course may be repeated with different focus.

EDUC 361  Integrated Elementary/Middle School Core Methods  Credit 6 hours
Survey of effective Instructional Methods in Core Education Subjects (i.e., Math, Lang. Arts, Soc. Studies) at the Elementary/Middle Grades levels. Academic areas, as well as current events, geographical skills, grouping and creative activities will be addressed, and will include techniques and strategies for working with exceptional needs students.

EDUC 390  Applied 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 402  Library Education Resources  Credit 1 hour
Specific content will focus on print and electronic information sources that will assist students who are preparing to be teachers or who will be working with children in a professional setting. Emphasis will be placed on using a practical, hands-on approach to locate and evaluate education materials including multicultural and cross-curricular resources.
EDUC 405  Alternative Certification Professional Studies Sequence  Credit 5 hours
(Note: Baccalaureate Degree required for enrollment in this course). This integrated course prepares student for the clinical internship and includes the following topics: a) reading in the content area; b) assessment; c) instructional methods and strategies; d) classroom management; and e) special education practices and strategies.

EDUC 411S Reading/Writing in the Content Areas  Credit 1 hour
Assists teacher candidates to approach subject matter in such a way as to utilize and further develop instructional strategies. Study skills, reading/writing skills common to all content areas and reading/writing skills and vocabulary development in specific subject areas are covered. Taken as part of the professional year, Semester #1.

EDUC 412S Curriculum and Standards, Secondary/MS  Credit 1 hour
The course topics include: curriculum development (scope and sequencing of instruction; implementation of standards into the curriculum; relationship between scope/sequence-unit-lesson planning and assessment; strategies for connecting units of instruction throughout the curriculum; co-curricular and extracurricular planning. Taken as part of the professional year, Semester #1.

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, Semester #1.

EDUC 414S Secondary/Middle School 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, Semester #1.

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, Semester #1.

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, Semester #1.

EDUC 417  Teaching Reading and Writing Diagnosis  Credit 1 hour
Diagnostic awareness and corrective skill development. Formal and informal tools used in assessing reading/writing progress, identifying reading/writing 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, Semester #1.

EDUC 418S Secondary/Middle School 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, Semester #1.

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, Semester #1.
EDUC 423  Teaching Primary Reading and Writing  Credit 2 hours
Current methods, materials and research findings related to the teaching of reading and writing at the primary level. Different approaches to word analysis and to reading and writing comprehension, laboratory projects and demonstrations in instructional techniques, and reading and writing principles and strategies of primary reading and writing programs, and instructional and organizational procedures. Taken as part of the Professional Year, Semester #1.

EDUC 424  Teaching Intermediate Reading and Writing  Credit 2 hours
Current methods, materials, and research findings related to the teaching of reading and writing at the intermediate level. Teaching advanced reading and writing skills in reading and writing 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 and writing principles, program development, and instructional and organizational procedures. Taken as part of the Professional Year, Semester #1.

EDUC 431  Specialization Instruction  Credit 1 hours
The laboratory and lecture course includes instruction, managerial, and curricular pedagogy unique to the endorsement subject area. Prerequisites: PPST, EDUC 131, EDUC 434, EDUC 300, PSYC 231, and SPED 230, 334.

EDUC 433  The Middle School  Credit 3 hours
Philosophy, implementation, and improvement of the middle school (grade 4-9) from a theoretical and practical basis. Emphasis is placed upon the development, behavior, and special issues of middle school students; overall school program; methods of instruction; and the evaluation process.

EDUC 434  Technology In Instructional Design  Credit 3 hours
This course focuses on the integration of computers and other new technologies into the academic curriculum. Teachers at all levels of the education system are under pressure to meet the dual demands of integrating new technologies and 21st Century skills into teaching, while helping their students achieve to high standards.

EDUC 435 A – C: Learning Methods  Credit 1-2
The laboratory and lecture course topics include: methods of instruction; unit and lesson planning and assessment skills; identification and management of student learning; advanced cognitive skill development strategies; special education strategies and accommodations, and learning motivational strategies. The “A” course is for social science/history, math, and library media. The “B” course is for business, art, family and consumer sciences, and science. The “C” course is for music, physical education, health, theatre, language arts/English. Taken as part of the professional year, Semester #1.

EDUC 440  Topics in Education  Credit 1-6 hours
Designed to allow students to study some aspect of Education not offered in the regular class. May be repeated with a change in emphasis for a maximum of 6 credit hours.

EDUC 475  Regional Elementary/Middle School Professional Studies Sequence  Credit 12 hours
This integrated course prepares students for the clinical internship and includes the following topics: a) classroom management; b) curriculum and counseling; c) human relations/multicultural education; d) assessment; e) reading and writing diagnosis; f) science and health; g) primary and intermediate reading and writing; and h) special education practices and strategies.

EDUC 480A  Field Experience  Credit 1-8 hours
Assists the non-certified teacher and/or the teacher seeking an additional endorsement program or renewal of an expired certificate to obtain a planned and supervised classroom 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, and affirmation under oath that the student is in sound mental capacity.

EDUC 480I  Teacher Internship Intermediate  Credit 8 hours
Encompasses grades 4 through 6 and taken in conjunction with eight additional student teaching hours.
EDUC 480K Teacher Internship K-12 Credit 8-16 hours
Encompasses K-12 endorsements in art, music, physical education, and Mild/Moderate Disabilities 9SPED. May be taken in conjunction with eight additional teacher internship hours.

EDUC 480L Teacher Internship K-8 Credit 8 hours
Encompasses field experience for K-8 endorsement programs. Taken in conjunction with eight additional teacher internship hours.

EDUC 480M Teacher Internship Middle School Credit 8-16 hours
Encompasses grades 4 through 9 and may be taken in conjunction with eight additional student teaching hours.

EDUC 480P Teacher Internship Primary Credit 8 hours
Encompasses grades K through 3 and taken in conjunction with eight additional teacher internship hours.

EDUC 480R Teacher Internship Early Childhood Education Unified Credit 8 hours
Encompasses teacher internship in a field experience with young children birth to age 8 and is taken in conjunction with eight additional teacher internship hours at the elementary level.

EDUC 480V Teacher Internship Mild/Moderate Disabilities K-12 Credit 8-16 hours
Encompasses grades K-12 and may be taken in conjunction with eight additional teacher internship hours.

EDUC 490S Secondary Teacher Internship 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.

ENGLISH

ENG 111 Introduction to College Writing Credit 3 hours
This course is designed to help students utilize a variety of strategies for composing written discourse in Standard Edited English in an academic setting.

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. Prerequisites: A minimal score of 19 on the ACT English test or a C in ENG 111 and a minimal score of 19 on the ACT Reading Test or a C in READ 125. Students may also satisfy these prerequisites with a passing score on an equivalent writing or reading test approved by the 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 160 Literary Explorations Credit 1-3 hours
Special Topics in English. May be repeated with a change in emphasis.

ENG 232 History of American Literature Credit 3 hours
(a) A study of American literature from its beginning to 1865.
(b) A study of American literature from 1865 to the present.

ENG 233 Elements of Literature Credit 3 hours
A study of the elements of poetry, drama, and fiction. Prerequisite: A minimal score of 19 on the ACT Reading Test or a C in READ 125. Students may also satisfy these prerequisites with a passing score on an equivalent reading test approved by the College.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>ENG 235</td>
<td>Children’s Literature</td>
<td>3 hours</td>
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<td>A study of literature written for children and adolescents that provides a critical background for interpreting, evaluating and teaching the literature.</td>
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<tr>
<td>ENG 236</td>
<td>History of English Literature</td>
<td>3 hours</td>
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<td>(a) A study of English language and literature from its beginnings to 1795.</td>
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<td></td>
<td>(b) A study of English literature from 1795 to the present.</td>
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<tr>
<td>ENG 249</td>
<td>Creative Writing</td>
<td>3 hours</td>
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<td>Writing instruction designed to improve the students’ expression in (a) Nonfiction prose, (b) Fiction, or (c) Poetry.</td>
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<tr>
<td>ENG 300</td>
<td>The Graphic Novel: Studies in Diversity and Difference</td>
<td>3 hours</td>
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<td></td>
<td>An examination of contemporary issues in global diversity through the lens of the graphic novel, a literary genre that creates meaning through the sequencing and juxtaposition of visual images and words. The goal is to understand the graphic novel as a cultural product and a cultural practice, paying careful attention to the ways that graphic storytellers manipulate historical and contemporary economic, political, and social issues in their art.</td>
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<tr>
<td>ENG 331</td>
<td>Theory and Practice of Teaching Writing</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>An examination of various methods and programs in teaching writing, including practical experience in responding to writing.</td>
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<tr>
<td>ENG 320</td>
<td>Grammar and Linguistics</td>
<td>3 hours</td>
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<td></td>
<td>An introduction to the study of grammar and linguistics, with a focus on sociolinguistics and differing approaches to grammar as each applies to teaching.</td>
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<tr>
<td>ENG 337</td>
<td>Technical Writing II</td>
<td>3 hours</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ENG 340</td>
<td>Contemporary Literature</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>A study of various issues, authors and topics in contemporary English and/or American literature.</td>
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<tr>
<td>ENG 341</td>
<td>Literature of the Great Plains</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>An exploration of writers and works of literature related to the American Great Plains.</td>
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<tr>
<td>ENG 342</td>
<td>Literature Across Borders</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>An exploration of writers and works that confront and cross borders – geographical, cultural and ethnic – throughout American history.</td>
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<tr>
<td>ENG 343</td>
<td>Literature and Philosophy</td>
<td>3 hours</td>
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<td></td>
<td>An examination of literary works at the intersection of philosophy and literature that raise such philosophical issues as the nature of reality, truth, knowledge, identity or vividly illustrates the meaning of abstract thought about those issues.</td>
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<tr>
<td>ENG 344</td>
<td>Literature of the Environment</td>
<td>3 hours</td>
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<td></td>
<td>An examination of works in the American literary tradition that treat the relationship between people and their natural environments.</td>
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<tr>
<td>ENG 345</td>
<td>Gender and Literature</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>A study of masculinity and femininity in literature and literary criticism.</td>
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<tr>
<td>ENG 346</td>
<td>Literature of the Bible</td>
<td>3 hours</td>
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<td>The purpose of this course is to introduce students to the literature of the Protestant and Catholic Bibles. Students will use diverse reading practices employed in both biblical and literary scholarship in order to read these texts in their literary, historical, and cultural contexts (ancient Near East, Greece, and Rome).</td>
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</table>
ENG 400 Independent Study or Research  Credit 1-3 hours
Study or research in an area of special interest. Students of senior standing, under the guidance of a professor in their major, may complete a Thesis & Capstone Project in their area of study and present it publicly. 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 440 Theory and Practice of Literary Criticism  Credit 3 hours
A study of selected theories that provide the foundations for literary criticism and the application of those theories to specific texts.

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

ENG 461 Specialized Methods in Language Arts  Credit 3 hours
The laboratory and lecture course includes instruction, managerial, and curricular pedagogy unique to the endorsement subject area. Prerequisites: PPST, EDUC 131, EDUC 434, EDUC 300, PSYC 231, and SPED 230, 334.

FAMILY AND CONSUMER SCIENCES

FCS 122 Perspectives in Family and Consumer Sciences  Credit 2 hours
History, philosophy, and professional perspectives of the field as well as career exploration and academic planning. Lecture and discussion.

FCS 135 Alteration and Construction Techniques  Credit 3 hours
Adaptation of commercial patterns as well as custom-fitting techniques for ready-made items. The processes of sewing technologies, including selection and use of equipment, patterns, fabrics, notions, and fundamental techniques are utilized. Construction techniques will be applied to apparel and home interior fashions. Student learning objectives will build upon prior knowledge and skills.

FCS 139 Human and Development  Credit 3 hours
Human development from conception through adulthood is analyzed from physiological, cognitive, and socio-emotional perspectives. Emphasis is on wellness. A combination of lecture, practical application and observation of the stages of development.

