

# Course Descriptions

## **Agricultural Economics 100: New Student Career Orientation (1 cr I)**

Prereq: First semester freshmen; major in agricultural economics or related discipline.

Academic success and development of leadership skills through involvement and activities on campus. Time management and study skills. Identify potential internship and career opportunities.

## **Agricultural Economics 141: Introduction to Economics of Agriculture (3 cr)**

The course consists of a study of the economic and social problems and institutions of agriculture. It is designed to develop analytical ability and a critical approach to thinking about these problems and to give the student a broader knowledge about the industry as a whole. The functions of the marketing institutions are explored.

Considerable attention is given to the nature of supply and demand of agricultural products, followed by a discussion of the agricultural policy problems of agriculture. The relationships between the farmer and the rural community, agricultural industry, and the general economy are discussed. This course will satisfy the economics requirement in the two-year program. There are no prerequisites for this course, with the exception that it is not recommended for students who have math entrance deficiencies, and it is designed for all freshmen in the College of Agriculture.

## **Agricultural Economics 201: Farm and Ranch Management (4 cr I, II)** Lec 4.

Prereq: AEON 141 or ECON 212. Various economic principles and business management concepts which are involved in the decision-making process when organizing and operating a farming/ranching operation. Includes production economics, record keeping systems, financial budgets and analysis, crop and livestock enterprise analysis, leasing arrangements, depreciation, farm business organizations, farm investment analysis, pasture/rangeland management, and production efficiency indicators.

## **Agricultural Engineering 100: Introduction to Biological Systems Engineering and Agricultural Engineering (1 cr I)**

Description of careers in biomedical, environmental, water resources, food and bioproducts, and agricultural engineering. The human, economic and environmental impacts of engineering in society. Communication, design, teamwork, and the role of ethics and professionalism in engineering work.

## **Agricultural Engineering 112: Engineering in Agricultural and Biological Systems (AGEN 112) (2 cr II)**

Lec 2.

Prereq: BSEN/AGEN 100. Introduction to the fields of biological systems and agricultural engineering. Problem solving techniques and procedures through the use of spreadsheets, symbolic processors, and graphical methods. Emphasis on problem/solution communications with topics and problems from agricultural and biological systems.

## **Agricultural Engineering 118: Engineering in Agricultural and Biological Systems (1 cr)**

Cross-listed with Biological Systems Engineering 112.

Introduction to the fields of biological systems and agricultural engineering. Problem solving techniques and procedures through the use of spreadsheets, symbolic processors, and graphical methods. Emphasis on problem/solution communications with topics and problems from agricultural and biological systems.

## **Agricultural Leadership, Education and Communication 102: Interpersonal Skills for Agricultural Leadership (3 cr)**

Introduction to the principles and practices of positive interpersonal relationships for agricultural students. An experiential approach, including field projects, will be utilized in testing and applying principles.

## **Agricultural Leadership, Education and Communication 134: Agricultural Education, Journalism and Leadership Careers (2 cr)**

An orientation course exploring the career opportunities available in the delivery system of agricultural education. Specific attention will focus on agribusiness, industry training, positions, secondary agriscience instruction, extension education, and international applications for agricultural education. Agricultural education majors should register for an additional hour of early field experience.

## **Agricultural Leadership, Education and Communication 202: Leadership Development in Small Groups and Teams (3 cr I, II)**

Lec, act. An introduction to leadership processes. Emphasis is placed on developing leadership skills for diverse groups. Classes are discussion and action oriented to simulate real leadership situations. A leader-shadowing experience is part of the course.

## **Agricultural Sciences 103: Introduction to Agriculture and Natural Resource Systems (3 cr)**

Cross-listed with Natural Resources 103.

Students will study agriculture and natural resource topics from the perspectives of the natural resource base, energy budget, the environment, and economic and societal aspects. Case studies will address food production and processing systems plus other selected agroecological systems for their economic viability, ecological soundness, social responsibility, and scientific appropriateness.

## **Agricultural Sciences 271: An Introduction to Computer Applications in Agriculture (3 cr)**

A study of computing and its application to agriculture. Students will learn the fundamentals of DOS, word processing, spreadsheets, database management, computer graphics, networks, computer communications, and elements of selecting appropriate hardware and software.

**Agronomy 131: Plant Science (3 cr)**

A study of the basic agronomic principles involved in the growth, structure, and soil plant interactions with emphasis on ecological processes. Classification and identification of field crops, forages, and common weeds are studied. The influence of people and the environment on crop growth and the importance of crop production on world food production are explored.

**Agronomy 132: Plant Science Laboratory (1 cr I, II)**

Lab 2.

Prereq: AGRO 131 or parallel.

Botany of plants with emphasis on grasses and legumes. Identification of economically important plants and common weeds. Effects of light, temperature, and mineral nutrition on plants. Identification of growth stages in grasses and legumes. Calibrations of seeding, fertilizer, and chemical applicators.

**Agronomy 153: Soil Resources (4 cr)**

Cross-listed with Soil Science 153.

Prereq: High school chemistry or one semester college chemistry.

Emphasizes the basic characteristics of soils as they relate to plant growth. Consideration is also given to nonagricultural uses of soils and environmental considerations. The course is designed for freshman and sophomore students but would be appropriate also for upperclassmen having no previous formal instruction in soil science. Its purpose is to introduce the student to that part of the environment called the soil. Soil chemistry, physics, classification, mineralogy, biology, and fertility of soils are discussed. Soil management practices as they relate to the use and conservation of soils are introduced. Information gained in this course is basic to courses in irrigation management, land use planning, farm management, and crop production in all courses in soil science.

**Agronomy 201: Preparation for an Agronomic Career (2 cr)**

Cross-listed with Rangeland

Ecosystems and Soil Science 201.

Prereq: Sophomore standing, major in agronomy, range ecosystems, soil science, or permission.

Students in this course will complete a number of individual and group

activities to help them formulate ideas about their careers. They will develop skills and information bases that should help them to be more effective students and be better prepared for their post-college life. Emphasis in the activities will be on plant and soil sciences.

One credit is given for in-class work and one credit for work outside class.

**Air Force ROTC/Aerospace Studies 185: Foundation of the United States Air Force I (1 cr)**

Covers officership, communication skills, opportunities, and benefits in today's United States Air Force. A weekly one and one-half hour Leadership Lab consists of Air Force customs and courtesies, Air Force environment, and drill and ceremonies.

**Animal Science 100: Fundamentals of Animal Biology and Industry (4 cr)**

The uses of animals and animal products, the structure of the industry, as well as trends and current issues related to production and consumption of animal products, and careers related to animal science will be explored in this course.

**Animal Science 101: Introduction to Animal Sciences (1 cr I)**

Lab 2.

Survey of careers, internships, skills and information resources for students interested in the animal sciences.

**Animal Science 210: Animal Products (3 cr)**

Prereq: Animal Science 100.

This course will provide knowledge of edible animal products with particular emphasis on meat products from livestock and poultry. Course material will include all aspects of the meat industry from slaughter to consumption. Methods of slaughter and fabrication, conversion of muscle to meat, processing techniques, preservation and storage, and consumer related topics will be discussed and demonstrated.

**Anthropology 107: Individual and Society (3 cr)**

Relationship of individuals to society, examining the methods of the social sciences and uses them to examine the basis of individual behavior and how individuals

interact to form groups and social institutions. A broad appreciation of both the human condition and the social scientific approach to the study of human kind.

**Anthropology 110 (110C): Introduction to Anthropology (3 cr)**

An introduction to the study of society and culture, integrating the four major sub fields of anthropology: archaeology, cultural anthropology, linguistics, and physical anthropology.

**Anthropology 130 (130c): Anthropology of the Great Plains (3 cr)**

This course offers an introductory survey of the peoples and cultures who have lived in the Great Plains. It assumes no detailed knowledge of anthropological concepts and methods. North American and Euro American Plains life-styles from the Prehistoric past, early historic, and modern periods are all treated. Emphasis is placed on the ways different people used and adapted to the Plains. Common themes and artifacts of Plains people are given special treatment.

**Anthropology 170: Introduction to Great Plains Studies (3 cr)**

(Fall semester only)

Cross-listed with Geography, Great Plains Studies, Natural Resources, Sociology 170.

*Required for Great Plains Studies majors and minors.*

An interdisciplinary introductory course, this will include the study of the natural environment, social environment, human heritage, arts, and humanities of the Great Plains.

**Anthropology 212: Introduction to Cultural Anthropology (3 cr)**

Cross-listed with Ethnic Studies 212.

Introduction to ethnology and its sub fields. Standard topics, problems, and theories considered in ethnology, social anthropology, culture and personality, and applied anthropology.

**Anthropology 232: Introduction to Prehistory (3 cr)**

Introduction to what archaeologists do and what they have learned about human prehistory. The first half of the course emphasizes the methods archaeologists use to study the past. The second half traces the record of

human developments up to the rise of the cities.

**Anthropology 242: Introduction to Physical Anthropology (3 cr)**

[IS]

Prereq: Parallel ANTH 242L

The scope and objectives of physical anthropology, the primate life cycle, human biology, fossil man, contemporary races, techniques of anthropometry.

**Anthropology 252: Archaeology of World Civilizations (3 cr)**

Introduction to complex societies, called civilizations, in both the Old and the New Worlds.

Anthropological theories and models dealing with the evolution of cultural complexity and review of archaeological data from specific regions, e.g. Near East, Far East, Mediterranean, Europe, Mesoamerica, Peru, etc.

**Architecture 106: Introduction to Design (3 cr)**

Cross-listed with Interior Design 106.

Investigation of environmental problems. Theory and practice of environmental design and the forces influencing its development. Architecture, planning and construction as environmental disciplines.

**Architecture 140A: Visual Literacy Lab Analysis/Composition (2 cr)**

Cross-listed with Art Theory & Practice, Interior Design, and Textiles, Clothing, & Design 140A. Prereq: Admission to the College of Architecture.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on principles of 2-D and 3-D design, drafting and sketching, developing spatial awareness, and critical thinking.

**Architecture 140B: Visual Literacy Lab: Perceptual Drawing (2 cr)**

Cross-listed with Art Theory & Practice, Interior Design, and Textiles, Clothing, & Design 140A. Prereq: Admission to the College of Architecture.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on the perception of edges, spaces,

relationships, form, light, and shadow, and critical thinking.

**Architecture 141A: Visual Literacy Lab Color (2 cr)**

Cross-listed with Art Theory & Practice, Interior Design, and Textiles, Clothing, & Design 141A.

Prereq: Admission to the College of Architecture.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on value/hue sequencing, use of color in 2-D composition, and impact on psychological/emotional information.

**Architecture 141B: Visual Literacy Lab Speculative Drawing (2 cr)**

Cross-listed with Art Theory & Practice, Interior Design, and Textiles, Clothing, & Design 141B.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on value/hue sequencing, use of color in 2-D composition, and impact on psychological/emotional information.

**Architecture 143: Visual Literacy: Art & Design (2 cr)**

Cross-listed with Art Theory & Practice, Interior Design, and Textiles, Clothing, & Design 143.

Prereq: Admission to the College of Architecture.

Lecture-style introduction to issues in visual literacy as they relate to art and design. Includes terminology and examination of current critical theory regarding visual literacy for use in later design courses and the understanding of contemporary culture.

**Architecture 223: Computer Applications in Architectural and Interior Design I (3 cr)**

Cross-listed with Interior Design 223.

Prereq: Admission to the College of Architecture.

Basic principles and concepts of applications of computer technology to architectural and interior design. Develops fundamental knowledge and skills to make effective use of computer technology to aid investigation in design studios.

**Army ROTC/Military Science 111: Foundations of Officer-ship (1 cr)**

This nonobligatory introductory course acquaints the student with the military and its role in society, with the Army ROTC program and objectives, and with officership as a profession. The nonobligatory leadership laboratory adjunct to the classroom work provides challenging, rewarding, and practical activity in military skill development. The student develops personal confidence while learning the importance of teamwork in task accomplishment. Students choose from a variety of activities, such as rappelling, orienteering, marksmanship, land navigation, personal defense activities, military weapons, military drill, first aid, cardiopulmonary resuscitation, and survival swimming.

**Art-Ceramics 131. Introduction to Ceramics (3 cr)**

*Credit will not count toward the major in art.*

**Note: Special lab fee required.**

Introduction to the materials, techniques and processes involved in hand-building with clay. Insight into aesthetic issues of concern to the contemporary artist.

**Art-Drawing 101: Beginning Drawing I (DRAW) (3 cr)**

**Note: Special lab fee required.**

Fundamental principles of drawing and perspective based on observation and imagination.

**Art History 101: Introduction to Art History & Criticism I (3 cr)**

**Note: Special fee required.**

A survey of the history of art from the earliest times to the end of the medieval period. The purpose of this course is to introduce the student to the subject of the history of art. The main part of the course is spent in a study of the more important styles in the history of art in the tradition of Western civilization from the earliest times through the medieval period or to about the year 1400. The course is designed for the general student; for the student intending to specialize in art, it serves as preparation for a later, more detailed study of the art of particular periods. The works of the masters are studied against the cultural background of the period in which they were created so that they can be understood in their uniqueness. Special problems of general relevance in the history of art

are usually selected for detailed consideration.

**Art History 102: Introduction to Art History & Criticism II (3 cr)**  
*Note: Special fee required.*

This course, although it has no prerequisite, is a continuation of Art 101 and advances the study of the important styles in the history of Western art from the early Renaissance through modern times, that is, from about the year 1400 onward.

**Art-Photography (PHOT) 161: Beginning Photography I (3 cr)**

(Summer only)

*Credit in this course will not count toward the major in art.*

*Note: Special lab fee required.*

This course presents photography as a fine arts medium. There is instruction in use of both camera and darkroom, with emphasis on using these tools to explore art concepts. Students are expected to develop an awareness of photography as a medium of personal expression. The course consists of a series of visual problems through which students investigate formal aspects of photographic seeing. In both lecture and critique sessions, students are encouraged to develop their sensitivity to form and to grow towards an awareness of personal direction. This course is intended to present the challenge of a genuine art experience to those whose major course of study is in some other area.

**Art – Theory & Practice 140A: Visual Literacy Lab Analysis/Composition (2 cr)**

Cross-listed with Architecture, Interior Design, and Textiles, Clothing, and Design 140A.  
Prereq: Art major or candidate for teaching endorsement in art. Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on principles of 2-D and 3-D design, drafting and sketching, developing spatial awareness, and critical thinking.

**Art – Theory & Practice 140B: Visual Literacy Lab Perceptual Drawing (2 cr)**

Cross-listed with Architecture, Interior Design, and Textiles, Clothing, and Design 140B.

Prereq: Art major or candidate for teaching endorsement in art. Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on the perception of edges, spaces, relationships, form, light, and shadow, and critical thinking.

**Art – Theory & Practice 141A: Visual Literacy Lab Color (2 cr)**

Cross-listed with Architecture, Interior Design, and Textiles, Clothing, and Design 141A.  
Prereq: Art major or candidate for teaching endorsement in art. Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on value/hue sequencing, use of color in 2-D composition, and impact on psychological/emotional information.

**Art – Theory & Practice 141B: Visual Literacy Lab Speculative Drawing (2 cr)**

Cross-listed with Architecture, Interior Design, and Textiles, Clothing, and Design 141B.  
Prereq: Art major or candidate for teaching endorsement in art. Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on value/hue sequencing, use of color in 2-D composition, and impact on psychological/emotional information.

**Art – Theory & Practice 143: Visual Literacy: Art & Design (2 cr)**

Cross-listed with Architecture, Interior Design, and Textiles, Clothing, and Design 143.  
Prereq: Art major or candidate for teaching endorsement in art. Lecture-style introduction to issues in visual literacy as they relate to art and design. Includes terminology and examination of current critical theory regarding visual literacy for use in later design courses and the understanding of contemporary culture.

**Astronomy 103: Descriptive Astronomy (3 cr) Lec 3.**

*Elementary for non-science majors.* Approach is essentially non-mathematical. Survey of the nature and motions of the planets, the sun, the stars, and their lives, galaxies, and

the structure of the universe. Black holes, pulsars, quasars, and other objects of special interest included.

**Astronomy 113: Selected Topics in Astronomy (3 cr)**

Lec 3.

Prereq: ASTR 103 or permission. A nonmathematical continuation and extension of ASTR 103, designed for students who would like a more detailed look at specific areas in astronomy. Possible topics: astronomy and relativity; life in the universe; pulsars, quasars, and black holes; evolution of galaxies, origin of the universe.

**Athletic Training 145: Introduction to Athletic Training (3 cr)**

Prereq: Open to freshmen and sophomores only. Introduction to the preparation and work of the certified athletic trainer and to the profession and professional expectations and requirements. This course is intended as an introduction to the career field of athletic training, as well as the athletic training education program at the University of Nebraska, so that the students can make an informed decision as to whether they would like to pursue athletic training as a career.

**Biochemistry 101: Career Opportunities in Biochemistry (1 cr)**

Prereq: Interest in becoming biochemistry major; open to freshmen, sophomores, and juniors only. Introduction to the field of biochemistry and to the diverse career opportunities in both academia and professional fields. Individual faculty members will explain their research programs and potential opportunities in their laboratories for undergraduate research. Students will have opportunities to participate in discussion with invited professionals from health related areas and industry to gain first hand knowledge of the merits and demerits of these careers. In addition, students will get to know and interact with the Undergraduate Academic Advisor in Biochemistry on a regular basis.

**Biological Sciences 101: General Biology (3 cr)**

Prereq: High school chemistry or equivalent strongly recommended. Parallel Biological Sciences 101L required.

This is an introductory course dealing with major themes and concepts in biology, including the structure, functions and interactions of organisms at the molecular, cellular and individual levels of organization.

**Biological Sciences 101L: General Biology Lab (1 cr)**

Prereq: Parallel registration in Biological Sciences 101.

**Note: Special lab fee of \$10.00 required.**

Laboratory exercises and experiments that complement material covered in Biological Sciences 101.

**Biological Sciences 102: Cell Structure and Function (4 cr)**

Prereq: High school chemistry. *Biological Sciences 102 is intended for biology majors and minors.*

General introduction to the chemistry of life, cellular organelles, metabolism and reproduction, the structure and expression of DNA and an introduction to patterns of inheritance.

**Biological Sciences 103: Organismic Biology (4 cr)**

*Biological Sciences 103 is intended for biology majors and minors.*

A study of the nature of diversity among living organisms, including morphology of numerous groups of organisms, axonomic schemes and their underlying assumptions, phyletics, biogeography and ecological distribution of species.

**Biological Sciences 109: General Botany (4 cr)**

Prereq: Biological Sciences 101 and 101L or equivalent.

**Note: Special lab fee of \$10.00 required.**

This course is an introduction to the plant kingdom and to plants as biological organisms. It includes study of the structure and function of cells, tissues and organs, emphasizing seed plants, as well as important processes and concepts of classification, inheritance, evolution and ecology.