FCS 151 Foundations of Nutrition and Metabolism  Credit 3 hours
The fundamental aspects of nutrients and their metabolism will be presented. This course is designed for students with an interest in human or animal nutrition. Cross-listed as AGRI 151.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>FCS 160</td>
<td><strong>Special Topics</strong></td>
<td>1-3 hours</td>
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<td></td>
<td>Special topics appropriate for lower division credit. May be</td>
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<td></td>
<td>repeated with different emphases for up to six hours of</td>
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<td>credit.</td>
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<td>FCS 224</td>
<td><strong>Housing and Interior Design</strong></td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Architectural and interior design elements and principles as</td>
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<td>related to residential and commercial applications</td>
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<td>including furnishing and finishing materials and treatments.</td>
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<tr>
<td>FCS 234</td>
<td><strong>Introduction to Health and Human Services</strong></td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Exploration of careers within various health and human</td>
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<td>services areas. Provides awareness, information, and</td>
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<td></td>
<td>competencies necessary to facilitate entry into the health</td>
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<td></td>
<td>and human services. Topics of study include organizational</td>
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<tr>
<td></td>
<td>management, planning services to clients, needs analysis,</td>
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<td></td>
<td>and principles of health and human services.</td>
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<tr>
<td>FCS 236</td>
<td><strong>Food and Meals Across the Lifespan</strong></td>
<td>3 hours</td>
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<td></td>
<td>The primary focus of this course is to combine the science of</td>
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<td>nutrition and the art of cooking to create healthy foods</td>
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<td>and meals that satisfy hunger, the palate and the eye.</td>
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<td></td>
<td>Chemical composition of food, preparation, principles and</td>
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<td>techniques for the retention of nutrition, appearance, and</td>
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<td></td>
<td>flavor will also be covered. In our lab sessions, we will</td>
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<td></td>
<td>apply principles of safety, nutrition, and wellness to</td>
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<td></td>
<td>enhance individual and family health. Lecture and lab.</td>
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<td>FCS 237</td>
<td><strong>Guidance Techniques in Human Relations</strong></td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Principles and techniques for understanding effective</td>
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<td></td>
<td>conflict resolution and guidance. Will focus on identifying</td>
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<td>common behaviors, teaching social-emotional skills,</td>
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<td>distinguishing positive guidance approaches, and developing</td>
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<td>abilities to support self-control and self-discipline in</td>
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<td>building human relations. Includes field experiences where</td>
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<td>students will demonstrate skills in observation,</td>
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<td>documentation, assessment and evaluation for appropriate</td>
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<td>guidance practices.</td>
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<td>FCS 238</td>
<td><strong>Prenatal and Infant Development</strong></td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Social, emotional, intellectual/cognitive, and physical</td>
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<td>development of the child between the ages of 0 and 3,</td>
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<td>including pregnancy. Theoretical concepts, developmental</td>
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<td>stages, and develop skill competencies necessary to</td>
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<td>enhance the growth and development of the infant.</td>
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<td></td>
<td>Integration of knowledge base skills and competencies</td>
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<td>through observation and practical laboratory experiences.</td>
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<td>FCS 239</td>
<td><strong>Partners in Early Childhood Education</strong></td>
<td>3 hours</td>
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<td></td>
<td>Focuses on principles, methods and practical techniques for</td>
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<td>creating optimal working relationships which empower and</td>
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<td></td>
<td>strengthen partnerships among individuals, families, and</td>
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<td>communities. Students will gain an understanding of the</td>
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<td>process involved with establishing natural, inclusive</td>
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<td>environments and community building through service-learning</td>
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<td>and family stories.</td>
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<td>FCS 247</td>
<td><strong>Nutrition</strong></td>
<td>3 hours</td>
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<tr>
<td></td>
<td>Study of the nutrients and their relationship to health and</td>
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<td>wellness. Major topics include the functions and sources of</td>
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<td></td>
<td>each of the nutrients; diseases and conditions associated</td>
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<td>with deficiencies and toxicities of nutrients, including</td>
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<td>obesity and eating disorders; nutrient needs of special</td>
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<td>populations, such as athletes, children, and pregnant</td>
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<td>women; and wellness lifestyles.</td>
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<tr>
<td>FCS 270</td>
<td><strong>Special Topics</strong></td>
<td>1-3 hours</td>
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<td></td>
<td>Special topics appropriate for lower division credit. May be</td>
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<td>repeated with different emphases for up to six hours of</td>
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<td>credit.</td>
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<td>FCS 314abcd</td>
<td><strong>Future Focus</strong></td>
<td>1 hour</td>
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<td></td>
<td>Discussion of current trends or topics and their impact on</td>
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<td>individuals and families. Emphasis will be on the</td>
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<td></td>
<td>process of asking questions and seeking answers from a wide</td>
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<td>range of perspectives, especially focusing on the future.</td>
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<td>May be repeated for up to a total of four hours credit.</td>
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<td>First year students will enroll in 314a, second years</td>
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<td>students 314b, juniors 314c, and seniors 314d. Upper-class</td>
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<td>students will be expected and encouraged to assume leadership</td>
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<td>roles in class discussions.</td>
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</tbody>
</table>
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 individuals involved with an aging and dying person.

FCS 321  
Curriculum Development for Early Childhood  
Credit 2 hours  
Examines curriculum models and developmental needs of children birth to age 8, in natural, inclusive environments. Students apply skills in planning, organizing and developing activities, lesson plans and unit plans through knowledge base content and laboratory experiences.

FCS 331  
Resource 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 lifespan. Resources to be addressed include time, energy, money, and human capital, as well as clothing and housing. Wellness and quality of life issues will be considered.

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 340  
Current Trends in Design  
Credit 1-3 hours  
Design and construction trends will be explored. This course may be repeated for up to 6 credit hours.

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 417  
Lifespan Wellness  
Credit 3 hours  
Students will use wellness models and developmental models as a basis for learning skills and strategies which promote a lifetime of wellness. Emphasis is on empowering students to work with individuals across the lifespan (birth through old age) in promoting optimal wellness choices.

FCS 421  
Organization, Administration and Curriculum of FCS  
Credit 2 hours  
Departmental management and funding, community activities and relations, youth organizations, and facility/equipment maintenance curriculum materials will be developed.

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.

FCS 423  
Program Development and Management  
Credit 3 hours  
A study of the process involved with developing and managing program operations including development of policies and procedures, funding, grant writing, organization of personnel, menu planning, assessment, marketing, technology, community relations, and family partnerships. Integrates basic principles, strategies, knowledge, and skills necessary for developing, managing and administering successful programs/organizations from pre-planning to final operation.
FCS 427  Worksite Wellness  Credit 3 hours
This course covers the assessment, development/design, implementation and evaluation of worksite health promotion programs and the benefits these programs have for employees, their families, employers and society. Students will review various health risk appraisals and plan theory-based incentive programs designed to promote positive lifestyles.

FCS 434  Issues in Health and Human Services  Credit 3 hours
Provides an opportunity to concentrate on current issues in the health and human services field including policies, programs, funding, consumer rights, and administrative issues. Significant emphasis is placed on effective grantsmanship, including writing and administering grant proposals.

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 are analyzed to maximize financial wellness across the lifespan.

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 447  Nutrition for Sport & Wellness  Credit 3 hours
A study of the nutrients and their relationship to sport and wellness. Special nutritional and training needs of athletes and all individuals who are physically active will be addressed. Major topics include the function and sources of each of the nutrients; fueling for pre exercise, during exercise and after exercise; specific meal planning, nutrient needs for specific athletes and wellness lifestyles; and more.

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, 239, 321a, and 423 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. Additional fees will be assessed.

FCS 457  Nutrition for Community Wellness  Credit 3 hours
An evidence-based study of the science of nutrition and its relationship to improving public health. Focus will be on the campus-community based approach to improving health. Special emphasis will be on the relationship between nutritional epidemiology and research, policies, and programs regarding prevention and treatment as well as lifestyle and hereditary diseases.

FCS 467  Epidemiology & Global Health  Credit 3 hours
This course will provide a comprehensive understanding of sources of population data in terms of morbidity, mortality, and other vital statistics. Scientific methods for approaching population data and identifying public health problems and empirical analysis of data will be emphasized. Critical evaluation of medical and public health literature is included.
# FINANCE

**FIN 160  Topics in Finance**  
Credit 1-3 hours  
Topics or seminars will be selected as needed to keep students abreast of contemporary issues in finance.

**FIN 239  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. Prerequisite: Department’s Mathematics Requirement or equivalency.

**FIN 330  Principles of Finance**  
Credit 3 hours  
An introductory course emphasizing the basic financial principles and practices essential to managing a business. Among the topics introduced are the time value of money, working capital management, financial analysis, financial planning, cash-flow analysis, operating and financial leverage, capital budgeting, long-term financing, cost of capital, and capital structure. Prerequisites: Department’s Mathematics Requirement, ACTG 241 and ECON 232 or equivalencies.

**FIN 331  Financial Markets and Institutions**  
Credit 3 hours  
Inquiry into, and analysis of, the various financial markets and institutions (including debt, derivatives, equity, insurance, government-based and foreign financial markets) operating in the U.S. and the international economy. Emphasis is placed on providing the analytical tools needed to assess financial institution and market response to microeconomic and macroeconomic factors. Prerequisites: Department’s Mathematics Requirement and FIN 330 or equivalencies.

**FIN 333  International Finance and Economics**  
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, and the economic and political reasons and impacts of globalization.

**FIN 335  Agricultural Finance**  
Credit 3 hours  
Economic and financial theories and concepts related directly to the capital markets and associated production and marketing costs and revenues within the agricultural sectors including financial institutions. Deals with study and analysis of farms with a focus on financial statements, financing enterprises, and sources of agricultural credit including private and governmental financial institutions. Prerequisites: Department’s Mathematics Requirement; ACTG 241 and ECON 232, or equivalencies.

**FIN 338  Real Estate Investments and Insurance**  
Credit 3 hours  
This course combines the basic principles of real estate and insurance. Topics include: how to read an insurance and real estate contract, purchasing and financing a home or business and securing property, liability, automobile, life and health insurance. In addition various career paths are discussed.

**FIN 432  Financial Management**  
Credit 3 hours  
Examines various structures and operations of financial management of the firm including the sources and methods of financing, capital structure, dividend policy, leasing, mergers and acquisitions, working capital management, effects of taxation on financial decisions and international aspects of finance. Prerequisites: BA 336 and FIN 330 or equivalencies.

**FIN 439  Investment Analysis**  
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. Prerequisites: Department’s Mathematics Requirement and FIN 330 or equivalencies.

**FIN 460  Topics in Finance**  
Credit 1-3 hours  
Topics or seminars will be selected as needed to keep students abreast of contemporary issues in finance.
FIRST YEAR INQUIRY

FYI 169A Health Care I: A Choice or a Right Credit 3 hours

Students will study health care from multiple perspectives, including those of the patient, the practitioner and the policy-maker. This first course in the two-course sequence will focus on health care delivery systems. Students will consider issues of access, affordability and quality in the delivery of health care. They will also consider the ethical dimensions of health care choices. To explore these issues in depth, and to develop critical thinking, information literacy and inquiry skills, students will engage in an in depth and collaborative investigation of particular health care issues.

Note that this course is part of a two course sequence (FYI 169A/FYI 169R) designed to meet the 6-unit FYI requirement for Essential Studies. Co-enrollment in FYI 169A and COLG 191 required (check current course schedule for linked section of COLG 191).

FYI 169B Enemy Mine: The Extreme Other Credit 6 hours

We will explore the construction of “enemy” in different levels of human consciousness and existence. We intend to generate critical thinking and problem solving skills among students as they explore the concept of “enemy” as represented in selective fields of philosophy, religion, political science, literature, art, and media.

FYI 169C The Nation and the Globe Credit 6 hours

This course investigates the historic development of the nation and analyzes its role in the international realm. This course evaluates the interconnectedness of the world and specifically contextualizes the role of the nation under modern globalization. The course takes an interdisciplinary approach to understanding both the historical antecedents and the current problems of the relationship between the nation and the globe.

FYI 169D Wizards & Vampires in Film, TV, & Literature Credit 6 hours

The purpose of this course is to examine our culture’s fascination with wizards and vampires in Film, TV, and Literature, using methods and practices of inquiry from Literary, Gender, Film, and Race Studies.

FYI 169E Environmental Policy: Beyond the Sound Bites Credit 6 hours

For some years there has been a public debate about concerns for the environment. Terms like “Global Warming,” and more recently, “Climate Change,” reflect that debate. However, too often the science associated with environmental concerns is lost amidst the rhetoric of public political discourse, and, subsequently, environmental policy has been shaped more by political rhetoric than by science. The purpose of this course is to investigate both the rhetoric of public debate about environmental policy and the science of environmental concerns.

FYI 169F A Pox on You: The Biological, Legal, and Social Consequences of Infectious Diseases Credit 6 hours

In this course you will explore the dynamics of an infectious disease outbreak, the various societal responses, and the resulting tension between individual rights and public health, safety and welfare. Topics include: cause of epidemics, government preparedness, public health laws, use of quarantines and vaccinations, medical privacy, control of antibiotic resistant organisms, and dangers posed by bioterrorism/bioweapons.

FYI 169G Do You See What I See: The Art of Science and the Science of Art Credit 6 hours

An exploration of the science of art and the artistry involved in scientific exploration. Topics include: the biology of sight, color theory, the history of scientific illustration and modeling, the use of natural products and scientific technology to develop artistic representations, and the creation of videos and animations to artistically illustrate scientific processes. Students will be expected to develop a scientific project and to document and explain the results. Students will also create artistic projects using a variety of techniques including drawing, sculpture, painting, collage, and microscopic and non-microscopic photography.

FYI 169H Mathletics: Not for Spectators Credit 6 hours

In this course, we will discuss various sports and the relationships of the sports to exercise science and mathematics. We will explore how the body works when hitting a baseball, hitting a golf ball, playing billiards, shooting a basketball, and playing tennis. From this, we will integrate mathematics through the use of statistics, geometry, and trigonometry. Students will be asked to participate in various aspects of each of the above named activities.
FYI 169I  We are What We Eat  
Credit 3 hours  
This course is an investigation of the multiple inputs that make up the contemporary food system. This is not primarily a study of the nutritional aspects of food, but examines the production and consumption of food more broadly. Students working as permanent teams will develop questions and investigate issues important to them.

FYI 169J  The Hidden Life of Everyday Things  
Credit 3 hours  
This course is an investigation of the infrastructural aspects of everyday life that exist largely unnoticed. Students working as permanent teams will develop questions and investigate issues important to them within the course.

FYI 169K  A Better You Through Financial and Physical Health  
Credit 6 hours  
This course aims to give students the needed foundation for both a physical and financially healthy life by addressing the components of each and how they are interrelated.

FYI 169M  Improving Your Influence  
Credit 6 hours  
Students will describe and practice skills involved in critical inquiry and creative problem solving through interdisciplinary, collaborative engagement of information and knowledge as power in the business and educational setting.

FYI 169N  What Virtues Define the Warrior Spirit?  
Credit 6 hours  
In this course, we will inquire about the nature of “warrior spirit,” with an emphasis on the virtues of courage, loyalty, and duty traditionally associated with military service. We will also explore viewpoints that question the value of a “warrior spirit”

FYI 169O  10,000 B.C., Great Plains, North America: Human Survival and the Environment  
Credit 6 hours  
In this course you will examine the challenges of answering questions about prehistoric people’s adaptation to a changing environment through the application of historical and earth science tools and techniques. Ultimately, you will explore the dynamics of communicating scientific information in the form of natural and cultural history with the public.

FYI 169P  Making Cents of Petroleum  
Credit 6 hours  
In this course you will examine the challenge of meeting the demand for petroleum resources both nationally and globally. You will explore the dynamic balance between supplying a petroleum product and protecting the environment while utilizing ethical business practices. Ultimately you will explore how we can provide sustainable energy resources.

FYI 169Q  Private Parts: The Psychological, Socio-cultural & Biological Aspects of Human Sexuality  
Credit 6 hours  
Various aspects of human sexuality will be examined from a biological, socio-cultural, and psychological viewpoint. Students will engage in critical and analytical thinking regarding sexual culture and its implications. The course will be delivered in a blended format with participation in online forums, online blogs, and on-campus class time.