**Biological Sciences 111: The Biology of Microorganisms (4 cr)**

(Spring semester only)  
Lec 3, lab 3.

Prereq: BIOS 101 and 101L or equivalent; open to freshmen and sophomores; juniors and seniors by permission only.

Comparative study of microorganisms, principles, and applications.

**Biological Sciences 112: Introduction to Zoology (3 cr)**

Prereq: Biological Sciences 101 and 101L or equivalent; parallel Biological Sciences 112L.

This course is a survey of the major groups of animals, emphasizing broad principles. It focuses on the evolution, distribution and current importance of those groups.

**Biological Sciences 112L: Introduction to Zoology Lab (3 cr)**

Prereq: Biological Sciences 101 and 101L or equivalent; parallel Biological Sciences 112.

**Note: Special lab fee of \$10.00 required.**

Laboratory exercises and experiments that complement material covered in BIOS 112.

**Biological Sciences 115: Insect Biology (3 cr)**

Cross-listed with Entomology 115. Students are introduced to the discipline of entomology through a survey of general insect biology, emphasizing insect structure, function, development, and habits. Harmful and beneficial insects, insecticide usage, and aspects of applied entomology are surveyed. Two lectures and one two-hour laboratory per week.

**Biological Sciences 116: Insect Identification (1 cr)**

Cross-listed with Entomology 116. Students are introduced to the discipline of entomology through a survey of general insect biology, emphasizing insect structure, function, development, and habits. Harmful and beneficial insects, insecticide usage, and aspects of applied entomology are surveyed. The laboratory stresses the recognition and identification of insects. Two lectures and one two-hour laboratory per week.

**Biological Sciences 150: Introduction to Dentistry and Dental Hygiene (1 cr)**

(Fall semester only)

*Will not count in major.*

Interest in dentistry, dental hygiene, or other health professions, as a career. This course will introduce the student to the professions of dentistry and dental hygiene. It will include lessons in terminology, ethics, anatomy, dental specialties, and clinical experience.

**Biological Systems Engineering 100: Introduction to Biological Systems Engineering and Agricultural Engineering (1 cr I)**

Description of careers in biomedical, environmental, water resources, food and bioproducts, and agricultural engineering. The human, economic and environmental impacts of engineering in society.

Communication, design, teamwork, and the role of ethics and professionalism in engineering work.

**Biological Systems Engineering 112: Intro to Problem Solving in Agricultural and Biological Systems Engineering (3 cr)**

Cross-listed with Agricultural Engineering 112.

Introduction to the fields of biological systems and agricultural engineering. Problem solving techniques and procedures through the use of spreadsheets, symbolic processors, and graphical methods. Emphasis on problem/solution communications with topics and problems from agricultural and biological systems.

**Biometry 201: Introduction to Biometry (3 cr II)**

Lec 3.

Prereq: Mathematics 100 and 101; or 102.

Wide scope of topics in the practical application of biometry in agriculture and biology covering collection and organization of data; normal and binomial distributions; elementary probability, regression and correlation; and analysis of variance.

**Business 097: Introduction to Business Administration (0 cr) (Fall semester only)**

*This course is taken for 0 credit hours as a Pass/No Pass option.*

This course will be of special interest to students who are unsure about

their major and the opportunities available through each major. Guest speakers come in each week and talk about their major, requirements and opportunities for employment following graduation. This course is taken for NO CREDIT and is a mini course, which will only meet for the first 7 weeks of the semester.

**Business Administration 101:  
Business Leadership Development  
(1 cr)**

Prereq: Freshman standing; a major in the College of Business Administration.

*Pass/No Pass only.*

Concepts and principles of leadership development and their relationship of the various disciplines within business, the college, the university, the community, and society in general.

**Business Administration 150:  
Business Computer Applications  
(1 cr)**

*Pass/No Pass only.*

*Demonstration of a minimum degree of computer proficiency using basic business software packages that are required to earn a degree from the College of Business Administration (CBA) or for a non-CBA major enrolled in a CBA course. Computer proficiency required to use basic business software packages.*

**Ceramics 131: Introduction to  
Ceramics (3 cr)**

*Credit will not count toward the major in art.*

Introduction to the materials, techniques, and processes involved in hand-building with clay. Insight into aesthetic issues of concern to the contemporary artist.

**Chemistry 105: Chemistry in  
Context I (4 cr)**

[IS]

Lec 3, lab 3, rct 1.

Prereq: MATH 102, or placement into MATH 103 or above.

*Credit toward the degree may be earned in only one of: CHEM 105, 109, 111, 113, or 195. Students planning to take CHEM 251 and 252, or CHEM 261 and 262, should register for CHEM 109 and 110 or CHEM 113 and 114 (the general chemistry sequence). CHEM 105 is the first part of a two-semester sequence, along with CHEM 106, to constitute the "Chemistry in Context" series.*

The extraordinary chemistry of ordinary things. The chemical model of solids, liquids, gases, molecules, and salts. How these models are used to explore chemical aspects of biological, social, or economic situations.

**Chemistry 109: General Chemistry  
I (4 cr)**

[IS]

Lec 3, lab and quiz 4.

Prereq: 2 units high school mathematics including algebra and geometry. *Credit toward the degree may be earned in only one of: CHEM 105, 109, 111, 113, or 195.*

Introduction to principles of chemistry for students in technical and vocational areas which require chemical training for their major field. Includes states of matter and kinetic molecular theory, atomic theory and structure, chemical bonding and molecular structure, kinetics and equilibrium, acid-base and oxidation-reduction reactions.

**Chemistry 110: General Chemistry  
II (4 cr)**

Lec 3, lab and quiz 4.

Prereq: Chemistry 109.

**Note: Special nonrefundable lab fee.**

Breakage paid with N-Card only. This is the second semester of the two-semester Chemistry 109/110 sequence. Topics include more on energy exchange, kinetics, equilibrium chemistry, acid/base chemistry, solubility, electrochemistry, and perhaps, a little organic chemistry, biochemistry, and/or nuclear chemistry. We recommend a minimum grade of "C" in Chemistry 109 in order to have a reasonable chance of success in Chemistry 110.

**Chemistry 111: Chemistry for  
Engineering and Technology (4 cr)**

(Fall semester only)

Lec 3, lab and quiz 4.

Prereq: 3 units of high school mathematics including algebra and geometry and 1 unit each of high school physics and chemistry, or permission.

*Credit towards the degree may be earned in only one: CHEM 105, 109, 111, 113, or 195. Not open to chemical engineering majors.*

**Note: Special nonrefundable lab fee.**

Breakage paid with N-Card only. A highly accelerated full-year of chemistry covered in one semester. It

is designed for engineering majors (agricultural, civil, computer, electrical, industrial, mechanical) who have excellent and extensive backgrounds in science and mathematics. The topic coverage is mostly the same as in Chemistry 109 and 110.

**Chemistry 113: Fundamental  
Chemistry I (4 cr) (Fall semester  
only)**

Prereq: 3 units of high school mathematics including algebra and geometry, 1 unit of high school chemistry, and 1 unit high school physics.

*Credit towards the degree may be earned in only one: CHEM 105, 109, 111, 113, or 195.*

**Note: Special nonrefundable lab fee.**

Breakage paid with N-Card only.

This course is the first semester of a one-year sequence (Chemistry 113, 114, and 116; 9 credits) and is equivalent to the three semester sequence: Chemistry 109, 110, 221 (12 credits). It is intended for students with a strong science background and a professional interest in chemistry or related areas, e.g. biological and physical sciences and chemical engineering. Students prepared to major in chemistry, biochemistry, and chemical engineering will begin with this course sequence, which treats fundamental topics in chemistry in greater depth than in Chemistry 109. Atomic structure is used as a basis for interpreting the structure of molecules and the nature of the chemical bond. In turn, these concepts lead to a view of states of matter and their physical characteristics. The chemistry of selected elements is viewed in terms of formed and the demonstration of this analysis during performance for the class.

**Chemistry 114: Fundamental  
Chemistry II (3 cr)**

Lec 3, quiz 1.

Prereq: Chemistry 113.

Parallel: Chemistry 116.

**Note: Special nonrefundable lab fee.**

Breakage paid with NCard only.

This course introduces chemical kinetics, oxidation-reduction reactions and electrochemistry, ionic solution equilibria, thermodynamic concepts, and chemistry of selected elements.

**Chemistry 116: Quantitative Chemistry Laboratory (2 cr)**

Conf and lab 8.

Prereq: Chemistry 113.

Parallel: Chemistry 114.

**Note: Special nonrefundable lab fee.**

Breakage paid with N-Card only. Elementary quantitative laboratory instruction in analytical methods and preparations including titrimetry, gravimetry, separations, and use of pH meter and spectrophotometer, quantitative chemical analysis. Designed for students (including chemistry and chemical engineering) who wish to take advanced laboratory instruction in such courses as Chemistry 263, 264, 471/481, 472, 482, and 484. This course may not be substituted for Chemistry 221.

**Chemistry 131: The Science of Food (3 cr)**

Cross-listed with Food Science & Technology and Nutritional Science & Dietetics 131.

This course is designed as a basic and applied science, general liberal education course emphasizing general scientific concepts in biology, chemistry, and physics using food as a model. Students will learn what food is, from its chemical and nutritional perspectives, and the fate of food from when it leaves the farm to when it becomes a part of the individual. The course should assist students in making intelligent decisions about many food related controversial issues (e.g., food irradiation, food additives, health foods).

**Chemical Engineering 112: Intro to Chemical Engineering (3 cr)**

The chemical engineering profession, basic engineering calculations, chemical process measurements and calculations, underlying natural laws and relationships, properties of single compounds, properties of mixtures, design of equipment and unit operations, process flow sheets and systems analysis, material balances including those with chemical reaction, purge and recycle, sources of data.

**Child, Youth and Family 160: Human Development and the Family (3 cr)**

Emphasis in this course is on the personality of the individual as it is influenced by the family. Students study the development of the

individual from the prenatal period through the later years of life. A principal objective of the course is to give the students better understanding of the family life cycle. The ways in which individuals grow and behave are illustrated and clarified by means of readings, class discussions, real-life experiences, films, and observation of preschool children enrolled in the Child Development Laboratory. This course is offered on City and East campuses.

**Child, Youth and Family 280: Family Science (3 cr)**

An introduction to basic theoretical and empirical ideas emphasizing family systems, theories and family processes. This course will help students begin their study of the family ecosystem and the interactive nature among the child, family and society. It will include discussion of intergenerational processes, family development, family rules, resources, rituals and family communication.

**Civil Engineering 112: Introduction to Civil Engineering (1 cr)**

This course introduces civil engineering as a career by the use of case studies. Alternate approaches to engineering designs are illustrated by the use of engineering principles.

**Civil Engineering 221: Geometric Control Systems (2 cr)**

Prereq: Math 106.

This course introduces the theory and application of mensuration and geometric information processing in civil engineering. The measurement of distance, direction, elevation and location using mechanical, electronic and satellite systems is covered, along with collection of field data, error propagation, and elementary geometric databases for the design, construction, operation and control of civil works.

**Classics 116: Scientific Greek and Latin (2 cr)**

This course improves understanding and retention of scientific vocabulary (biological, anatomical, pathological, and pharmaceutical) through the study of word bases, prefixes, and suffixes and the rules for their combination. Since Greek and Latin form the linguistic reservoir from which new technical terms are coined, elements from both languages are covered.

**Classics 141: Spectacle and Entertainment in the Roman World (3cr)**

Lec 3

Introduction to ancient Rome. Mass spectacles such as drama, gladiatorial combat, and public executions.

**Classics 180: Classical Mythology (3 cr)**

A literary examination of the mythological themes of Greek and Roman civilization. The student will become acquainted with the stories and their use in later literature by reading the original sources in English translation. This course is recommended for a student's general education. It is indispensable for those interested in literature.

**Classics 182: Alpha Learning Community Freshman Seminar (3 cr)**

*Requires enrollment in the Alpha Learning Community Program. CLAS 183 is normally taken in the next term.*

Topic varies.

A look at how the private sphere of life among the ancient Greeks, Romans, Egyptians, and Israelites influenced their public actions and achievements. Through literature, art and archeology, the course will examine the social roles of men, women, children and slaves as well as educational and religious practices and sexual customs.

**Classics 183: Heroes, Harlots, and Helots (3 cr)**

Introduction to the society of the ancient Greeks and Romans through study of the family and domestic institutions.

**Classics 283: Epic Tales: The World's Heroes and Gods (3 cr)**

Prereq: Sophomore standing.

Survey of epics and their meaning, ranging from ancient epics to the Medieval and Renaissance epic literature including selected epics with their criticisms and influences.

**Communication Studies 109: Fundamentals of Human Communication (3 cr)**

This course is a general introduction to the many ways in which communication influences our lives, and seeks to develop awareness and skill in students' communication patterns. This course is taught using the Personalized System of

Instruction (PSI). The structure of PSI sections differs from most traditional University classes. Each of the eight units of instruction is separate and can be completed at the student's own pace. Thus students may stay on the prescribed schedule or complete the course faster than scheduled. Each unit has assigned reading supplemented with lectures, films, exercises, and other instructional aids. There is a strong emphasis on public speaking, but study of other facets and areas of communication make the course a general study of communication. Unit 1 explains the nature of communication; units 2 and 3 train students to be effective public speakers; unit 4 emphasizes listening and analyzing communication; unit 5 explains how language is developed and how it is used; unit 6 focuses on the nature and importance of nonverbal communication; unit 7 examines relational communication, focusing on theories of how relationships are formed and how communication can affect relationships; and unit 8 examines group communication. There are three review exams, a final comprehensive exam, and three speeches. Skills important in speech #1 are organization and the use of supporting materials; speech #2 adds research and delivery skills; and speech #3 adds persuasive skills.

**Communication Studies 200:  
Introduction to Communication  
Studies (3 cr)**

This course provides an introduction to theories of human communication. The course focuses on theories that apply to communication across all contexts, and more specifically to communication in interpersonal, small group, organizational, public or institutional settings.

**Communication Studies 205:  
Performance of Literature (3 cr)**  
(Fall semester only)

An introduction to the study of skills and theories in the performance of literature, including written analyses of the works per these principles. Principles of chemical equilibria including acid/base and solubility are introduced. The laboratory experience will show basic quantitative laboratory techniques, data collection, and interpretation. Procedures will include qualitative analysis of elements. During the first

two weeks of the semester, students who enroll in Chemistry 113 can easily transfer to Chemistry 109 which has a section meeting at the same time. However, there is not necessarily a Chemistry 113 meeting at the same time as each Chemistry 109 so transfer in the other direction is less easy.

**Communication Studies 209:  
Public Speaking (3 cr)**

Prereq: Sophomore standing.  
Detailed practice in composition and delivery of speeches leading to effective extemporaneous speaking. Critical analysis of contemporary speeches on vital public issues.

**Communication Studies 209H.  
Honors: Public Speaking [IS] (3 cr)**

Prereq: Good standing in the University Honors Program or by invitation.  
Detailed practice in composition and delivery of speeches leading to effective extemporaneous speaking. Critical analysis of contemporary speeches on vital public issues will culminate in a major research paper.

**Communication Studies 211.  
Intercultural Communication  
(ETHN 211) (3 cr)**

Exploration of culture as a dimension of all communicative activity. Communication between cultural groups in a variety of contexts, e.g. interpersonal relationships, groups, organizations, politics, and international relations.

**Communication Studies 212:  
Debate (3 cr)**

[IS]  
Prereq: Sophomore standing or permission.  
Principles of argumentation and debate. Practice in analysis, briefing, use of evidence, reasoning, detection of fallacies, refutation, and delivery of argument.

**Communication Studies 295:  
University  
Speech and Debate (1-2 cr)**

Prereq: Limited to members of the intercollegiate forensics squad or permission.  
*Tournaments from September through April.*  
This activity course is open to students who wish to represent the University of Nebraska–Lincoln in intercollegiate debate, public speaking, and oral interpretation

events. No previous experience in forensics is required. Freshmen interested in the course should contact the Director of Forensics in the Department of Communication Studies, preferably during the summer before enrollment.

**Communication Studies 311:  
Business and Professional  
Communication (3 cr)**

Prereq: Sophomore standing.  
A variety of theoretical and verbal communication approaches intended to help achieve maximum effectiveness in day-to-day relations with “people at work.” Focus on: developing interpersonal relationships and competency; interviewing techniques; oral report/technical presentation techniques; small group problem solving/leadership; organizational communication.

**Computer Science 101: Computer  
Science Fundamentals (3 cr)**

*Will not count towards the requirements for a major or minor in computer science and computer engineering.*

Not just a “How to” course, Computer Science Fundamentals is a solid introductory science course suitable for the interested non-major and also for the prospective major who just wants to get a “feel” of the breadth of Computer Science/Engineering first. Topics include digital logic, computer organization, operating systems, algorithms, programming languages, data bases, networks, automata and more. In fact, you will find a substantial “sampler” of topics that will be encountered later as a Computer Science/Engineering major! Thus this can provide a good head start. It is helpful though not necessary to at least have “played” with a computer previously. This course along with its companion lab, Computer Science 101L, satisfy Essential Studies, area D – Science and Technology course and laboratory requirements for non-majors!

**Computer Science 101L:  
Computer Science Fundamentals  
Laboratory (1 cr)**

Parallel: CSCE 101. Will not count towards the requirements for a major or minor in computer science and computer engineering. This laboratory course provides 2 hours per week of “hands on” at the

computers working with custom software that reinforces the topics taught in Computer Science 101. This is a science lab, not a training lab for computer applications!

**Computer Science 105:  
Introduction to Problem Solving  
with Computers (3 cr)**

Prereq: 4 years high school mathematics.

*Will not count towards the requirements for a major or minor in computer science and computer engineering.*

Programming oriented introduction to computer science. Intended for non-majors who need a course in general purpose programming. Also meets the programming and problem solving prerequisite for the revised Computer Science 155. Additional emphasis on programming language design, software engineering practices, and mathematics topics relevant to computer science including logic, relations, set theory, and general problem solving. Choice of language may vary by semester, but recently has been C.

**Computer Science 150:  
Introduction to Computer  
Programming (3 cr)**

Prereq or Coreq: MATH 103.

This is an introduction to programming with an orientation Chemistry Computer Science toward scientific and engineering applications. No previous programming experience is required. This is intended as a service course, not for use toward the computer science/engineering majors. The language currently used is Fortran 90, though it is possible that C/C++, Matlab, etc. may be adopted as needs change. Interested students could continue on to CSCE 155 after taking this course. Computer Science 252D is a one hour version of CSCE 150 intended for students who already have programming experience.

**Computer Science 155:  
Introduction to Computer Science  
I (4 cr)**

Prereq: CSCE 105, MATH 103, or appropriate score on placement exam.