FYI 169R  Health Care II: A Choice or a Right  
Credit 3 hours  
Students will study health care from multiple perspectives, including those of the patient, the practitioner and the policy-maker. This second course in the two-course sequence will focus on policy issues that arise from problems identified during the study of health care as a social and economic activity. Students will explore issues of access, affordability and quality in the delivery of health care, and consider how government policy might best address these issues. They will also consider the ethical dimensions of public policy health care choices. To explore these issues in depth, and to develop critical thinking, information literacy and inquiry skills, students will engage in an in-depth collaborative investigation of particular health care issues.

Note that this course is part of a two course sequence (FYI 169A/FYI 169R) designed to meet the 6-unit FYI requirement for Essential Studies. FYI 169A is a prerequisite for enrolling in FYI 169R.

FYI 169S  Without the Arts You’re Only Half a Brain, Part 1  
Credit 3 hours  
Students will explore the dwindling support for the arts in American society and discover reasons for encouraging active participation in the arts. During the course students will work in teams to create digital materials (YouTube video commercials, radio ads, print ads, web sites, blogs, and news releases) to advocate for the arts.
FYI 169T  Without the Arts You’re Only Half a Brain, Part 2  Credit 3 hours
This course is the second part of Without The Arts You Are Half A Brain Part 1. This class will produce print media, radio commercials, YouTube videos, web sites, blogs, and social media in support of the arts.

FYI 169U  Study of Natural Disasters  Credit 3 hours
Students will choose a natural disaster and make a detailed study. The study will include understanding the cause of the disaster, computing social, physical and economic costs, and finding techniques for prevention and/or preparation for future events.

FYI 169V  Nutrition, Weight Loss and Wellness  Credit 3 hours
A recurring issue in American life is overweight and obesity. This course provides the opportunity for you (students) to inquire and come to conclusions about weight loss methods and diets (weight management), based on the science of nutrition and the theme of wellness. Whether you desire to lose weight, or you want to work with others in resolving their weight issues and maximizing wellness, this course may be for you! This course will help you unlock the mysteries of nutrition, weight, and wellness.

FYI 169W  Literature and Practice of World Regions  Credit 6 hours
This course is designed to introduce students to the practice of inquiry through various modes of exploring six of the world’s religions. In order to engage in an interdisciplinary and multi-modal exploration of world religions through the following activities, students will read and analyze primary literature of those religions as literature, and especially as religious literature; to the degree possible in such a context, understand those religions through their rituals and practices; and write reflectively about their experiences exploring these religions through their literature and practices.

FYI 169X  Survival Skills 101  Credit 3 hours
A common theory studied in developmental courses is Abraham Maslow’s Hierarchy of Basic Needs. This course is a study of Maslow’s theory as it applies to the traditional college age student. From the basic needs of food, clothing, and shelter, to the higher needs of esteem and self-actualization, this course asks students to discover the methods and means of making considered choices, regarding basic needs.

GEOGRAPHY

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.

GEOSCIENCE

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 230  Natural Hazards and Disasters  Credit 3 hours
The cause and effects of natural disasters can be understood using an Earth system science approach. Science and technology are limited in their ability to predict disasters. Recognizing these limitations, students will explore the roles of individuals in broader societal issues relating to disaster preparedness, damage and cost mitigation as they relate to natural hazards.

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  Earth System History  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 Earth System History 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 3 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 a 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 426A  Research Microscopy  Credit 1 hour
Microscopic principles and techniques focusing on the use of microscopes in scientific inquiry and diagnosis. Includes light and optic theory, specimen preparation, image collection and interpretation, and types of research microscopes. Recommend taking with GEOS 426B. Prerequisites: 12 hours of Biology/Geoscience credit, or approval of the instructor. Cross-listed as BIOL 436A.

GEOS 426B  Introduction to Scientific Research  Credit 2 hours
Scientific research methodology, including development of testable hypotheses, research design, data analysis introduction, grant proposal writing, and writing research papers. Recommend taking with GEOS 426A. Prerequisite: 12 hours of Biology/Geoscience credit, or approval of the instructor. Cross-listed as BIOL 436B.

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 434  Introduction to Oceanography  Credit 3 hours
An earth-system approach to study of the oceans. Includes discussion of physical and biological phenomena in the oceans; analyzes interactions among the hydrosphere atmosphere and geosphere; and considers humans as stewards of ocean resources. Field trips may be required.

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 439L 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.

GEOS 446  Field Camp  Credit 3-6 hours
   Intensive experience in field data collection leading to the solution of geologic problems; construction of geologic maps, stratigraphic columns, cross-sections; preparation of reports. Course conducted off-campus. Prerequisites: GEOS 338, 431, 432 and 439, or approval of instructor. Instructional fee required.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

HPER 100  Individualized Fitness  Credit 1 hour
   An independently designed program to allow students to individually follow programs to meet their fitness needs.

HPER 103  Golf  Credit 1 hour
   The rules of play, golf etiquette, woods, short iron shots, approach shots, putting, and regular play are emphasized. Additional fees required.

HPER 107  Individual Sport Activities  Credit 3 hours
   The Individual Sport Activities course will expose students to the necessary playing rules and participation skills for a variety of individual sports, which will allow for positive lifestyle changes through the involvement in lifelong activities. Individual Sport Activities may include but not be limited to, Bowling, Golf, Tennis, Racquetball, Frisbee Golf, Etc.

HPER 108  Fitness Activities  Credit 3 hours
   The Fitness Activities course will expose students to the necessary rules and skills for a variety of lifetime fitness activities, which will allow for positive lifestyle changes through the involvement in lifelong activities. Fitness Activities may include but not be limited to, Aerobics, Weight Training, Physical Fitness, Fitness Testing, Pilates, etc.

HPER 111  Social Dance Activities  Credit 3 hours
   The Social Dance course will expose students to the history of dance, various styles of dance, and the acquisition of a variety of developmental dance steps to successfully participate in a social dance setting. This will allow for positive lifestyle changes through the involvement in lifelong activities. Social Dance may include but not be limited to a wide variety of cultural dances such as; Folk Dance, Latin Dance, Round and Square Dance, Ballroom dance, and Country Western Swing/line Dance.

HPER 112  Aquatics  Credit 1 hour
   To develop an intermediate level of swimming ability.

HPER 120  Outdoor Activities  Credit 3 hours
   The Outdoor Adventure Activities course will expose students to the necessary rules and participation skills for a variety of outdoor adventure activities, which will allow for positive lifestyle changes through the involvement in lifelong activities. Outdoor Adventure Activities may include but not be limited to Canoeing, Fishing, Hiking, Mountain Biking, Cross Country Skiing, etc.
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 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 207  Team Sports Activities  Credit 3 hours
The Team Sport Activities course will expose students to the necessary playing rules and participation skills for a variety of team sports, which will allow for positive lifestyle changes through involvement in the provided lifelong activities.

HPER 209  Advanced Fitness Activities  Credit 3 hours
The Advanced Fitness Activities course will expose students to the necessary rules and skills for a variety of lifetime fitness activities, which will allow for positive lifestyle changes through the involvement in lifelong activities. Advanced Fitness Activities may include but not be limited to Advanced Weight Training, Powerlifting, Triathlon, Ironman, etc. This course requires Medical Permission for enrollment.

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 223  Aquatics and Water Safety  Credit 3 hours
The Aquatic and Water Safety Activities course will expose students to the necessary safety rules and participation skills for a variety of aquatic activities, which will allow for positive lifestyle changes through the involvement in lifelong activities. Aquatic and Water Safety Activities may include but not be limited to, a variety of swimming techniques, Lifeguard Training, and Water Safety Instruction.

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  Anatomical and Physiological Kinesiology  Credit 3 hours
Detailed work on the skeletal muscular system with direct application to movement, stretching and strengthening of the skeletal muscles. Study of the nervous, skeletal, muscular, circulatory, and respiratory systems of the body as it applies to, and is affected by exercise.

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 3 hours
Designed to provide the Health Educator with an in-depth knowledge base in current Health Problems in Contemporary Society.

HPER 321  Coaching Techniques—Football  Credit 2 hours
Fundamentals and coaching techniques in football. Prerequisite: HPER 220.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HPER 322</td>
<td>Coaching Techniques—Basketball</td>
<td>2 hours</td>
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<td>Fundamentals and coaching techniques in basketball. Prerequisite: HPER 220.</td>
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<tr>
<td>HPER 323</td>
<td>Coaching Techniques—Volleyball</td>
<td>2 hours</td>
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<td>Fundamentals and coaching techniques in volleyball. Prerequisite: HPER 220.</td>
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<tr>
<td>HPER 325</td>
<td>Teaching Individual and Dual Sports</td>
<td>3 hours</td>
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<td></td>
<td>Techniques of teaching and coaching the individual and dual sports which may be taught to the recreation or public school student</td>
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<tr>
<td>HPER 329</td>
<td>History of Physical Education</td>
<td>2 hours</td>
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<td></td>
<td>Introduction to the historical development of physical education from ancient to modern times.</td>
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<td>HPER 333</td>
<td>Leadership in Recreation</td>
<td>3 hours</td>
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<td></td>
<td>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.</td>
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<td>HPER 335</td>
<td>Organization and Administration of Health, Recreation, Physical Education and Athletics</td>
<td>3 hours</td>
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<td></td>
<td>A study of administrative practices and their application to the fields of Health, Physical Education, Recreation, and Athletics.</td>
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<td>HPER 336</td>
<td>Fitness Evaluation &amp; Exercise Prescription</td>
<td>3 hours</td>
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<td></td>
<td>Integrate the principles and theories of exercise physiology, kinesiology, nutrition, psychology, and measurement with application to physical fitness testing and individualized exercise program design. Prerequisite: HPER 232</td>
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<tr>
<td>HPER 339</td>
<td>Theory of Physical Education K-8</td>
<td>3 hours</td>
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<td></td>
<td>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.</td>
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<tr>
<td>HPER 400</td>
<td>Independent Study or Research</td>
<td>1-4 hours</td>
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<td>Designed to permit students to participate in more individual investigations and individualized courses of study. Permission of Academic Dean and Department Chair required.</td>
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<tr>
<td>HPER 421</td>
<td>Philosophical and Psychological Foundations of Sport</td>
<td>2 hours</td>
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<td></td>
<td>Philosophical, sociological, and psychological aspects of coaching. Prerequisite: HPER 220.</td>
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<tr>
<td>HPER 422</td>
<td>Introduction to Adapted Physical Education</td>
<td>3 hours</td>
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<td></td>
<td>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.</td>
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<td>HPER 423</td>
<td>Coaching Techniques—Wrestling</td>
<td>2 hours</td>
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<td></td>
<td>Fundamentals and coaching techniques in wrestling. Prerequisite: HPER 220.</td>
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<tr>
<td>HPER 424</td>
<td>Coaching Techniques—Track</td>
<td>2 hours</td>
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<td></td>
<td>Fundamentals and coaching techniques in track. Prerequisite: HPER 220.</td>
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<tr>
<td>HPER 425</td>
<td>Coaching Techniques—Golf &amp; Tennis</td>
<td>2 hours</td>
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<td></td>
<td>Fundamentals and coaching techniques in golf &amp; tennis. Prerequisite: HPER 220.</td>
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<tr>
<td>HPER 426</td>
<td>Coaching Techniques—Baseball &amp; Softball</td>
<td>2 hours</td>
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<td></td>
<td>Fundamentals and coaching techniques in baseball &amp; softball. Prerequisite: HPER 220.</td>
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<tr>
<td>HPER 427</td>
<td>Rhythmic Movement</td>
<td>2 hours</td>
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</table>
Review of rhythmic activities and the methods of teaching rhythmic movements to the elementary and secondary school student. Students will learn to perform a variety of rhythmic activities and the methods of teaching educational dance.

**HPER 429**  
**Motor Movement**  
Credit 3 hours  
The exploration and explanation of materials, methods, and mechanisms that underlie the learning and performance of motor skills and practical experience in designing and implementing physical education activities, which develop fundamental and sport-related movement skills.

**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 and Health**  
Credit 3 hours  
A study and evaluation of present day trends in physical and health education. A discussion of principles and procedures for curriculum construction and criteria for the selection of activities and judging outcomes.

**HPER 436**  
**Outdoor Adventure Skills**  
Credit 3 hours  
To acquaint prospective teachers and recreationists with the concepts of outdoor adventure skills. To better understand the use of personal leisure time in the out-of-doors. Prerequisite: HPER 120. Additional fees required.

**HPER 437**  
**Legal Aspects of Sports and Recreation**  
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 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. Prerequisite: HPER 232, 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.

**HPER 440**  
**Prevention and Care of Athletic Injuries**  
Credit 3 hours  
Knowledge and practice in the care of athletic injuries and physical conditioning.

**HPER 441**  
**Coordinated School Health Program**  
Credit 3 hours  
Building on the foundation in school health education, this course will provide the knowledge and skills needed to investigate, define, design, implement, and evaluate comprehensive coordinated school health programs. Focus on the health and physical activity components of the Coordinated School Health Program (CSHP) model. Prerequisite: HPER 236.
HPER 449  Event and Facility management  Credit 3 hours
Explorations into the proper steps necessary to successfully plan and implement events associated with Recreation and Sport. Evaluation of the procedures utilized in the effective management of Recreation and Sport facilities.

HPER 453  Sports Officiating  Credit 3 hours
This course is designed to acquaint the student with the qualifications, philosophies, principles, and techniques governing the art of officiating sports. Prerequisite: HPER 220.

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: HPER 226

HISTORY

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 321  The History of the Pacific Rim  Credit 3 hours
The History of the Pacific Rim is a comprehensive interdisciplinary course covering the history, geography, economics, politics, and culture of the peoples who have inhabited the borders of the Pacific Ocean—including the United States, Canada, Russia, Japan, China, Vietnam, Indonesia, Australia, Oceania, and Latin America—over the past half-millennium. Topics will include environmental transformation, colonialism, international diplomacy, World War II, and globalization.

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 344  U.S. Political History in the 20th Century
Credit 3 hours
History of American politics and political movements between 1896 and 2001. Particularly focuses on how changes to an increasingly urban and internationally powerful country changed its political processes and values. Cross-listed as PS 344.

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 429  Civil Rights and the Vietnam War
Credit 3 hours
A study of the origins, rationales, and results of the Civil Rights movement and the background, strategies, reasons for failure, and long-term effects of the Vietnam conflict.