First course for computer science/engineering majors that applies to the major degree requirements. Students enrolling in this course are expected to have a fairly good background in

programming with a high level language and to have solid high school mathematics scores. More specifically, students should have previous exposure to loops and selection control structures, I/O, data types, some use of arrays, functions and parameter passing. Topics include principles of software design and testing, problem analysis and algorithm development, abstract data types (implemented using classes and structures), event-based programming with GUI builders. The primary language is currently Java.

**Computer Science 156:  
Introduction to Computer Science  
II (4 cr)**

Prereq: CSCE 155, MATH 106.

Second level computer science course that continues the software production theme of Computer Science I. Standard programming features and techniques for managing and manipulating data including arrays, linked lists, higher level abstractions of data, searching and sorting, along with complexity considerations. Integrating software in general purpose languages (C++ and Java) with Internet programming (php, JSP, HTML) and relational databases (MySQL) as in three-tier applications. CSCE 251 is recommended as a pre- or coreq. Because of the use of Unix in this course.

**Computer Science 230: Computer  
Organization (3 cr)**

Prereq: Grade of "P" or "C" or better in CSCE 101 or 105 or 150 or 155 or 155H, or detailed knowledge of a high-level programming language; parallel CSCE 230L.

Introduction to organization and structure of computer systems. Boolean Logic, Digital Arithmetic, Processor Organization, Machine Language Programming, Input/Output, Memory Organization, System Support Software, and Communication.

**Computer Science 251: Unix  
Programming (1 cr)**

Prereq: Previous programming experience.

The old designation for CSCE 251 was CSCE 251U.

This is a one hour course on the features and practical use of the UNIX operation system including its many tools and utilities. Includes shell programming.

**Computer Science 251K: C  
Programming (1 cr)**

Prereq: Previous programming experience. This is an accelerated introduction to the C language.

**Construction Management 112:  
Construction Communications (3  
cr)**

Development of construction industry communication skills including the ability to read contract documents. Complete comprehension of working drawings, technical terminology. Fundamentals of drafting principles, sketching, and dimensioning techniques.

**Construction Management 131:  
Introduction to the Construction  
Industry I (3 cr)**

Parallel: Construction Management 101 recommended.

The purpose of this course is to provide an overview of the entire construction industry and an introduction to basic management principles and practices used in the control of manpower, materials, machinery, and money in the production of the built-environment within a time framework.

**Criminal Justice 101: Survey of  
Criminal Justice (3 cr)**

This course is designed to provide an overview of the justice process and the criminal justice system in general. Concepts of crime, deviance and justice will be discussed and general theories of crime causality will be examined. Individual rights in a democratic society will be explored, as will the legal definitions of various crimes. The law enforcement, judicial, juvenile justice and corrections subsystems will also be explored, and a number of reform proposals presented.

**Criminal Justice 203: Police and  
Society (3 cr)**

Prereq: Criminal Justice 101.

This course is designed to present an overview of the role of the police in American society. Attention is given to the origins of policing, the nature of police organizations and police work, and patterns of relations between the police and the public.

**Criminal Justice 211: The Criminal  
Court System (3 cr)**

Prereq: Criminal Justice 101.

This course provides an analysis of the function and structure of the criminal court system in the United States, including the roles of prosecutor, defender, judge, jury and court administrator. The issues confronting the system will be considered from historical, philosophical, sociological, and psychological perspectives. The course compares the ideals of the system with actual functioning and explores court reform proposals.

**Criminal Justice 221: Survey of Corrections (3 cr)**

Prereq: Criminal Justice 101.  
This is a general course describing the history and evolution of the corrections process. Covers all aspects of institutional and community-based corrections.

**Criminal Justice 251: Research Methods (3 cr)**

Prereq: Criminal Justice 101 or permission.  
*Criminal Justice 251 and Sociology 205 cannot both be applied toward the degree.*

An introduction to research methods in the social and behavioral sciences, with particular emphasis on applications to criminal justice issues. Research design rather than statistical analysis will be stressed.

**Czech 101: Beginning Czech I (5 cr)**

The main emphasis is on development of comprehension of everyday written and spoken Czech, supplemented by practice with authentic Czech materials and electronic format interactive exercises in the language laboratory. Fall semester only.

**Czech 102: Beginning Czech II (5 cr) (Spring semester only)**

Prereq: Czech 101 or equivalent.  
A continuation of the study of everyday spoken and written language, Czech culture and its institutions. Inter-active cultural information materials are used in the Language Laboratory.

**Czech 201: Second-Year Czech I (3 cr)**

(Fall semester only)  
Prereq: Czech 102 or equivalent.  
Emphasis on Czech conversational and formal language, and culturally appropriate written expression. Czech cultural institutions are studied, and Czech prose is

introduced. Review of grammar based on the text. Interactive cultural information materials are used in the Language Laboratory.

**Czech 202: Second-Year Czech II (3 cr)**

(Spring semester only)  
Prereq: Czech 201 or equivalent.  
Emphasis on Czech formal language and appropriate spoken and written expression as needed during a stay in the Czech Republic. Czech cultural institutions are studied, and moderately difficult Czech prose is introduced. Review of grammar based on the text. Interactive cultural information materials are used in the Language Laboratory.

**Dance 112: Modern Dance and Ballet (2 cr)**

Studio training in beginning modern dance technique with emphasis on mastering the fundamentals of movement. Exploration of style, phrasing, musicality and personal interpretation of movement.

**Dance 159: Introduction to History of Dance (3 cr)**

Historical survey of the art of dance designed to develop an understanding and appreciation of the various forms of dance, including the roots of contemporary ballet and the evolution of modern dance.

**Dance 211: Ballet II (2 cr, max 16)**

Prereq: Dance major or minor.  
The principles of classical ballet technique and vocabulary.

**Dance 212: Modern Dance II (2 cr, max 16)**

Prereq: Dance major or Minor.  
Expansion of the vocabulary and concepts of the modern dance idiom. Improvisational techniques, strength and faculty of movement.

**Drawing 101: Beginning Drawing (3 cr)**

Fundamental principles of drawing and perspective based on observation and imagination.

**Economics 210: Introduction to Economics (5 cr)**

Prereq: Sophomore standing and above.  
Recommended for students outside of the College of Business Administration but not for economics majors in the College of Arts and Sciences.

*Students taking Economics 210 cannot earn credit for Economics 211 and 212.*

Principles which govern the organization and behavior of modern economic systems. Includes the nature of economics and economic systems; national income; inflation and unemployment measurement and determination; money, monetary and fiscal policy; economic growth; the allocation of economic resources; the behavior of consumers and producers in markets; the distribution of income; and the international economy.

**Economics 211: Principles of Macroeconomics (3 cr)**

Prereq: Sophomore standing or above.  
Required for students in the College of Business Administration and for economics majors in the College of Arts and Sciences, or permission.  
*Students taking Economics 211 and/or 212 may not earn credit for Economics 210.*

Introduction to the nature and methods of economics. Includes economic systems, measurement and analysis of aggregate variables, such as national income, consumption, saving, investment, international payments, employment, price indices, money supply, and interest rates. Fiscal, monetary, and other policies for macroeconomic stabilization and growth are evaluated.

**Education 131: Foundations of Modern Education (3 cr)**

Problems approach to selected historical and contemporary issues in analyzing the role and function of the school in American society. Skill development and orientation to teaching as a career.

**Educational Psychology 097: Mini Seminar (0 cr)**

Note: Open only to students in the Division of General Studies.  
This course provides General Studies students with an opportunity to explore all of UNL's colleges and majors in a one-hour seminar taught once a week for the first seven weeks of class. Students will learn about the academic programs and curricula as well as the types of internships and coops current majors are enjoying. Students will also learn about the careers and salaries that recent graduates are experiencing as a result

of their matriculation in the majors offered at UNL.

**Educational Psychology 209: Strategies for Academic Success (3 cr)**

*Credit towards the degree may be earned in only one of Educational Psychology 109 or 209.*

Comprehensive examination of learning theory and practice of learning strategies related to motivation, time management, memory, lecture note taking, text processing, knowledge representation, test review, test taking, and error analysis in academic settings.

**Electrical Engineering 121: Introduction to Electrical Engineering I (3 cr)**

Electrical Engineering 121 is restricted to and required of all electrical engineering students and should be taken in the first semester at UNL.

This course is an introduction to computer organization and hardware. The students will learn computer programming using the FORTRAN language.

**Electrical Engineering 122: Introduction to Electrical Engineering II (3 cr)**

Prereq: Electrical Engineering 121; Mathematics 106 or equivalent. *Laboratory demonstrations and experiments included.*

Introduction to the use of computers to solve problems, to microprocessors and computer architecture, and to the C programming language. Engineering 010: Freshman

**Engineering Seminar (0 cr)**

*Open only to first year students in the College of Engineering. P/NP only.*

This course provides the first year student with an introduction to the professions of engineering and construction management, as well as an overview of curricula, majors and leadership opportunities in the College of Engineering.

**English 101: Writing from Literature (3 cr)**

This course focuses on composing practices and critical reading strategies through the analysis of literature. Students develop both new strategies for writing and research, and new knowledge about topics in

the context of reading and analyzing literary texts. This course provides students with extended practice in writing and literacy analysis in a supportive, student-centered environment.

**English 101A: Writing from Literature (3 cr)**

This course focuses on composing practices and critical reading strategies through the analysis of literature by or about African American and African American Americans. Students develop both new strategies for writing and research, and new knowledge about topics in the context of reading and analyzing these literary texts. This course provides students with extended practice in writing and literacy analysis in a supportive, student-centered environment.

**English 101B: Writing from Literature (3 cr)**

This course focuses on composing practices and critical reading strategies through the analysis of literature by or about Chicano/as. Students develop both new strategies for writing and research, and new knowledge about topics in the context of reading and analyzing these literary texts. This course provides students with extended practice in writing and literary analysis in a supportive, student-centered environment.

**English 101D: Writing from Literature (3 cr)**

This course focuses on composing practices and critical reading strategies through the analysis of literature by or about Native Americans. Students develop both new strategies for writing and research, and new knowledge about topics in the context of reading and analyzing these literacy texts. This course provides students with extended practice in writing and literary analysis in a supportive, student-centered environment.

**English 101H: Honors: Writing from Literature (3 cr)**

This course shares the same focus and goals as English 101 and requires an equivalent amount of required reading and writing. Course assignments assume that students have had significant prior experience and success with previous English classes and/or contexts that require

writing, revision and analysis. Admission is by invitation or application only. Contact the Department of English Chief Adviser for more information.

**English 150: Writing: Rhetoric as Inquiry (3 cr)**

This course focuses on the study and practice of writing and rhetoric as inquiry. Students develop both new strategies for writing and research and new knowledge about their topic in the context of learning about rhetorical concepts such as purpose, audience, genre, cultural context, and style. This course provides students with extended practice in writing and inquiry in a supportive, student-centered environment.

**English 150H: Honors: Writing: Rhetoric as Inquiry (3 cr)**

This course shares the same focus and goals as English 150 and requires an equivalent amount of required reading and writing. Course assignments assume that students have had significant prior experience and success with previous English classes and/or contexts that require writing, revision and analysis. Admission is by invitation or application only. Contact the Department of English Chief Adviser for more information.

**English 151: Writing: Rhetoric as Argument (3 cr)**

This course focuses on the study and practice of writing and rhetoric as argument. Students will develop strategies for argumentative and persuasive writing, and deepen their understanding of the inter-relationships between research and argument. This course provides students with extended practice in written argument in a supportive, student-centered environment.

**English 151H: Honors: Writing: Rhetoric as Argument (3 cr)**

This course shares the same focus and goals as English 151 and requires an equivalent amount of required reading and writing. Course assignments assume that students have had significant prior experience and success with previous English classes and/or contexts that require writing, revision and analysis. Admission is by invitation or application only. Contact the Department of English Chief Adviser for more information.

**English 180: Introduction to Literature (3 cr)**

*Does not satisfy the freshman English (composition) requirement.*  
A general introduction for beginning students to the understanding and appreciation of the principal forms of literature in poetry, drama, prose fiction. Not recommended for English majors.

**English 189H: University Honors Seminar (3cr) (Fall semester only)**

(see Honors Program notes)  
Prereq: Good standing in the University Honors Program or by invitation. *University Honors Seminar 189H is required of all students in the University Honors Program.*

A seminar in which students and faculty will explore how both the creation and the interpretation of texts create meaning. Each seminar will focus on a specific problem or theme. Does not apply to Area of Communication

**English 210: Themes in Literature (3 cr)**

Introductory course in groups of literary works of various types from various periods and countries, studied in the context of a significant issue or concept. Examples: Christian themes in literature, Arthur in legend and literature, literature of war and peace, and illness and health in literature.

[IS] **I. Illness and Health in Literature**

[IS] **L.Arthur in Legend and Literature**

[IS] **P.Literature of War and Peace**

[IS] **T. Stories and Human Experience**

**English 215E: Introduction to Women's Literature (3 cr)**

[IS]  
Representative works in various forms by women from the Middle Ages to the present, in order to identify significant cultural, social, and historical issues and themes.

**English 215J: Twentieth-Century Women Writers (3 cr)**

[IS]  
Introduction to a variety of works written by women in the twentieth century, including British, American, and translated works, as seen in their intellectual and cultural context.

**English 244: African American Literature (ETHN 244)**

(3 cr)  
[IS]  
Representative African American works, primarily twentieth century, of various genres, studied in their social and historical contexts.

**English 245B: Native American Literature (ETHN 245B) (3 cr)**

[IS]  
Introduction to literature by and about the American Indian covering early and recent periods.

**English 245D: Chicana and/or Chicano Literature (3 cr)**

Introduction to literature by and about Mexican-Americans in its cultural and historical context.

**English 252: Writing of Fiction (3 cr)**

[IS]  
Introduction to the writing of fiction. Emphasis on student writing within a context of theory and criticism.

**English 252A: Introduction to Writing Fiction (3 cr)**

[IS]  
Introduction to the writing of fiction. Student writing, reading multicultural fiction writers, and issues that concern multicultural writers.

**English 253: Writing of Poetry (3 cr)**

[IS]  
Introduction to the writing of poetry. Emphasis on student writing within a context of theory and criticism.

**English 253A: Writing of Poetry-Women's Poetry (3 cr)**

Introduction to the writing of poetry. Emphasis on student writing with special focus on reading women poets and on issues that concern women writers.

**English 254: Rhetorical Practice and Writing Communities (3 cr)**

[IS]  
Extended practice of writing through examining specific contexts for writing and research.

**Entomology 108: Insects, Science and Society (Fall semester only) (3 cr)**

*This course will not count for credit toward the biological sciences major, nor will it fulfill the natural science*

*requirement in the College of Arts and Sciences.*

A nontechnical, entertaining introduction to insect biology, the impact of insects on human culture and history, and topical issues, including pesticides and the environment, new pests and diseases, and threats to ecosystems. Using insects as a focus, the course will address broader themes of biological diversity, evolution, biology and history, the nature of scientific inquiry, and conflicts of science, technology, and society.

**Entomology 115: Insect Biology (3 cr)**

Lec 2.  
Cross-listed with Biological Sciences 115.

Students are introduced to the discipline of entomology through a survey of general insect biology, emphasizing insect structure, function, development, and habits. Harmful and beneficial insects, insecticide usage, and aspects of applied entomology are surveyed. Two lectures and one two-hour laboratory per week.

**Entomology 116: Insect Identification (1 cr)**

Cross-listed with Biological Sciences 116.

Students are introduced to the discipline of entomology through a survey of general insect biology, emphasizing insect structure, function, development, and habits. Harmful and beneficial insects, insecticide usage, and aspects of applied entomology are surveyed. The laboratory stresses the recognition and identification of insects. Two lectures and one two-hour laboratory per week.

**Ethnic Studies 100: Freshman Seminar--The Minority Experience (3 cr)**

Prereq: Freshman standing or permission of instructor.  
This is an interdisciplinary course dealing with minority groups in American society. The course attempts to give students a view of majority-minority relationships, especially from the viewpoint of the minority perspective.  
A seminar atmosphere is provided to insure considerable interaction among students regarding the topics presented. A number of minority groups are covered in hopes of

making comparisons among the various minority group experiences.

**Ethnic Studies 150: African Culture and Civilization (3 cr)**

Cross-listed with History 150.  
A survey of sub-Saharan African History from the rise of the first great kingdoms to the present. Attention will focus on African societies in their transformation under the impact of the West.

**Ethnic Studies 171: Latin American Culture and Civilization (3 cr)**

Cross-listed with History 171.  
A topical and analytical survey of the development of Latin American culture and civilization. The themes to be discussed include race relations, war and peace, and the struggle for a better life.

**Ethnic Studies 211: Intercultural Communication (COMM 211) (3 cr)**

[IS]  
Exploration of culture as a dimension of all communicative activity. Communication between cultural groups in a variety of contexts, e.g. interpersonal relationships, groups, organizations, politics, and international relations.

**Ethnic Studies 217: Nationality and Race Relations (3 cr)**

Prereq: 3 hrs of sociology or related social sciences.  
Concepts of race and patterns of race distribution. Impact of European expansion on ethnic relations. Types of ethnic social systems. Patterns of ethnic social interaction. Problems of minorities. Types of ethnic policies.

**Ethnic Studies 238: Blacks and the American Political System (POLS 238) (3 cr)**

Role of the Blacks in the American political system, with emphasis on strategies used to gain political power and influence decision makers; problems faced in the southern and urban political settings.

**Ethnic Studies 241. Native American History (HIST 241) (3 cr)**

History of Native peoples of North America, focusing on peoples of the region that became the United States. Surveys major themes and issues in Native American history from origins to the present day. Includes tribal cultures and politics; responses

to and interactions with Europeans and Euro Americans; land loss and the degradation of Native Americans' natural resource bases; "pan-Indian" movements; cultural persistence and revitalization; and tribal economies in the twentieth century.

**Ethnic Studies 244: African American Literature (ENGL 244) (3 cr)**

Representative African American works, primarily twentieth century, of various genres, studied in their social and historical contexts.

**Ethnic Studies 245B: Native American Literature (ENGL 245B) (3 cr)**

[IS]  
Introduction to literature by and about the American Indian covering early and recent periods.

**Ethnic Studies 245D: Chicana and/or Chicano Literature (ENGL 245D) (3 cr)**

[IS]  
Introduction to literature by and about Mexican-Americans in its cultural and historical context.

**Ethnic Studies 330: Multicultural Education (3 cr)**

Prereq: Sophomore standing.  
Role of minority group status in American society. Ethnic minority group cultures, the existence of subcultures within the mainstream of society, women in the social setting, and their relationship to the American education process. Analytic methods of study.

**Food Science and Technology 101: Human Food Resources (2 cr)**

(Fall semester only)  
This course deals with man's development of the food supply to the present, the meeting of future needs, and current food fads and fallacies. Specific attention is given to the history and current development of food preservation, food acceptance, food quality, and properties of food. Consideration is also given to ways in which government and industry assure consumers safe and nutritious foods. An introduction to foods of the future is given.

**Food Science and Technology 131: The Science of Food (3 cr)**

Lec 3.