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.
COURSE DESCRIPTIONS

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 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.

HIST 449  Turn of the Century America  Credit 3 hours
A study of the years 1865 to 1915. Included topics will be reconstruction of the post-war South, immigration, urbanization, the labor movement, American settlement of the west, Populism and Progressivism, the Spanish-American/ Theodore Roosevelt era growth in American international power, and the drift towards world war.

HIST 450  World War I  Credit 3 hours
A study of the first world war from the perspective of Europe and the United States.

HIST 451  History of Canada to 1867  Credit 3 hours
Examines the fascinating history of Canada from its beginnings to 1867. This course investigates the political, social, and economic development of Canada from the formation of First Nations societies to Confederation. Some of the topics will include: early European explorations, the rise and fall of New France, the fur trade, the expansion of British North America, the rebellions of Upper and Lower Canada, and Confederation.
HIST 452  History of Canada Since 1867  Credit 3 hours
Examines the history of Canada from 1867 to the present. This course investigates the political, social, and economic development of Canada since Confederation. Some of the course themes will underscore Canada’s participation in global events and trends, such as industrialization, World Wars I and II, the Great Depression, the Cold War, and globalization. Other issues, more specific to Canada, will also be covered: the evolution of Canadian identity, relations with First Nations’ peoples, Canada’s relationship to the United States, and lingering tensions between English-speaking and French-speaking Canadians.

HIST 453  American Environmental History: Problems, Advances, Contradictions  Credit 3 hours
Examines the history of the United States through its interactions with nature, from the colonial era to the present. In addition to examining the history of resource use, this course examines how the environment functions as a critical tool in defining cultural, political, and gender relationships among Americans.

HIST 460  American Military History  Credit 3 hours
This course is a comprehensive but brief account of American Military from 1763 to the present. This is a study of how societies form their institutions for their collective security and how those institutions operate in peace and war. It includes the entire range of economic, social, legal, political, technological, and cultural issues that arise from the state’s need to organize violence to preserve its existence and accomplish its national goals.

HUMANITIES

HUM 160  Introduction to the Humanities  Credit 1-3 hours
An introduction to the interdisciplinary study of humanistic knowledge, inquiry, and values focusing on connections among humanities disciplines. May be repeated with a change in emphasis.

HUM 231  Humanistic Perspectives  Credit 3 hours
The formal study of cultural ideas and values as they achieve expression through the arts and philosophy. Themes and topics may vary. Prerequisite: A minimal score of 19 on the ACT Reading Test (or equivalent reading test approved by the college) or a C in READ 125.

HUM 232  The Humanistic Tradition I: The Classical World  Credit 3 hours
Introduction to the thought, values, and arts of Western culture from the Archaic Greek age through the end of the Roman Empire. Readings and discussions focus on literature, philosophy, the arts, and religion. Prerequisite: A minimal score of 19 on the ACT Reading Test (or equivalent reading test approved by the College) or a C in READ 125.

HUM 233  The Humanistic Tradition II: The Medieval World and Renaissance  Credit 3 hours
Introduction to the thought, values, and arts of Western culture from the rise of Christianity in the Middle Ages through the waning of the European renaissance in the sixteenth century, including the Protestant Reformation and Counter-Reformation. Readings and discussions focus on literature, philosophy, religion, and the arts. Prerequisite: A minimal score of 19 on the ACT Reading Test (or equivalent reading test approved by the College) or a C in READ 125.

HUM 234  The Humanistic Tradition III: The Age of Enlightenment and Romanticism  Credit 3 hours
Introduction to the thought, values, and arts of Western culture from the mid-sixteenth century Scientific Revolution through the early nineteenth century British, Continental, and American Romantic movements. Readings and discussions focus on literature, philosophy, religion, and the arts. Prerequisite: A minimal score of 19 on the ACT Reading Test (or equivalent reading test approved by the College) or a C in READ 125.

HUM 235  The Humanistic Tradition IV: Modernity and Post-Modernity  Credit 3 hours
Introduction to the thought, values, and arts of Western culture from the beginnings of modernism in the mid-nineteenth century through our own contemporary era. Readings and discussions focus on literature, philosophy, cinema, religion, and the arts. Prerequisite: A minimal score of 19 on the ACT Reading Test (or equivalent reading test approved by the College) or a C in READ 125.
HUM 301  Beat Culture: Film, Philosophy, Literature  Credit 3 hours
This is an interdisciplinary humanities course where we will explore the lives, work, and legacy of the Beat Generation, with a special focus on its “founders”. Discussions will include music, the art of the Abstract Expressionists and the huge culture industry that has grown up around the Beats.

HUM 302  Film & Philosophy  Credit 3 hours
This course will examine recent work in the philosophy of film, focusing on the relationship between film and philosophy and exploring in depth the idea of ‘film as philosophy’.

HUM 303  Modernism & Manifestos  Credit 3 hours
This is an interdisciplinary humanities course where we will explore the history of the manifesto as a lens through which to examine the intersection of art, philosophy, literature, and film in the late-nineteenth and twentieth century.

HUM 330  Arms and Men: Crisis and Conflict in the Humanities  Credit 3 hours
This course will investigate notions of human conflict and aggression through the humanistic perspective. This course will strive to determine whether human conflict is an inevitable part of the human condition.

HUM 332  Love and Desire in the Western Tradition  Credit 3 hours
A study of the development of Western notions of romantic love from the classical age to the present. Readings and discussions focus on literature, philosophy, history, the arts, and religion.

HUM 333  Exploration in the Humanities  Credit 3 hours
An in-depth analysis of a key concept in humanistic thought and expression or of a major contemporary issue from an interdisciplinary humanities perspective.

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

HUM 335  Comparative Religions  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 336  High Plains Humanities  Credit 3 hours
An integrative study of the diverse cultural expressions by and about peoples living in the High Plains region of America past and present, including Native Americans. Artifacts and areas of study will include literature, visual and performing art, religion, architecture, design, and film.

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  Credit 3 hours
A survey of world mythology as major sources of inspiration, allusion, and imagery in the expressive arts.

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  
Introduces students to 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 323  
**Law and the American Society**  
Credit 3 hours  
Nature, functions, and limits of law and its impact on economic, political, and social institutions.

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  
Examines 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  
Focuses on 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 memoranda, 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
A course focusing on the legal status of children. Studies the 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
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
An overview of ethical considerations in the legal profession, including canons of ethics and ethical standards governing lawyers and Legal Assistants. The course examines client confidentiality, unauthorized practice of the law, conflicts of interest and disqualification, attorney-client privilege, the work product rule, financial matters, zealoussness within the bounds of the law, and competence.

**LS 438  Topics in Law**
Credit 1-3 hours
Topics selected to meet the needs of students in a special area of interest in law. Prerequisite: LS 337 or CJ 337 or permission of instructor. Cross-listed as CJ 438.

**LS 442  Honors in Legal Studies**
Credit 1-3 hours
Selected courses and topics designed for upper division students with a grade point average of 3.25 or above in all course work. May be repeated up to a maximum of twelve (12) semester hours. Prerequisite: Permission of Instructor. Cross-listed as CJ 442.

**LS 443  Topics in Commercial Law**
Credit 3 hours
Topics selected to meet the needs of students in a special area of interest in commercial law. Prerequisite: LS 231 or permission of instructor.

**LS 447  Applied Issues in Legal Studies**
Credit 1-9 hours
Projects, workshops, field experiences and seminars that focus on a specialized area of Legal Studies. Cross-listed as CJ 447. Permission of instructor is required.
LIBRARY INFORMATION MANAGEMENT

LMS 150  Introduction to Libraries  Credit 3 hours
Orientation to the library and the concept of information, including history and development, types of libraries and career opportunities, basic library concepts and issues, technology, terminology and trends.

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.

MANAGEMENT

MGMT 160 Topics in Management  Credit 1-3 hours
Topics or seminars will be selected as needed to keep students abreast of contemporary issues in 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 Topics in Management  Credit 1-3 hours
Topics or seminars will be selected as needed to keep students abreast of contemporary issues in management.

MARKETING/ENTREPRENEURSHIP

MKTG 160 Topics in Marketing/Entrepreneurship  Credit 1-3 hours
Topics or seminars will be selected as needed to keep students abreast of contemporary issues in marketing/entrepreneurship.

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 334 Entrepreneurship — Imagination and Opportunity  Credit 3 hours
Explores the creative process and help students identify their own creative problem-solving styles. Students will have to develop innovative solutions centered around new product, service and process development. Students will learn to judge the quality of their creative solutions. Explore opportunities for product/service. Analyze the new product/service development process.
## COURSE DESCRIPTIONS

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MKTG 335</td>
<td>Entrepreneurship — Business Start-Up</td>
<td>3 hours</td>
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<td>Provides an opportunity for students to identify characteristics necessary for a successful entrepreneur and assess their personal skills, attitudes, education, and experience. Explore opportunities for product/service. Analyze the new venture creation and funding avenues. Prerequisite or co-requisite: MKTG 231 or equivalent or consent of instructor.</td>
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<tr>
<td>MKTG 336</td>
<td>Entrepreneurship — Promotions and Advertising</td>
<td>3 hours</td>
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<td></td>
<td>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.</td>
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<tr>
<td>MKTG 338</td>
<td>Buyer Behavior</td>
<td>3 hours</td>
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<td></td>
<td>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.</td>
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<tr>
<td>MKTG 435</td>
<td>Business and Marketing Strategy</td>
<td>3 hours</td>
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<td></td>
<td>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.</td>
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<tr>
<td>MKTG 439</td>
<td>Business and Marketing Research</td>
<td>3 hours</td>
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<td></td>
<td>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.</td>
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<tr>
<td>MKTG 460</td>
<td>Topics in Marketing/Entrepreneurship</td>
<td>1-3 hours</td>
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<tr>
<td></td>
<td>Topics or seminars will be selected as needed to keep students abreast of contemporary issues in marketing/entrepreneurship.</td>
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## MATHEMATICS

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MATH 100</td>
<td>Pre-College Algebra</td>
<td>3 hours</td>
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<tr>
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<td>Problem-solving skills, applied algebra and geometry, and basic data analysis. The goal is to develop readiness for a college algebra or statistics course. This course does not meet General Studies or specific program requirements. Prerequisite: MATH ACT greater than 15 or permission of instructor.</td>
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<tr>
<td>MATH 132</td>
<td>Applied Mathematics</td>
<td>3 hours</td>
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<td></td>
<td>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.</td>
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<tr>
<td>MATH 133</td>
<td>Introduction to Mathematics</td>
<td>3 hours</td>
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<td></td>
<td>Everyday mathematics with practical applications. Relationship of mathematics to the larger encompassing structure of mathematics. History of mathematics.</td>
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<tr>
<td>MATH 134</td>
<td>Plane Trigonometry</td>
<td>3 hours</td>
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<td>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.</td>
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<tr>
<td>MATH 135</td>
<td>Pre-Calculus Mathematics</td>
<td>3 hours</td>
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<td></td>
<td>Algebraic analysis of geometric figures. Functions include polynomial, rational, exponential, logarithmic, and trigonometric. Prerequisite: three years of high school mathematics or equivalent.</td>
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<tr>
<td>MATH 137</td>
<td>Mathematics Topics for Elementary Teachers</td>
<td>3 hours</td>
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<td>Algebra operations, properties, functions and systems of equations and inequalities. Discrete mathematics topics, including logic, discounts, taxes, buying a house, credit cards, and problem solving. History of mathematics.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>MATH 138</td>
<td>Applied Calculus</td>
<td>3 hours</td>
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<tr>
<td>MATH 142</td>
<td>College Algebra</td>
<td>4 hours</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I</td>
<td>5 hours</td>
</tr>
<tr>
<td>MATH 142</td>
<td>Applied Statistics</td>
<td>3 hours</td>
</tr>
<tr>
<td>MATH 232</td>
<td>Mathematics for the Elementary Teacher I</td>
<td>3 hours</td>
</tr>
<tr>
<td>MATH 235</td>
<td>History of Mathematics</td>
<td>3 hours</td>
</tr>
<tr>
<td>MATH 236</td>
<td>History and Foundations of Mathematics</td>
<td>3 hours</td>
</tr>
<tr>
<td>MATH 237</td>
<td>Discrete Mathematics</td>
<td>3 hours</td>
</tr>
<tr>
<td>MATH 252</td>
<td>Calculus II</td>
<td>5 hours</td>
</tr>
<tr>
<td>MATH 270</td>
<td>Topics in Mathematics</td>
<td>1-3 hours</td>
</tr>
<tr>
<td>MATH 331</td>
<td>Probability and Statistics</td>
<td>3 hours</td>
</tr>
<tr>
<td>MATH 334</td>
<td>College Geometry</td>
<td>3 hours</td>
</tr>
</tbody>
</table>
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 439  Theory of Statistics
Credit 3 hours
Joint distribution concepts, conditional expectations, method of distribution functions, transformation, method of moment-generating functions, order statistics, sampling distributions, central limit theorem, continuous and discrete random variables. Prerequisite: MATH 151 and MATH 331 or equivalent.

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.

MILITARY SCIENCE LEADERSHIP

MSL 101  Leadership and Personal Development
Credit 2 hours
Make your first peer group at college one committed to performing well and enjoying the experience. Increase self-confidence through team study and activities in basic drill, physical fitness, rappelling, leadership reaction course, first aid, making presentations and basic marksmanship. Learn fundamental concepts of leadership in a profession in both classroom and outdoor laboratory environments. Corequisite: MSL 101L.

MSL 101L  Leadership and Personal Development Lab
Credit 1 hour
Designed to accompany MSL 101. Provides the students with hands-on experience to supplement and reinforce classroom instruction. Subjects addressed include drill and ceremonies, physical fitness training, marksmanship, first aid, rappelling and basic mountaineering skills, voluntary off campus activities reinforce course work. Corequisite: MSL 101.

MSL 102  Introduction to Tactical Leadership
Credit 1 hour
Learn and apply principles of effective leadership. Reinforce self-confidence through participation in physically and mentally challenging exercise with upper-division ROTC students. Develop communication skill to improve individual performance and group interaction. Relate organizational ethical values to the effectiveness of a leader. Corequisite: MSL 102L.

MSL 102L  Introduction to Tactical Leadership Lab
Credit 1 hour
Designed to accompany MSL 102. Provides the students with hands-on experience to supplement and reinforce classroom instruction. Subjects addressed include drill and ceremonies, physical fitness training, marksmanship, first aid, rappelling and basic mountaineering skills, voluntary off campus activities reinforce course work. Corequisite: MSL 102.

MSL 109  Military Fitness
Credit 3 hours
Military fitness is a conditioning course designed to provide students with military fitness training techniques and methods used in the U.S. Army. This course will primarily be work-out oriented with emphasis on physical fitness goals and demonstrated student participation in physical training activities.
MSL 201  Innovative Team Leadership  Credit 1 hour
Learn/apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams of people. Develop skills in oral presentations, writing concisely, planning events, coordination of group efforts, advanced first aid, land navigation, and basic military tactics. Learn fundamentals of ROTC’s leadership assessment program. Corequisite: MSL 201L

MSL 201L  Innovative Team Leadership Lab  Credit 1 hour
Students will develop leadership and management skills by being given the opportunity to perform duties in various leadership positions. Emphasis is placed on the development of leadership and managerial skills. Course is supplemented with instruction on the use of a lensatic compass and a topographic map, as well as various survival skills. Voluntary off campus activities reinforce course work. Corequisite: MSL 201.

MSL 202  Foundations of Tactical Leadership  Credit 1 hour
Introduction to individual and team aspects of military tactics in small unit operations. Includes use of radio communications, making safety assessments, movement techniques, planning for team safety/security and methods of pre-execution checks. Practical exercises with upper-division ROTC students. Learn techniques for training others as an aspect of continued leadership development. Corequisite: MSL 202L.

MSL 202L  Foundations of Tactical Leadership Lab  Credit 1 hour
Students are provided the opportunity to reinforce classroom leadership and management training with practical experience. Students will also receive training in small unit tactics and use of the m-16 rifle. Voluntary off campus activities reinforce course work. Corequisite: MSL 202.

MSL 301  Adaptive Team Leadership  Credit 2 hours
Series of practical opportunities to lead small groups, receive personal assessments and encouragement, and lead again in situations of increasing complexity. Uses small unit tactics and opportunities to plan and conduct training for lower division students both to develop such skills and as vehicles for practicing leadership. Corequisite: MSL 301L.

MSL 301L  Adaptive Team Leadership Lab  Credit 2 hours
Provides the student with practical experience to supplement and reinforce classroom instruction. Subjects include drill and ceremonies, physical training instruction techniques and leadership, which will complement the student’s preparation for ROTC advanced camp. Corequisite: MSL 301.

MSL 302  Leadership in Changing Environments  Credit 2 hours
Continues methodology of MSL 301. Analyze tasks; prepare written or oral guidance for team members to accomplish tasks. Delegate tasks and supervise. Plan for and adapt to the unexpected in organizations under stress. Examine and apply lessons from leadership case studies. Examine importance of ethical decision making in setting a positive climate that enhances team performance. Prerequisite: MSL 301.

MSL 302L  Leadership in Changing Environments Lab  Credit 2 hours
Provides student with additional training in land navigation, drill and ceremonies, physical training, instruction techniques and leadership, which will complement the students’ preparation for ROTC advanced camp. Off campus training is required. Corequisite: MSL 302.

MSL 391  Survey of American Military History  Credit 3 hours
This course is a survey of military history with the military institutions, technology and techniques, from 1793 to the present. The course will study the interrelationships of warfare, technology and society in American history. The course will focus on such items as the changes in techniques in warfare, the make-up of military establishments and the introduction of technology into military warfare. It will also view the political and societal changes that have influenced the nature of warfare in America.

MSL 401  Development Adaptive Leaders  Credit 2 hours
Introduces formal management skills including problem analysis, planning techniques, and the delegation and control of activities, providing an understanding of the command and staff organization used in the modern army and creating a forum for discussing professional and ethical decisions faced by commissioned officers. Corequisite: MSL 401L.
MSL 401L  Development Adaptive Leaders Lab  Credit 2 hours
Provides practical experience supplementing and reinforcing classroom instruction, including drill and ceremonies, physical fitness training, instruction techniques, and operation of the cadet battalion. Off-campus training required. Corequisite: MSL 401.

MSL 402  Leadership in a Complex World  Credit 2 hours
Provides information for transition to active or reserve commissioned service, developing administrative controls essential in managing a military organization, introducing the management of financial and personal affairs, and allowing time for discussion and analysis of the ethical decision-making process. Corequisite: MSL 412.

MSL 402L  Leadership in a Complex World Lab  Credit 2 hours
Provides practical experience supplementing and reinforcing classroom instruction, including drill and ceremonies, physical fitness training, instructional techniques, small unit leadership and familiarization with duties of commissioned officers. Off-campus training is required. Corequisite: MSL 402.

MUSEUM STUDIES

MS 160  Special Topics in Museums  Credit 1-3 hours
Special topics of current interest are considered in depth. Topics may include caring for photographs, textiles, and historic costumes. Students may take more than one topics course for credit. There are usually no prerequisites for these courses. This course may be taken multiple times, when topics have different content. Multiple sections of this course cannot be substituted for another course in the Museum Studies Program.

MS 231  Introduction to Museums  Credit 3 hours
This course is an introduction to and survey of the history and philosophy of the development of the museum in America and Western Europe. In addition, students will learn about the different types of museums and influential people who helped in the development of the modern museum profession.

MS 235  Introduction to Archival Collections  Credit 3 hours
This course will introduce students to the history and social value of records and archives, the theory of archival practice, and to the application of archival theory in the digital world.

MS 330  Management and Care of Collections  Credit 3 hours
This course will introduce students to the professional principles and practices in the care and management of collections housed in museums and research facilities. Topics covered will include collections development, museum registration methods, cataloging, collections care, agents of deterioration, and application of the rules of proper handling, storing, and caring for museum collections.

MS 331  Exhibit Design  Credit 3 hours
This course provides a theoretical and practical approach to the development, planning, design, and installation of museum exhibitions. Students will develop an understanding of approaches to presenting museum exhibits, and learn basic principles of exhibit design, fabrication and preparation techniques. Students are also introduced to exhibition-related conservation issues and assessment of visitor needs.

MS 333  Museum Administration  Credit 3 hours
This course is an introduction to the legal and operational structure of museums, personnel issues, and financial management aspects of museum administration. Topics covered in course will also include ethical and legal issues in museums, professional standards, and challenges of museum administration.

MS 340  Museum Education  Credit 3 hours
This survey of museum education introduces students to the educational role of museums and informal learning centers. A variety of methods available to museums, including hands-on activities, self-teaching materials, technology, outreach, tours, and drama are explored through exercises, projects, museum visitor observation, and in-museum classes. Issues covered include current trends, learning theories and styles, learning from objects, diverse audiences, museum/school partnerships, and the role of education in exhibit development.
COURSE DESCRIPTIONS

MS 390  Internship in Museum Studies  Credit 1-12 hours
Students will gain practical experience while working with a museum or collection. 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.

MUSIC

MUS 016  Chadron State Community Chorus  Credit 0-1 hour
Open to all students and community members without audition. This choir performs a wide array of literature from standard to contemporary choral repertoire and gives at least one concert performance each semester.

MUS 018  Chadron State Community Symphonic Band  Credit 0-1 hour
Open to all students and community members. This ensemble gives a minimum of one concert performance each semester.

MUS 100  Elective Private Music Instruction  Credit 1 hour
Open to nonmajors as well as to majors studying on a secondary basis, according to instructor availability. Individual instruction in piano, organ, voice, percussion, brass instruments, woodwind instruments, stringed instruments, and composition. Attendance at a number of concert events required. Prerequisite: permission of instructor.

MUS 101  Student Recital  No Credit
Course includes selective student performances by music majors and minors and supplemental instruction related to private music lessons. Registration is required each semester for music majors and minors.

MUS 102  Wind Symphony  Credit 1 hour
Open to all students who qualify by audition. This ensemble gives a minimum of one concert performance each semester.

MUS 103  Concert Choir  Credit 1 hour
Open to all students who qualify by audition. This ensemble performs works representing standard and contemporary literature for its regular concerts covering a variety of styles and musical genres.

MUS 104  Vocal Jazz Ensemble  Credit 1 hour
Open to all students who qualify by audition. This ensemble is a select mixed group that performs vocal jazz pieces accompanied by a small jazz combo.

MUS 105  Jazz Band  Credit 1 hour
Open to all students who qualify by 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 by 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 by 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 by 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 by audition. This ensemble gives a minimum of one concert performance each semester.
MUS 110  Keyboard Ensemble  
Credit 1 hour  
Open to all students who qualify by audition. This ensemble gives a minimum of one concert performance each semester.

MUS 111u  Guitar Ensemble  
Credit 1 hour  
Guitar Ensemble offers practical experience in the study and performance of standard and avant-garde repertoire for the modern electric guitar.

MUS 112  Music Foundations  
Credit 3 hours  
This course prepares students for successful completion of the music theory sequence. Skills emphasized include music reading and writing, ear training, and fundamental concepts of music theory, including major and minor keys, intervals, and triads.

MUS 114  Introduction to Music Education  
Credit 2 hours  
This course is designed to assist prospective music education students in determining their interest and potential in the music education profession. This should be the first course of study for the Bachelor of Science in Education with a field endorsement in music education degree.

MUS 115  Private Music Instruction  
Credit 1-2 hours  
Open to majors and minors by audition. Individual instruction in piano, organ, voice, percussion, brass instruments, woodwind instruments, and stringed instruments. Student must enroll simultaneously in MUS 101. Prerequisite: Permission of instructor.

MUS 116  Piano Class Foundations I  
Credit 1 hour  
Beginning-level piano instruction for students with little (or no) prior playing experience.

MUS 117  Piano Class Foundations II  
Credit 1 hour  
Instruction in basic keyboard skills, including major scales and arpeggios, specified chord progressions, sight-reading, and harmonization of simple melodies. Prerequisite: MUS 116 or permission of instructor.

MUS 118  Piano Class Foundation III  
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. Prerequisite: MUS 117 or permission of instructor.

MUS 124  Women’s Vocal Ensemble  
Credit 1 hour  
Open to all women by audition. This ensemble performs regular concerts covering a variety of styles and musical genres.

MUS 125  Men’s Vocal Ensemble  
Credit 1 hour  
Open to all men by audition. This ensemble performs regular concerts covering a variety of styles and musical genres. Members must also enroll in Concert Choir.

MUS 126  Showband  
Credit 1 hour  
Open to all students who qualify by audition. The Showband is a select group of students for the purpose of representing the music program and the school at college and community functions, including football games and other athletic events.

MUS 131  Theory I  
Credit 3 hours  
This course focuses on the rudiments of Western classical music, including intervals, chords, and scales, and introduces students to the principles of tonal harmony and voice leading as practiced during the eighteenth and nineteenth centuries. Prerequisite: a grade of C or better in MUS 112, or successful completion of the music theory placement test. Must be taken concurrently with MUS 131L.

MUS 131L  Theory I Laboratory  
Credit 1 hour  
This course focuses on the development of aural skills through singing and active listening and is coordinated with the content of Theory I. Must be taken concurrently with MUS 131.
MUS 132  Theory II  Credit 3 hours
This course builds on the basic principles of Western harmony, utilizing analytical and compositional skills to develop an understanding of structural components in tonal music. Must be taken concurrently with MUS 132L. Prerequisite: a grade of C or better in MUS 131.

MUS 132L Theory II Laboratory  Credit 1 hour
This course focuses on the development of aural skills through singing and active listening and is coordinated with the content of Theory II, including examination of phrase structure. Must be taken concurrently with MUS 132.

MUS 199  Admission to Candidacy  No Credit
Performance assessment required of all music majors during the second semester of enrollment in private music instruction. Must be taken concurrently with MUS 115. Prerequisite: At least one prior semester of MUS 115 or permission of instructor.

MUS 215  Private Music Instruction  Credit 1-2 hours
Individual instruction in piano, organ, voice, percussion, brass instruments, woodwind instruments, and stringed instruments. Student must enroll simultaneously in MUS 101. Prerequisite: MUS 199 in the same performance medium or permission of instructor.

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 220  Functional Piano Skills  Credit 2 hours
Development of skills in harmonization, improvisation, sight-reading, score reading, and accompanying at the keyboard. 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. Prerequisite: MUS 118 or permission of instructor.

MUS 221  Keyboard Skills for the Classroom Teacher  Credit 2 hours
Refinement of keyboard skills with direct application to the music education environment, with emphasis in harmonization, score reading and accompanying. Prerequisite: MUS 220 or permission of instructor.

MUS 230  Voice Class for Non-majors  Credit 1 hour
Beginning vocal instruction and master class for nonmusic majors. Includes a study of vocal techniques and their application in selected vocal literature.

MUS 231  Theory III  Credit 3 hours
This course applies the skills learned in Theory I and II to the structural level, exploring the techniques of modulation and applying them through analysis of Baroque and Classical forms. Must be taken concurrently with MUS 231L. Prerequisite: MUS 132.

MUS 231L Theory III Laboratory  Credit 1 hour
This course focuses on the development of aural skills through singing and active listening and is coordinated with the content of Theory III, including aural recognition of structure. Must be taken concurrently with MUS 231.

MUS 232  Theory IV  Credit 3 hours
This course explores chromatic techniques of tonal harmony and continues to investigate forms. Techniques of counterpoint and sonata form will be explored in literature from the 18th through the 20th centuries. Jazz harmonies are also introduced. Must be taken concurrently with MUS 232L. Prerequisite: MUS 231.

MUS 232L Theory IV Laboratory  Credit 1 hour
This course focuses on the development of aural skills through singing and active listening and is coordinated with the content of Theory IV, including aural recognition of structure. Jazz improvisation techniques are also introduced. 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 238  Diction for Singers  Credit 1 hours
This course covers the study of diction for singers in four languages. The International Phonetic alphabet will be used in analyzing song texts in terms of diction and pronunciation.

MUS 240  Principles of Conducting  Credit 2 hours
A study of basic conducting techniques. Emphasis is placed upon the mastery of simple patterns, cues, and expressive gestures, and on common problems in leading group singing and in directing musical ensembles.