Cross-listed with Chemistry, Nutritional Science 131.  
This course is designed as a basic and applied science, general liberal education course emphasizing general scientific concepts in biology, chemistry, and physics using food as a model. Students will learn what food is, from its chemical and nutritional perspectives, and the fate of food from when it leaves the farm to when it becomes a part of the individual. The course should assist students in making intelligent decisions about many food related controversial issues (e.g., food irradiation, food additives, health foods).

**Food Science and Technology 131L:**

Introduction to laboratory techniques: food chemistry, food biochemistry, food analysis, food safety microbiology, and food fermentation.

**Food Science and Technology 132: Practical Applications in Food Science (1 cr II)**

Lab 3.  
Prereq: Food science and technology major or permission.

This course is designed to give the students a more in-depth experience in several areas, including food processing, food preservation, nutrition, food safety, food quality, and food marketing. Students will be exposed to actual food processing procedures and equipment, and they will examine food using microbiological and chemical procedures.

**French 101: Beginning French I (5 cr)**

Main emphasis is on the development of comprehension of written and spoken French; reading of simple texts dealing primarily with contemporary French and French life; and oral and aural drill, supplemented by practice in language laboratory.

**French 102: Beginning French II (5 cr)**

Prereq: French 101 or equivalent score on French Language Placement Exam.  
Continuation of French 101.

**French 201: Second-Year French I (3 cr)**

Prereq: French 102 or equivalent score on French Language Placement Exam.

Course works in all four skills areas with particular emphasis on listening comprehension and pronunciation. Grammar review and vocabulary expansion are tied to different situations of interaction. Dialogue journals are used to build writing skills.

**French 202: Second-Year French II (3 cr)**

Prereq: French 201 or equivalent score on French Language Placement Exam.

Continuation of French 201, with emphasis on reading comprehension. Class discussion in French, based on texts.

NOTE: The French 210 block course (see below) combines two semesters of study into one by allowing two complementary courses (French 201 and 202) to be taken simultaneously. The intensity and continuity of the contact with the target language make for very efficient learning. In the fall semester, French 203 and 204 may be blocked, but a separate registration will be required for each course. See the Schedule of Classes for details.

**French 203: Conversation and Composition I (3 cr)**

Prereq: French 201 or equivalent score on French Language Placement Exam.

These courses are designed to give guided practice in speaking and writing French. French 203 and 204 are required of upper-level courses and are recommended for those who plan to travel or study abroad. French 203 may be taken in conjunction with French 202.

**French 204: Conversation and Composition II (3 cr)**

Prereq: French 203 or equivalent score on French Language Placement Exam.

Continuation of French 203.

**French 210: Accelerated Second-Year French (6 cr)**

Prereq: French 102 or equivalent score on French Language Placement Exam.

This course covers the same material as French 201-202 and counts as 201-202 in satisfying the liberal education requirements of the College of Arts and Sciences.

**French 321: French Civilization I (3 cr)**

(Fall semester only)

Prereq: French 204 or equivalent.

These courses presuppose four or five solid years of high school French or two to three years of college French (through French 203). They include a survey of the social, cultural, and political history of France. Lectures in French, class discussions, and written reports are supplemented with slides, films, and tapes.

**Geography 120: Introductory Economic Geography (3 cr)**

This course introduces reasons for the locations of agriculture, mining, manufacturing, retailing, and business services. It discusses the role of changing transportation technology, the distribution and evolution of urban areas, and numerous economic policies that favor specific places over less desirable locations. Because the emphasis is on principles of location rather than simply memorizing facts of position, students improve their understanding of current issues such as patterns of world trade in oil and cars, the decline of businesses in rural towns, and the effects of multinational corporations on the lives of people throughout the world.

**Geography 140: Introductory Human Geography (3 cr)**

The study of the geographical patterns of human occupancy on the earth's surface. Topics include human perceptions of places; spatial and ecological dimensions of population, culture, language, and religion, and the geographic patterns of political organization. These topics are examined at a variety of scales ranging from local community to national to global levels.

**Geography 150: Physical Geography (3 cr)**

*Students may not earn credit toward the degree in both Geography 150 and 155.*

Basic elements of the physical environment. Introduction to the fields of climatology and meteorology through examination of atmospheric processes. Landforms and the processes responsible for their creation. Modifying work of people within the natural environment.

**Geography 155: Elements of Physical Geography (4 cr)**

*Students who earn credit toward the degree in Geography 155 may not earn credit toward the degree in Geography 150 or in the combination of Geography 150 and 152.*

An investigation of the basic elements of the physical environment of the earth and its atmosphere. Topics covered will include atmospheric processes, temperature distributions, weather systems, severe weather, climates, water balance, vegetation and soil distributions, landforms and their processes, and natural hazards. In addition, the modifying influences that humans have on the physical environment and atmosphere will be examined.

**Geography 170: Introduction to Great Plains Studies (3 cr) (Fall semester only)**

Cross-listed with Anthropology, Great Plains Studies, Natural Resources, Sociology 170.

*Required for Great Plains Studies majors and minors.*

An interdisciplinary introductory course, this will include the study of the natural environment, social environment, human heritage, arts, and humanities of the Great Plains.

**Geography 181: Quality of the Environment (3 cr)**

An analysis of the human role in altering the quality of the environment through impacts on eco-health, transformation of the landscape, and spatial organization and behavior.

**Geography 242: The Geographical Background to World Affairs (3 cr)**

An outline of the geographical background to some of the world's major problems associated with the utilization of the resources of the earth. The course will open with a series of lectures dealing with general problems and then will proceed to regional appraisals.

**Geography 271: Geography of the United States (3 cr)**

This is an introductory course in the physical and cultural geography of the United States. Using first a topical approach we investigate the population, urbanization, and physical geography of the country. The course then looks at the United States region by region. Each region

is analyzed as to its cultural traits, economic systems, and physical characteristics.

**Geography 272: Geography of World Regions (3 cr)**

For those curious about the modern world and/or those wanting a global background for teaching, communications, or business, this course provides basic information about the social, political, and economic conditions of major countries of the world. By examining the characteristics of foreign lands and exploring the similarities and differences among people of the world, the course benefits anyone who feels uninformed about world geography but who wants to understand global issues and to vote intelligently.

**Geography 283: Space, the Environment and You (3 cr)**

This course is designed to help students develop their awareness of the extent to which their feelings, behavior, and thoughts are influenced by their physical surroundings. The course introduces students to such topics as environmental dispositions or attitudes, environmental knowing or cognition, mental maps, personal space, territoriality, and crowding.

**Geology 100: Introduction to Geology (3 cr) Lec 3**

*Geology 100 does not fulfill the prerequisite requirement for any course in geology. Credit toward the degree may be earned in only one of Geology 100 or 101.*

A basic background in physical geology for non-majors. Topics include rocks and minerals, surficial processes, plate tectonics and applied geology.

**Geology 101: Physical Geology (4 cr)**

Lec 3, lab 3

Minerals, rocks and ores; the surface features and internal character of the earth and the forces that are constantly changing it. Lab includes examination of minerals and rocks and investigation of geological processes and their products.

**Geology 101H: Honors Physical Geology (4cr)**

Lec 3, lab 3.

*Lab includes field trips. Credit toward the degree may be earned in*

*only one of Geology 100 or 101 or 101H.*

**Geology 103H: Historical Geology (4 cr)**

Lec 3, lab 3.

Prereq: Geology 101.

The physical and biological evolution of the earth. Laboratory work includes examination of ancient geological terrains through maps and fossils.

**Geology 105: Life of the Past (3 cr)**

Lec 3.

*Credit towards the degree may be earned in only one of: Geology 103H or 105. Geology 105 is not open to geology majors.*

General survey of the evolution of plants and animals in relation to the geological changes in lands and seas. Includes records of fossil human and higher mammals, as well as dinosaurs and the invertebrates.

**Geology 106: Environmental Geology (3 cr)**

Lec 3.

Survey of geologic materials and processes with emphasis on those that influence modern societies' adjustment to our environment.

**Geology 107: Frontiers of Earth Science (1-6cr)**

A series of three five-week sessions, each dealing with a geologic topic of current interest and concern. Course topics will vary from semester to semester and are listed in the Schedule of Classes.

**Geology 109: Oceanography (3 cr)**

Lec 3.

Introduction to physical oceanography, the geologic aspects of biologic oceanography and human's impact on the oceans.

**Geology 110: Geological Natural Hazards (3 cr)**

Lec.

Major geological natural hazards that affect human society and the geological processes that are responsible for them. Earthquakes, tsunami, volcanoes, landslides, floods, wildfires, and meteorite impacts.

**Geology 115: Earth's Energy Resources (3 cr)**

Lec 3.

The geological controls on the occurrence and distribution of important and potentially important

energy resources. The environment and economic implications of energy resources exploration, development, and production.

**Geology 120: Geology of National Parks and Monuments (3cr)**

Lec 3.

Physical and historical geology of selected United States parklands. Geological and geophysical processes that produced the unique features of the parks. Interpretation of fossils, archaeology and geologic history. Environmental park policy issues involving geosciences.

**German 101: Beginning German I (5 cr)**

German 101 and 102 comprise a thorough introductory course in comprehending, speaking, reading and writing standard German. The class meets five times a week, in addition to which each student is required to spend at least one hour per week in the language laboratory.

**German 102: Beginning German II (5 cr)**

Prereq: German 101 or equivalent score on German Language Placement Exam.

Continuation of German 101.

Readings on contemporary cultural and social issues in German-speaking countries.

**German 201: Second-Year German I (3 cr)**

Prereq: German 102 or equivalent score on German Language Placement Exam.