MUS 250 Music Education Practicum, K-8  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. This course replaces MUS 316 in the catalog for K-8 music education majors and will be offered in the fall of odd-numbered years.

MUS 251 Music Education Practicum, K-12  Credit 1 hour
Introduction to the study of the voice, wind, percussion, and string instruments. Students will gain practical performing skills for public school teachers. May be taken for repeated credit.

MUS 252 Music Education Practicum, K-8  Credit 1 hour
Students will complete any remaining student learning outcomes introduced in MUS 250. Prerequisite: MUS 250. This course will be offered every semester, but will typically be completed in the spring of even-numbered years, concurrent with MUS 321 – Choral Conducting.

MUS 269 Drumming  Credit 1 hour
Drumming is designed for those with no previous music experience and will teach the ability to move the hands to create rhythms within a group setting. The course will cover basic world music rhythms from Africa, Cuba, and Brazil, and will include the use of drumsticks culminating with basic drum set rhythms. Students will learn to perform in an ensemble, develop teamwork, and will perform in public during the semester. This course meets Essential Studies Outcome #5.

MUS 299  Sophomore Qualifying Examination  No Credit
Performance assessment required of all music majors prior to enrollment into upper-division private music instruction. A student must have a cumulative GPA of 3.00 on his/her major instrument or voice (MUS 115/215) to present the qualifying exam. Must be taken concurrently with MUS 215. Prerequisite: At least one prior semester of MUS 215 or permission of instructor.

MUS 300  Elective Private Music Instruction  Credit 1 hour
Open to nonmajors as well as to majors studying on a secondary basis, according to staff availability. Individual instruction in piano, organ, voice, percussion, brass instruments, woodwind instruments, stringed instruments, and composition. Prerequisite: permission of instructor.

MUS 302  Wind Symphony  Credit 1 hour
Open to all students who qualify by audition. This ensemble gives a minimum of one concert performance each semester.

MUS 303  Concert Choir  Credit 1 hour
Open to all students who qualify by audition. This ensemble performs works representing standard and contemporary literature for its regular concerts covering a variety of styles and musical genres.

MUS 304  Vocal Jazz Ensemble  Credit 1 hour
Open to all students who qualify by audition. This ensemble is a select mixed group that performs vocal jazz pieces accompanied by a small jazz combo.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MUS 305</td>
<td>Jazz Band</td>
<td>1 hour</td>
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<td>Open to all students who qualify by audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 306</td>
<td>Jazz and Pop Combo</td>
<td>1 hour</td>
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<td>Open to all students who qualify by audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 307</td>
<td>Woodwind Ensemble</td>
<td>1 hour</td>
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<td>Open to all students who qualify by audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 308</td>
<td>Brass Ensemble</td>
<td>1 hour</td>
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<td>Open to all students who qualify by audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 309</td>
<td>Percussion Ensemble</td>
<td>1 hour</td>
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<td>Open to all students who qualify by audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 310</td>
<td>Keyboard Ensemble</td>
<td>1 hour</td>
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<td>Open to all students who qualify by audition. This ensemble gives a minimum of one concert performance each semester.</td>
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<tr>
<td>MUS 311u</td>
<td>Guitar Ensemble</td>
<td>1 hour</td>
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<td>Guitar Ensemble offers practical experience in the study and performance of standard and avant-garde repertoire for the modern electric guitar.</td>
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<tr>
<td>MUS 315</td>
<td>Private Music Instruction</td>
<td>1-2 hours</td>
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<td></td>
<td>Individual instruction in piano, organ, voice, percussion, brass instruments, woodwind instruments, and stringed instruments. Student must enroll simultaneously in MUS 101 Student Recital. Prerequisite: MUS 299 in the same performance medium.</td>
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<tr>
<td>MUS 315o</td>
<td>Private Composition and Analysis</td>
<td>1-2 hours</td>
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<td>Individual instruction in composition and/or analysis. Students will set semester goals in conjunction with the instructor. The course is repeatable since goals will change each semester. Prerequisite: MUS 132 or permission of instructor.</td>
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<tr>
<td>MUS 315r</td>
<td>Survey of Instrument Repair Techniques</td>
<td>1 hour</td>
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<td>This laboratory course is designed to introduce students to repair techniques for the most common wind band instruments. Students will learn about the mechanical properties, the assessment of playing condition, and basic techniques for repairing instruments.</td>
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<tr>
<td>MUS 315v</td>
<td>Private Recording Techniques</td>
<td>2 hours</td>
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<td></td>
<td>An introduction to recording techniques using computer-based digital recording with standard software. This course will prepare students to produce demo recordings and include training in studio setup, signal flow, microphone placement, editing, plug-ins, and mixing. Open to all music majors or by permission of the instructor.</td>
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<tr>
<td>MUS 317</td>
<td>Seminar in Accompanying Techniques</td>
<td>2 hours</td>
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<td>Basic problems of accompanying, as well as problems peculiar to certain media. Students will be assigned to supervise accompanying for lessons and recitals. Prerequisite: Permission of Instructor.</td>
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<tr>
<td>MUS 319a</td>
<td>Piano Pedagogy</td>
<td>2 hours</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
MUS 319b  Music Studio Operations  
Credit 2 hours  
Practical issues of operating an independent music teaching studio. Issues such as recruitment, retention, contracts, studio policies, income tax, and maintaining consistent monthly income will be discussed in-depth.

MUS 321  Choral Conducting  
Study of conducting techniques and choral literature. Prerequisite: MUS 220, 240.

MUS 322  Instrumental Conducting  
Techniques of conducting instrumental organizations and the study of instrumental literature. Prerequisite: MUS 220, 240.

MUS 324  Women’s Ensemble  
Open to all women by audition, which is held the weekend before and the first day of classes. This ensemble performs regular concerts covering a variety of styles and musical genres.

MUS 325  Men’s Ensemble  
Open to all men by audition. This ensemble performs regular concerts covering a variety of styles and genres. Members must also enroll in Concert Choir.

MUS 326  Showband  
Open to all students who qualify by audition. The Showband is a select group of students for the purpose of representing the music program and the school at college and community functions, including football games and other athletic events.

MUS 329  Developing Music Literacy in Children  
A progression to music literacy from singing and dancing to playing, identifying tonal and rhythmic patterns from known repertoire as building blocks for writing and reading music notation.

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 333  Music for the Classroom Teacher  
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 335  Recording Techniques  
An introduction to recording techniques using computer-based digital recording with standard software. This course will prepare students to produce demo recordings and include training in studio setup, signal flow, microphone placement, editing, plug-ins, and mixing. Open to all music majors or by permission of the instructor.

MUS 336  Jazz Improvisation I  
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  
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 351  Music Education Practicum, K-12  
Continuation of MUS 251. Students will gain more practical performing experience, but will also begin peer teaching in these areas. May be taken for repeated credit. Prerequisite: four semesters of MUS 251 or equivalent.
MUS 352 Music Education Practicum, K-12  
Credit 1 hour  
Culmination of the MUS 251 and 351 courses. Students will complete the remaining student learning outcomes introduced in MUS 251 and 351. Prerequisite: MUS 351 – students must have 4 or fewer remaining incomplete student learning outcomes in order to register.

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 399 Solo Half-Recital  
No Credit  
A 25- to 30-minute solo performance. The performing student must have a cumulative GPA of 3.00 on his/her major instrument or voice (MUS 115/215/315) in order to present the recital. Additionally, the student must receive the recommendation of the private instructor and the collective music faculty at a pre-recital hearing held at least three weeks prior to the scheduled recital date. Must be taken concurrently with MUS 315. Prerequisite: at least one prior semester of MUS 315.

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 Private Music Instruction  
Credit 1-2 hours  
Individual instruction in piano, organ, voice, percussion, brass instruments, woodwind instruments, and stringed instruments. Student must enroll simultaneously in MUS 101. Prerequisite: MUS 399.

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 3 hours  
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. Prerequisite: MUS 321 or MUS 322.

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.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 426</td>
<td>Music History I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey of the development of musical style from Antiquity to the Baroque Period through analysis, listening, reading, and writing.</td>
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</tr>
<tr>
<td>MUS 427</td>
<td>Music History II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Survey of the development of musical style from the Classical Period to the late Romantic Period through score analysis, listening, reading, and writing.</td>
<td></td>
</tr>
<tr>
<td>MUS 428</td>
<td>Music of the Twentieth Century</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Examination of the techniques of music composition in the 20th Century from a historical perspective, considering the cultural and social factors that influenced composers. The course will explore atonality, polytonality, Neoclassicism, serialism, experimental music, minimalism, electronic music, and spectral music. Prerequisite: MUS 132.</td>
<td></td>
</tr>
<tr>
<td>MUS 430</td>
<td>Topics in Music</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>Examines a special topic in music. Topics vary from semester to semester. May be repeated.</td>
<td></td>
</tr>
<tr>
<td>MUS 431a</td>
<td>Elementary Music Endorsement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An instructional methods course in the major field of content specialization required of elementary and K-12 education majors pursuing content area endorsement in K-8 Music and K-12 Music.</td>
<td></td>
</tr>
<tr>
<td>MUS 431b</td>
<td>Secondary Music Endorsement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An instructional methods course in the major field of content specialization required of secondary education majors pursuing content area endorsement in K-12 Music.</td>
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</tr>
<tr>
<td>MUS 433</td>
<td>Vocal Techniques</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The study of the vocal techniques of phonation, respiration, resonation, and articulation.</td>
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</tr>
<tr>
<td>MUS 434</td>
<td>Instrumental Techniques</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Organization and administration of the instrumental music program in public schools, including materials, methods, organization, public performances, and festivals. Requires permission of instructor.</td>
<td></td>
</tr>
<tr>
<td>MUS 435</td>
<td>History of Jazz</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td>MUS 439</td>
<td>Seminar in Music</td>
<td>1-3</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>MUS 499</td>
<td>Solo Full Recital</td>
<td>No Credit</td>
</tr>
<tr>
<td></td>
<td>A 45 to 55 minute solo performance. The performing student must have a cumulative GPA of 3.00 on his/her major instrument or voice (MUS 115/215/315/415) in order to present the recital. Additionally, the student must receive the recommendation of the private instructor and the collective music faculty at a pre-recital hearing held at least three weeks prior to the scheduled recital date. Must be taken concurrently with MUS 415. Prerequisite: at least one prior semester of MUS 415.</td>
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</tbody>
</table>

### PHILOSOPHY

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 100</td>
<td>Reading and Writing Philosophy</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Core issues in philosophy with a focus on the development of reading and writing skills. Must be taken concurrently with ENG 111 or READ 125.</td>
<td></td>
</tr>
<tr>
<td>PHIL 231</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A study of traditional and contemporary approaches to major philosophical issues. Prerequisite: A minimal score of 19 on the ACT Reading Test (or equivalent reading test approved by the College) or a C in READ 125.</td>
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<tr>
<td>COURSE CODE</td>
<td>COURSE TITLE</td>
<td>CREDIT HOURS</td>
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<tr>
<td>PHIL 235</td>
<td>Classical Chinese Philosophy</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>A study on the beginnings of the rich philosophical tradition of China, with emphasis on Confucian and Taoist thinkers.</td>
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<tr>
<td>PHIL 333</td>
<td>Symbolic Logic</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>A study of methods for systematic, critical evaluations of assertions and arguments.</td>
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<tr>
<td>PHIL 400</td>
<td>Independent Study or Research</td>
<td>1-3 hours</td>
</tr>
<tr>
<td></td>
<td>Advanced study or research in a special field of philosophy. Permission of Instructor and Dean required.</td>
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</tr>
<tr>
<td>PHIL 432</td>
<td>Ethics</td>
<td>3 hours</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>PHIL 433</td>
<td>Biomedical Ethics</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>A philosophical study of ethical issues that arise within the practice of medicine and the biological sciences. Topics to be covered might include abortion, euthanasia, relationships with patients, ethics of research, or social funding of health care.</td>
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<tr>
<td>PHIL 435</td>
<td>Environmental Ethics</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>A philosophical study of ethical issues that involve the relationship between humans and their natural environment. Topics to be covered might include theories of nature, animal rights, pollution, consumption patterns, and multicultural perspectives.</td>
<td></td>
</tr>
</tbody>
</table>

**PHYSICS**

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>COURSE TITLE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 135</td>
<td>Physical Science</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>An integrated course in physical sciences including astronomy, earth science, geology, physics, and chemistry.</td>
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</tr>
<tr>
<td>PHYS 151</td>
<td>College Physics I</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>Principles of mechanics, sound, thermodynamics, and fluid mechanics. Concurrent enrollment in PHYS 151L required. Prerequisites: 2 years of high school algebra or MATH 135, 138 or 142, or consent of instructor.</td>
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</tr>
<tr>
<td>PHYS 151L</td>
<td>College Physics I Laboratory</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Laboratory exercises in College Physics I. Concurrent enrollment in PHYS 151L required.</td>
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</tr>
<tr>
<td>PHYS 152</td>
<td>College Physics II</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>PHYS 152L</td>
<td>College Physics II Laboratory</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Laboratory exercises in College Physics II. Concurrent enrollment in PHYS 152L required.</td>
<td></td>
</tr>
<tr>
<td>PHYS 230</td>
<td>Introduction to Physics</td>
<td>3 hours</td>
</tr>
<tr>
<td></td>
<td>Introduction to the concepts of Physics, including selected topics in mechanics, properties of matter, heat, sound, electricity &amp; 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.</td>
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<tr>
<td>PHYS 241</td>
<td>University Physics I</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>The principles of mechanics, heat and sound. Differential and integral calculus applied. Concurrent enrollment in PHYS 241L required. Prerequisite: MATH 138 or 151, or consent of instructor.</td>
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<tr>
<td>PHYS 241L</td>
<td>University Physics Laboratory I</td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Laboratory exercises in University Physics I. Concurrent enrollment in PHYS 241 required.</td>
<td></td>
</tr>
<tr>
<td>PHYS 242</td>
<td>University Physics II</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>Principles of magnetism, electricity, and optics. Differential and integral calculus applied. Concurrent enrollment in PHYS 242L required. Prerequisite: PHYS 241/241L.</td>
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</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

PHYS 242L University Physics Laboratory II
Laboratory exercises in University Physics II. Concurrent enrollment in PHYS 242 required.

PHYS 251 Statics
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
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
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
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
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
A laboratory oriented course intended to strengthen the physical science background of the elementary and middle grades teacher.

PHYS 333 Astronomy
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
Laboratory experience in astronomy. Held in the evening either outdoors or in the planetarium. Concurrent enrollment in PHYS 333 required.

PHYS 334 Meteorology
The physical behavior of the atmosphere including the causes of weather and the elements of forecasting.

PHYS 370a Modern Physics
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
Experiments dealing with modern physics.

PHYS 370d Scientific Computer Applications
A computer based laboratory designed to familiarize students with physical science related computer applications.

PHYS 370e Math for the Physical Sciences
The application of analytic geometry, calculus, vectors, and partial differential equations to the solutions of problems in the physical sciences. Prerequisite: MATH 138 or 151.

PHYS 390 Internship in Physics
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 1-2 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.

POLITICAL SCIENCE

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
This course includes analysis of influences on public opinion, influences of public opinion on the political process, and measurement of public opinion. Specific topics included are techniques of attitude change, the influence of the media, and demographic correlates of public opinion. Students will participate in a study measuring public opinion. 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 344  U.S. Political History in the 20th Century  Credit 3 hours
History of American politics and political movements between 1896 and 2001. Particularly focuses on how changes to an increasingly urban and internationally powerful country changed its political processes and values. Cross-listed as HIST 344.

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 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 434  Congress and the Presidency  Credit 3 hours
This course will examine the structures and processes of Congress and the Presidency, and how the two institutions interact with one another. Topics will include constituency and partisan influences, organizational structures, and decision-making processes in both branches of government. The course will highlight the interdependent and dynamic nature of inter-branch relations, with an emphasis on the evolving constitutional system of the United States.

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.

PSYC 131  General Psychology  Credit 3 hours
An overview of psychology, with introduction to perspectives and research findings in subfields which are part of psychology, including sensation and perception, motivation and emotion, learning and memory, thinking and intelligence, developmental psychology, abnormal psychology, and social psychology are also covered.

PSYC 160  Special Topics in Psychology  Credit 1-3 hours
Special topics of current interest in psychology are considered in depth. Students make take more than one special topics course for credit when topics have different course content.

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 234  Cognitive Psychology  Credit 3 hours
An introduction to the concepts, theories and research associated with cognitive psychology, including attention, memory and thinking. Prerequisite for psychology majors: PSYC 131.

PSYC 239  Introduction to Forensic Psychology  Credit 3 hours
This course will introduce research and theory in the field of psychology and its application to the legal system. Prerequisite for psychology majors/minors: PSYC 131.
PSYC 242  Introduction to Research Methods and Statistics  
Credit 3 hours  
An introduction to the concepts and procedures of research methods and statistics with an emphasis on applications and research in behavioral sciences. Hands-on activities in research methods are included. Prerequisite for psychology majors: PSYC 131.

PSYC 331  Social Psychology  
Credit 3 hours  
Scientific study of social influence on human thought and behavior. 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 for psychology majors: PSYC 131.

PSYC 332  Child Psychology  
Credit 3 hours  
Introduction to the principles of physical, cognitive, linguistic, and social development in children. Prerequisite for psychology majors: 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 for psychology majors: 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 for psychology majors: PSYC 131.

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 Education, Human Performance, Counseling, Psychology and Social Work.

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 for psychology majors: 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 for psychology majors: PSYC 131.

PSYC 432  Research Design in Psychology  
Credit 3 hours  
Advanced research design 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 for psychology majors: PSYC 131 and PSYC 242.

PSYC 433  Abnormal Psychology  
Credit 3 hours  
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 for psychology majors: PSYC 131.
### PSYC 434  Organizational Psychology  
Credit 3 hours  
Examines work-group behavior, developing individuals in organizations, appropriate supervisory behavior, intergroup relations, and managing change within organizations. Explored from both an individual perspective and an organizational perspective, clarifying major theories and their applications. Prerequisite for psychology majors: PSYC 131.

### PSYC 435  Theories of Personality  
Credit 3 hours  
Major theoretical orientations and research findings in personality psychology. Prerequisite for psychology majors: PSYC 131.

### PSYC 438  Advanced Behavioral Statistics  
Credit 3 hours  
Computational and graphical techniques in 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. Course will also be include an introduction to statistical software and multivariate methods. Prerequisite: PSYC 242.

### PSYC 442  Modern and Historical Psychological Perspectives  
Credit 3 hours  
An examination of the development of psychology from early concepts to its present status, including historical roots within the major schools of psychology, and relationships to other disciplines. Consideration is given to career paths for the psychology major. Prerequisite for psychology majors: PSYC 131.

### PSYC 449  Advanced Forensic Psychology  
Credit 3 hours  
An in-depth look at the promises and problems of forensic psychology, including the application of psychological research, methods, theory, and practice as it applies to the legal system. Prerequisite for psychology majors/minors: PSYC 131.

### READING

#### READ 125  College Reading Strategies  
Credit 3 hours  
This course is designed to help students build critical reading skills in comprehension, vocabulary advancement, visual aid interpretation, note taking, and test taking strategies necessary for academic success. Students must pass the course with a C or better and pass the eCompass Reading Assessment with a score of 80 or higher to be eligible to enroll in General Education required English and Humanities courses.”

#### READ 400  Special Topics in Reading  
Credit 1-3 hours  
Recent trends and issues in the field of reading.

#### READ 430  Reading and Writing in the Middle and Secondary Schools  
Credit 3 hours  
The nature of reading, pertinent research in the field, reading and writing as applicable to the middle and secondary reading curriculum, management of the middle and secondary reading and writing programs, application of reading and writing 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 431  Improvement of Instruction in Reading  
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. (Also offered at the graduate level READ 531)

### SOCIAL SCIENCE

#### SS 323  Law and the American Society  
Credit 3 hours  
Nature, functions, and limits of law and its impact on economic, political, and social institutions.
SS 390 Internship in Social Science  Credit 1-12 hours
Provides practical experience in social science in a social or governmental agency. Open to upper division students majoring in one of the social sciences. Interested students should contact the Internship and Career Services office to secure application materials. Application should be made prior to the semester the internship will be started. The amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant, and the work hours.

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

SS 430 Topics in Social Science  Credit 1-3 hours
Special topics in Social Science. May be repeated with a change of emphasis.

SS 436 Seminar in Social Science  Credit 1-6 hours
Offered in any of the Social Science disciplines. Designed to meet the specific needs of a group of students, analogous to the way in which Independent Study or Research is designed to meet the needs of a specific student. Permission of the Instructor is required.

SOCIAL WORK

SW 230 Topics in Social Work  Credit 1-3 hours
Special topics in Social Work. May be repeated with a change of emphasis.

SW 231 Professional Social Work  Credit 3 hours

SW 251 Human Behavior in the Social Environment I  Credit 3 hours
Examines theories of human development from prenatal to old age using a multidimensional, multicultural perspective that includes bio-physical, psychological, social, economic, and spiritual. Students apply developmental knowledge to understand person and environment and demonstrate introductory level practice behaviors in observation and interviewing.

SW 252 Human Behavior in the Social Environment II  Credit 3 hours
Examines theories and perspectives on human behavior in organizations and communities, including political-economic motivations, expectation sets, joining behaviors in the rural context. Competencies for dealing with power differentials, negotiation and coalition building are addressed. Issues associated with race/ethnicity, minority status, disabilities, and economic status involving vulnerable populations or at-risk population are emphasized. Students apply developmental knowledge and multidimensional perspectives through self-reflection, observations, interviews, and written analyses. Prerequisite SW 251.

SW 271 Social Welfare History and Service Delivery Systems  Credit 3 hours
Examines the developmental history of social welfare with a focus on political, social, cultural ideologies and systems during periods in European and American history. Explores the context for the development of social programs and the treatment of various out-groups, including persons considered poor, developmentally disabled, mentally retarded, ethnic and racial minorities, women, disabled, children, gay men and lesbian women, and religious minorities within the international community. Students analyze policy implementation of local social service delivery systems using a descriptive model of policy analysis. Prerequisite: SW 231, 251, 252 or permission of instruction.

SW 330 Diversity in the Rural Environment  Credit 4 hours
Examines practice competencies needed for generalist social work practice in the context of the rural setting. Social issues (poverty, isolation, transportation, and housing) and theories related to the life experience of African
Americans, Native Americans, Asian Americans, and Hispanic Americans. Explores cultures and heritages of these
groups along with other social groups such as women and sexual minorities in the rural context. Discusses factors of
service provision with emphasis on capacity building in rural communities and issues of accommodation,
acculturation, and assimilation. Prerequisite: Sophomore standing.

SW 331 Services to Children and Families Credit 3 hours
Needs of children and families and services appropriate to satisfy these needs. Focuses on difficulties, strategies
for intervention based upon a multi-cultural strengths perspective and rural practice context. Social Services for
children and families are identified. Practice behaviors for legal and protective intervention, court process, and a
variety of treatment interventions are explored. Field trips and/or agency guest lecturers provide an opportunity for
on-site observation.

SW 332 Services to Elderly and Differently Abled Credit 2 hours
Practice behaviors and competencies of generalist social work practice with the geriatric population are
addressed. Needs of the elderly and the physically and mentally differently abled are explored. Intervention and
advocacy on behalf of these vulnerable populations is emphasized. Current services and alternatives will be
considered. Rural context, myths and values will be discussed along with specific treatment modalities.

SW 338 Cross Cultural Practice Skills Credit 3 hours
Explores the practice skills and cultural competencies necessary to practice Social Work with peoples of color,
specifically Native Americans, African Americans, Hispanic Americans, and Asian Americans. Examines the
historical and regional context of social service interventions, current areas of need, and skills and competencies
required to provide Social Work interventions within a cross-cultural setting. Prerequisite: SW 271.

SW 339 Alcohol and Substance Abuse Credit 3 hours
Examines the current state of knowledge associated with alcohol and substance use, abuse, and dependency,
including the physical and pharmacological effects on the human body. Explores Social Work roles and values
related to assessment and interventions with substance abuse issues in the context of individuals, families,
organizations, and communities. Focus includes alcohol use, alcohol abuse, alcohol dependence, the disease concept,
social issues, other chemicals abuse, and dual diagnosis of substances and mental illness. Ethno cultural factors in
substance dependency are examined.

SW 340 Mental Health Social Work Credit 3 hours
Examines the current state of knowledge in the field of mental health and mental health treatment, including
theories of mental health and health illness and concepts of: case management, determination of need, mental health
service systems, scope and variety of intervention methods, role of the interdisciplinary team, evaluation, and impact
of discrimination.

SW 343 Research Methods Credit 3 hours
Introduces qualitative and quantitative world views, basic research methods, including developing single subject,
survey, and grounded theory research designs to evaluate practice. Students develop competencies with critiques of
research articles and application of existing Social Work knowledge and empirical research to design multi-level
interventions and evaluation methods with individuals, families, groups, communities, and organizations. Students
will demonstrate beginning generalist competency through individual and group projects. Professional Social Work
Program course. Prerequisite: PSYC 238 or 242 or MATH 232; SW 231, 251, 252, 271; Co-requisite: SW 343L.

SW 343L Research Methods Lab Credit 1 hour
Students apply a knowledge of SPSS and Qualitative software involving data entry and data analysis on data
generated from group projects developed in SW 343 Social Work Research Methods. Students complete
developmental assignments on use of SPSS and qualitative analysis. Professional Social Work Program course. Co-
requisite: SW 343.

SW 371 International Social Welfare Credit 3 hours
Examines globalization, salient global issues, development of institutions of social welfare, and their impact on
social well-being and human need. The role of international organizations, sustainable agriculture, economic
development, alternate economic structures, political systems, and policies in third world nations are examined.
Emphasis is placed on the relationship between human rights, social and distributive justice and social intervention.
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. Prerequisite: 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 431  Generalist Methods Lab  Credit 1 hour
Students acquire knowledge and practice behavior skill in professional use of self in various interpersonal situations, including professional interviewing, therapeutic relationships, and personal assertiveness. Students record role plays with peer evaluations, individually complete programmed learning exercises to demonstrate engagement, assessment, intervention planning with clients and evaluation of practice. Professional Social Work Program course. Prerequisite: SW 231, 251, 252, 271; Co-requisite: SW 432.

SW 432  Methods I: Individuals and Families  Credit 3 hours
Examines Social Work interventions with individuals and families based upon Social Work research and theory, particularly resilience and the strength’s perspective. Examines approaches to assessment, planning, implementation, and evaluation. Specific emphasis is given to Social Work practice behaviors and considerations of diversity when working with individuals and families. Professional Social Work Program course. Prerequisite: SW 231, 251, 252, 271; Co-requisite: SW 431.

SW 433  Methods II: Therapeutic and Task Groups  Credit 3 hours
Examines a broad range of groups, with emphasis on group theory, the nature and uses of therapeutic and task groups, including: group development, dynamics, facilitation skills, group assessments and outcome evaluation. Students demonstrate competencies, practice behaviors, and application of critical thinking, Social Work ethics in simulations and role plays with emphasis on assessment, design, and interventions with multi-cultural individuals, families, organizations and communities. Professional Social Work Program course. Prerequisites: SW 343 and 432.

SW 434  Policy Analysis and Advocacy  Credit 3 hours
Examines theories on the development of public social welfare policy in the United States and explores the mechanisms and methods that sustain discrimination and oppression within policy processes. Competencies for advocacy including power differentials, negotiation and coalition building are addressed. Examines historical, content, process, political-economic, comparative, and constructivist models of policy analysis and applies these models to national and global social welfare issues for at-risk populations. Students demonstrate competencies through a policy analysis of a national policy with relevance to the local rural context, recommend proposed changes, and identify strategies for changing social welfare policies and practices. Professional Social Work Program course. Co-requisite: SW 433.

SW 435  Methods III: Organizations and Communities  Credit 3 hours
Explores strategies and tactics for organizational and community change using a strength’s perspective with attention to changing barriers to out-group participation in society and with attention to building systems responsive to the physical, psychological, social and economic needs of minority populations. Students demonstrate competency in organizational and community assessments, identify change targets, propose strategies and tactics for creating change. Students participate in a significant community level project. Professional Social Work Program course. Co-requisite: SW 434.

SW 436  Forensic Social Work  Credit 3 hours
Examines the application of Social Work knowledge and skills to law and the justice system, specifically in working with adjudicated individuals in clinics, prisons, juvenile and adult services, diversion programs, corrections, court mandated treatment, and psychiatric hospitals. Explores perspectives on issues of responsibility and competence to stand trial as juveniles and adults.

SW 458  Methods: Integrative Seminar  Credit 2 hours
Based on case studies presented by the instructor and community professionals, students conduct multidimensional assessments, develop multi-level interventions, and propose evaluation methods using Social
Work empirical knowledge, existing research, and practice theories of individuals, families, groups, organizations, and communities. Issues associated with race/ethnicity, minority status, disabilities, and economic status involving vulnerable populations or at-risk population are emphasized. Professional Social Work Program course. Co-requisite: SW 435.

**SW 459 Pre-Field and Orientation**  
Credit 1 hour  
Examines ethical dilemmas and ethical decision making, Social Work Code of Ethics, professional behavior, organizational entry, use of supervision, and field instruction policies and procedures. Field instructors and students complete written learning agreements with identified tasks that permit measurement of student attainment of practice behaviors and competencies applied in agency settings. Students complete a 16 hour orientation to assigned field agency. Professional Social Work Program course. Co-requisite: SW 458.

**SW 463 Professional Seminar**  
Credit 2 hours  
Explores ethical issues and dilemmas and skills in collegial support and feedback through mutual problem-solving. Examines life long learning, job seeking, job interviewing, professional networking, state certification, state licensure and Social Work licensing boards, NASW membership, professional memberships, and graduate MSW applications. Students report progress on achievement of learning tasks and demonstrate use of empirical knowledge to guide practice based assessments and interventions. Professional Social Work Program course. Prerequisite: SW 459; Co-requisite: SW 464.

**SW 464 Social Work Field Practicum**  
Credit 5 - 10 hours  
Provides a structured educational experience in an approved social service agency with an approved field instructor based upon a written learning contract. Students complete a variety of learning tasks that demonstrate practice behaviors and competencies of a beginning generalist Social Work Professional. Students should enroll for 10 credit hours and expect to work 32-35 hours per week for the semester for a total of 450 hours. In special situations and with the approval of the Field Coordinator, a student may register for 5 credit hours in each of two consecutive spring semesters and expect to work 18 hours per week. May be repeated to a total of 10 credit hours. Professional Social Work Program course. Prerequisite: SW 459; Co-requisite: SW 463.

### SOCIOLOGY

**SOC 230 Society: Global Comparison**  
Credit 3 hours  
This course involves study and comparison of several societies including that of The United States. Specific areas of comparison include family structure, conflict resolution, economic activity, history and demography, education, and religion.

**SOC 231 Introduction to Sociology**  
Credit 3 hours  
An introductory survey of the field of Sociology, including major theories, contemporary, methods, examination of research and writing in subfields of Sociology, and participation in a class research project.

**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 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.

### SPECIAL EDUCATION

**SPED 230 Introduction to the Exceptional Learner**  
Credit 3 hours  
Provides an overview of the exceptionalities, their definitions, prevalence, etiology, characteristics, and related instructional needs and accommodations for special needs and exceptional populations. Emphasis is on current
educational methods and placements to understanding the impact of teaching practices and curriculum, considerations. Required of all Education Majors. Prerequisite: EDUC 131.

SPED 232  Interpersonal Communications Skills for Special Educators  Credit 3 hours
Involves the study and application of communication skills special education teachers may utilize in conferencing with parents, staff members, and other professionals concerning planning and implementing special education programs for infants, preschool, 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
Promotes the hands-on application of methods learned in accordance with teaching students with special needs at the preschool, elementary or middle grades level. Various techniques of instruction are emphasized in the design and implementation of individual and small group programs.

SPED 316s  Microteaching in Secondary Special Education  Credit 1 hour
Promotes the hands-on application of methods learned in accordance with teaching students with special needs at the secondary level (7-12). Various techniques of instruction are emphasized in the design and implementation of individual and small group programs.

SPED 332  Language and Learning Disorders  Credit 3 hours
Introductory course for undergraduate students on the subject of language and associated learning disorders. Provides students with an opportunity for integrating information from several content areas (e.g., language development, learning disorders, and anatomy) and applying that knowledge to a child presenting a language-based learning disorder.

SPED 334  Differentiated Instruction for Diverse Classrooms  Credit 2 hours
This course covers teaching strategies, laws, strategies and procedures for working with special needs students within a diverse and inclusive classroom environment. Students will participate in hands-on activities, identify key instructional strategies and accommodations for special needs students, and become familiar with laws and policies governing special education practices in today’s schools. This course is a required Education course for all students wishing to be teachers, and should be taken as part of the student’s junior year, prior to the Professional Year. Prerequisite: PSYC 231 and SPED 230.

SPED 335  Elementary/Middle School/Secondary Methods and Materials for Mild/Moderate Disabilities  Credit 4 hours
Instructional, curricular, and adaptive or assistive technological approaches to accommodate the academic, social, emotional, cognitive, linguistic, and physical needs of 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/middle grades/secondary students with mild/moderate disabilities.

SPED 337  Program Development, Implementation, and Management  Credit 3 hours
Development, implementation, and management of special education programs, which include individual education plans (IEP), individual family service plan (IFSP), and transition plans. This course will include (a) a background of laws leading up to IDEA, (b) a working knowledge of IDEA and related amendments, (c) hands-on experience in the formulation and development of IEP’s, IFSP’s, transition plans, and (d) techniques/strategies in adapting curriculum for students with special 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 conducted. 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 Special Education or Education observation and/or field experience requirements, or any required courses, and should not be done while the student is in their Professional Year.

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 412E/S Special Education Practices and Strategies  Credit 1 hour
This course covers teaching strategies, development of curriculum units and lesson planning, questioning skills and motivation techniques for teachers teaching within inclusive classroom environments. This course is taken as part of the Professional Semester and is part of a "Block" of courses that are taken in the same semester.

SPED 416  Clinical Experience in Appraisal of Exceptional Children  Credit 1 hour
Learning opportunities to develop the understanding of how assessment instruments and equipment is used in the screening of students. The screening can be used for academic achievement, development, assistive technology, and/or rehabilitation. The emphasis will be on the screening of students with special needs, but not exclusive to this purpose.

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  Special Topics in Special Education  Credit 1-3 hours
Development, implementation, and management of Inclusive Classrooms in the K-12 school environment. This course will include discussion and reflection on the following topics pertaining to Special Education: (a) Response to Intervention [RTI], (b) Inclusive Classroom Environments; (c) Federal Laws including IDEA; (d) Classroom Mgt and Inclusive Classroom Behavior Interventions; (e) Curriculum Adaptation, and (f) providing supportive services for all children including those who are “At-Risk”.

SPED 438  Consultation/Collaboration  Credit 3 hours
Consulting and collaborating skills will be developed for special educators working with parents, para-educators, and other professionals working with students with special needs. Emphasis will be given to formal and informal meetings & conferences in planning, developing, and implementing special education programs. This course will cover consultation/collaboration theory, group dynamics, the special educator as a consultant, the importance of consultation/collaboration in an inclusive setting, needs assessment research and staff development, and dealing with conflict.

THEATRE

TH 015  Theatre Practicum  Credit 1 hour
Participation in theatre department productions. Repeatable up to eight (8) hours.

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

TH 159  Technical Theatre  Credit 2 hours
Study of the technical elements of stagecraft. This includes construction techniques, theory of light and sound, and an introduction to theatrical drafting. Students will be taught the fundamentals of safely operating construction tools, lighting instruments, sound equipment, and other theatrical equipment. Students will be required to purchase supplies. Must be taken concurrently with TH 159L.

TH 159L  Technical Theatre Lab  Credit 1 hour
Laboratory experience. Must be taken concurrently with TH 159.

TH 222  Stage Make-Up  Credit 2 hours
Theory and techniques of theatrical make-up. In addition to practical application projects, students will develop research and morgues for make-up applications geared toward creating theatrical characters.

TH 226a  Metal Manufacturing Processes and Systems: Welding Processes  Credit 2 hours
Fundamentals of metal manufacturing processes, materials and
systems. Discussion and application focused on welding and cutting processes and materials. Special emphasis placed on GMAW, SMAW, GTAW, PAC, OAW and FGC.

TH 226b  Metal Manufacturing Processes and Systems: Machining  Credit 1 hour
Fundamentals of metal manufacturing processes, materials and systems. Discussion and application focused on machining processes and materials. Special emphasis on lathe and mill practices as well as newer developments in industry technology.

TH 226c  Metal Manufacturing Processes and Systems: Foundry and Forging  Credit 1 hour
Fundamentals of metal manufacturing processes, materials and systems. Discussion and application focused on forging and foundry processes and materials. Special emphasis on sand and investment casting as well as gas and coal forge work.

TH 234  Audition Techniques and Practices  Credit 2 hours
Intensive practicum on the selection, preparation and presentation of audition materials. This will include headshots and resumes, music selection, monologue selection, and presentation.

TH 235  Elements of Theatre  Credit 3 hours
Overview of history and techniques employed in theatrical production and criticism. Lecture, demonstration, participation in theatrical experiences, and attendance of theatrical performances.

TH 237  Beginning Directing  Credit 3 hours
Theory and practice of play direction, including blocking, analysis, organization, rehearsal, working with actors, and collaboration. Designed for theatre majors, minors, and language arts students. Prerequisites: TH 134 and/or permission of instructor.

TH 243  Introduction to Set and Light Design  Credit 2 hours
Introduction to the processes used to create a set or lighting design for the stage and the process of synthesizing a design into a theatrical production. Emphasis will be on working from a production team’s concept to create a design that will communicate the concept to an audience. Students will be required to purchase additional tools and supplies. Prerequisites: TH 159 and/or permission of the instructor. Must be taken concurrently with TH 243L.

TH 243L  Introduction to Set and Light Design Lab  Credit 1 hour
Laboratory experience. Must be taken concurrently with TH 243.

TH 245a  Construction Processes & Systems: Tools and Materials  Credit 1 hour
Fundamentals of construction including wood, metal, and masonry materials. Topics include hand and power tool selection and operation, safety and material usage. Offered concurrently with ART 245a.

TH 245b  Construction Processes & Systems: Techniques and Organizational Materials  Credit 1 hour
Fundamentals of construction including wood, metal, and masonry materials. Topics include the application of safe and appropriate building and construction techniques and the organization and scheduling of projects. Special emphasis on alternative and sustainable practices. Offered concurrently with ART 245b.

TH 245c  Construction Processes & Systems: Material Selection And Estimation  Credit 1 hour
Fundamentals of construction including wood, metal, and masonry materials. Topics include the determination of appropriate materials and the development of cost estimates for small to medium size construction projects. Introduction to MS Excel as an estimating program. Special emphasis on alternative and sustainable practices. Offered concurrently with ART 245c.

TH 300/400  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 the Instructor, Chair, and Dean is required.
TH 327  Fundamentals of Voice and Movement  
Process-oriented study in voice and movement fundamentals for the actor; includes work on mechanics of vocal production, IPA (International Phonetic Alphabet) Laban-based movement, and explorations of character development.

TH 334  Intermediate Acting  
Development of the actor through intensive scene study, genre and related techniques, and scene work. Prerequisites: TH 134 and/or permission of the Instructor.

TH 336  Theatre History I  
Study of the history of theatre and dramatic literature from its origins to the Eighteenth Century.

TH 337  Theatre History II  
Study of the history of theatre and dramatic literature from 1800 to the Twenty-First Century.

TH 339  Children’s Theatre Workshop  
Workshop geared toward the mounting and production of a performance for young audiences. Workshop participants will be responsible for the production and performance of a selected work. Activities include: rehearsal and characterization, set, costume design and construction, touring and setup, marketing and publicity, and theatre organization. Permission of Instructor required.

TH 359  Computer Applications for the Theatre  
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: Permission of the instructor.

TH 390  Internship in Theatre  
Provides practical experience in theatre at the Post Playhouse or other professional 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. Internship credits may be substituted for other required credit in Theatre at the discretion of the Theatre faculty.

TH 412  Senior Assessment Jury  
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 part of the final authentic assessment for exiting seniors in Theatre. Prerequisites: 2.5 cumulative GPA and consent of the Theatre faculty.

TH 429  Playscript Analysis  
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)  
Study of period styles of acting from Greek Classics and Elizabethan Tragedy to Restoration Comedy and Farce. Prerequisites: TH 134 and TH 334 and permission of the Instructor.

TH 435  Topics in Theatre  
Special topics in theatre. May be repeated with a change of emphasis. Permission of Instructor and Program Director required. Areas of emphasis may include stage combat, scene painting, and acting for the camera.

TH 437  Directing for the Stage  
Advanced study of the theories and techniques of stage direction. Student will direct a short play using alternative staging as final project. Prerequisites: TH 237 and permission of the Instructor and Program Director.
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.

WORLD LANGUAGE

WLAN 100  Conversational Foreign Language  Credit 3 hours
Introduction to foreign language and selected foreign-speaking cultures with emphasis on oral communication
through the development of listening and conversational skills. Some short readings may be included to facilitate
understanding of directions written in foreign language, and basic grammar will be included as necessary to facilitate
clarity in conversation. Repeatable for up to 6 credit hours in a single foreign language. May be repeated for another
six hours in a different foreign language.

WLAN 238  Study Abroad Program  Credit 3 hours
Intense exposure to a foreign language and to the culture of one of the countries in which it is spoken. This
intermediate course is only offered in conjunction with a residential experience in a foreign speaking country.

WLAN 400  Independent Study or Research  Credit 1-3 hours
Open to students who wish to do advanced work in a special field of foreign language. Conferences to be
arranged. Permission of Instructor and Dean is required.

WLAN 438  Advanced Summer Program Abroad  Credit 3 hours
Intense exposure to a foreign language and to the culture of one of the countries in which it is spoken. This
advanced course is only offered in conjunction with a residential experience in a foreign speaking country.
Repeatable for up to 6 credit hours in a single foreign language. May be repeated for another six hours in a different
foreign language.