Expansion of comprehension, speaking, reading and writing skills in German, in addition to a complete grammar review. Courses meet three times per week; each student is required to spend at least one hour per week in the language lab.

**German 202: Second-Year German II (3 cr)**

Prereq: German 201 or equivalent score on German Language Placement Exam.

Continuation of German 201.

Reading of more difficult texts. Class discussion and reports on supplementary reading.

**German 203: Composition and Conversation I (3 cr)**

Prereq: German 202 or equivalent score on German Language Placement Exam.

*German 203 may be taken parallel with 202, 321, or 322.*

These courses are designed to give students an opportunity to improve their ability to speak and write the language. German 203 and 204 are recommended for those who plan to travel or study abroad.

**German 204: Composition and Conversation II (3 cr)**

Prereq: German 202 or equivalent score on German Language Placement Exam.

Continuation of German 203.

**German 210: Accelerated Second-Year German (6 cr)**

Prereq: German 102 or equivalent score on German Language Placement Exam.

This course combines German 201 and 202 in one semester.

Each student is required to spend at least one hour per week in the language lab.

**German 321: German Civilization I (3 cr)**

(Fall semester only)

Prereq: German 202 or equivalent.

This course presupposes four years of high school German or two years of college German (through German 202). They include a chronological survey of the social, cultural, and political history of Germany.

Lectures and discussion in German, supplemented with slides and recordings.

**Gerontology 200: Introduction to Gerontology (3 cr)**

An introduction to social gerontology and human development in later life; emphasis is on important elements of aging, such as socialization, family interaction, retirement, physical, and psychological aging, and perceptions of older persons in contemporary society.

**Great Plains Studies 170: Introduction to Great Plains Studies (3 cr)**

(Fall semester only)

Cross-listed with Anthropology, Geography, Natural Resources, Sociology 170.

*Required for Great Plains Studies majors and minors.*

An interdisciplinary introductory course, this will include the study of the natural environment, social environment, human heritage, arts, and humanities of the Great Plains.

**Greek 101: Elementary Greek I (5 cr)**

(Fall semester only)

The study of ancient Greek prepares the student to read the basic works of Western thought and literature. This introductory course is a yearlong sequence that covers the forms, syntax, and vocabulary of classical Greek. A basic vocabulary is strengthened through easier Greek reading by the second semester.

Upon completion of the course the student is prepared to read from such essential authors as Homer and Plato. This course also serves as a foundation for study of the Greek New Testament.

**Greek 102: Elementary Greek II (5 cr)**

(Spring semester only)

Continuation of Greek 101, reading of Attic prose.

**History 100: Western Civilization to 1715 (3 cr)**

This course will explore on a topical basis the essential ideas and practices that have shaped the development of the Western world from the Greeks and Romans to the Enlightenment.

**History 100H: Honors: Western Civilization to 1715 (3 cr)**

(Fall semester only)

Prereq: Good standing in the University Honors Program or by invitation or permission.

**History 101: Western Civilization since 1715 (3 cr)**

This course will analyze on a topical basis the impact of social, economic, political, and intellectual change upon Europe from the Enlightenment and will describe the dramatic rise of Europe to prominence in the world and the equally dramatic demise of European domination in the twentieth century age of war and destruction. We also offer 101H, which is described in the Arts and Sciences bulletin.

**History 105: American Ways (3 cr)**

Cross-listed with Political Science 105.

Prereq: Open to freshmen only.

*Not open to students with credit in History 201 or 202 or Political Science 100.*

This course will develop a historical perspective on current American political problems. The basic theme will be the peculiar American

relationship to questions of scarcity and how our political institutions have been shaped by those questions.

**History 120: World History (3 cr)**

This course will offer a survey of world history from early man to the present. Stress will be given to general patterns of human experience: modes of production, structures of power, systems of belief, etc. The course will provide a fuller appreciation of the similarities and differences that exist among the world's major religions and cultural traditions. A textbook, a collection of documents and several other books will be assigned. Lectures will be interspersed with discussions and some films. Grades will be based on two in-class exams, a final exam, and a short paper.

**History 150: African Culture and Civilization (3 cr)**

Cross-listed with Ethnic Studies 150. A survey of sub-Saharan African History from the rise of the first great kingdoms to the present. Attention will focus on African societies in their transformation under the impact of the West.

**History 171: Latin American Culture and Civilization (3 cr)**

(Fall semester only)

Cross-listed with Ethnic Studies 171. A topical and analytical survey of the development of Latin American culture and civilization. The themes to be discussed include race relations, war and peace, and the struggle for a better life.

**History 181: Introduction to East Asian Civilization (3 cr)**

Cross-listed with Political Science 171.

A survey of the traditional cultures and modern history of China and Japan. Emphasis is on political systems, intellectual and religious history, and cultural development.

**History 201: American History to 1877 (3 cr)**

A survey of American history from the age of discovery through the Civil War. Emphasis on political, economic, and social problems in the growth of the American nation.

**History 201H: Honors: American History to 1877 (3 cr)**

(Fall semester only)

Prereq: Good standing in the University Honors Program or by invitation or permission.

**History 202: American History after 1877 (3 cr)**

Emphasis on the political, economic, and social problems accompanying America's rise as an industrialized world power.

**History 205: History of Canada (3 cr)**

Survey of Canadian history from 16<sup>th</sup> century European exploration to present. Interactions between indigenous peoples and European newcomers. Establishment of French and British settlements. Social, economic and political developments. The persistent dilemma of national identity.

**History 209: Ancient Greece (3 cr)**

From the Stone Age until the Roman conquest (2<sup>nd</sup> century BC). The rise and fall of the city-state, types of government, relations with foreign peoples, class and gender issues, military matters and religion.

**History 210: Ancient Rome (3 cr)**

From the Stone Age until the start of the Byzantine Empire (6<sup>th</sup> century AD). The expansion of Rome, military changes, social organization, gender studies, relations with foreign peoples, pagan religion, and Christianity.

**History 211: History of the Middle Ages (3 cr)**

Transition from ancient to Medieval civilization; the so-called Dark Ages; the late Medieval Renaissance and the dawn of the modern era.

**History 217: Israel: The Holy Land (3 cr)**

Survey of the history of the Land of Israel from Biblical times to the present. Includes Roman and Byzantine rule, the Crusades, Islamic Palestine, Zionism and the modern state of Israel, and the religious importance of the land for Judaism, Christianity, and Islam.

**History 219: Introduction to Jewish History (3 cr)**

Survey of the history of the Jewish people from Biblical times to the present. The Old Testament, Ancient Israel, the Talmud, the

relationship to Christianity and Islam, persecution and self-government in the middle ages, Jewish philosophy and mysticism, emancipation, modern anti-Semitism, the Holocaust, Zionism, the modern state of Israel, and the Jewish experience in America.

**History 220: History of Christianity (3 cr)**

Impact of the Judaeo-Christian tradition upon the development of Western civilization.

**History 221: Science in History (3 cr)**

Surveys the history of science from the Scientific Revolution of the 16<sup>th</sup> and 17<sup>th</sup> centuries to the present. Includes the birth of modern science; the theory of evolution; the revolution in physics; science and religion; and the relations of science and society.

**History 232: History of England Since the Glorious Revolution (3 cr)**

Development of the modern state and the empire; problems of a great power, industrialization and its aftermath; Britain in the contemporary world.

**History 241: Native American History (ETHN 241) (3 cr)**

History of Native peoples of North America, focusing on peoples of the region that became the United States. Surveys major themes and issues in Native American history from origins to the present day. Includes tribal cultures and politics; responses to and interactions with Europeans and Euro Americans; land loss and the degradation of Native Americans' natural resource bases; "pan-Indian" movements; cultural persistence and revitalization; and tribal economies in the twentieth century.

**History 261: Russia to the Era of Catherine the Great (3 cr)**

Origins of Russia, the growth and decline of the Kievan State, the formation and development of Muscovy and Imperial Russia to the end of the 18<sup>th</sup> century.

**History 272: The Latin American Republics (3 cr)**

Survey of the evolution of the Latin American nations since independence, with stress upon political, economic, and social problems.

**History 282: Modern East Asia (3 cr)**

Emphasis on problems deriving from relations with the West, the industrialization effort, growth of nationalism, militarism, democracy, and communism.

**Horticulture 130: Introduction to Horticulture (4 cr)**

(Fall semester only)

Scientific concepts and practical skills necessary for success in this field are discussed. Emphasis is on the application of basic and applied sciences.

**Horticulture 170: Residential Landscape Design (2 cr)**

An introductory course for non-horticulture majors in home landscaping focusing on the basic design elements and processes. Students will: prepare a program, analyze a dwelling and site, determine a phased budget, conceptualize a layout, select detailed elements and techniques to implement a design for an actual residence.

**Horticulture 200: Landscape and Environmental Appreciation (3 cr)**

Critical examination of values and processes in human landscapes and natural environments; concepts and tools to understand the context of local and global environments and significant historical landscapes. Landscape as an indicator of aesthetic quality; design principles and processes as integrators of humans and nature; and the garden as a model for creating sustainable landscapes.

**Horticulture 212: Landscape Plants I (3 cr)**

Cross-listed with Natural Resources 212.

Prereq: Horticulture 130.

*Several required off campus field trips will be scheduled for Saturdays.* Identification using botanical and common names for herbaceous annuals, perennials, grasses, ground covers, vines, trees, and shrubs commonly found in Great Plains gardens, parks, and landscapes is stressed through field visits.

**Human Resources and Family Sciences 183: Orientation to Human Resources and Family Sciences Professions (2 cr)**

Introduces the student to contemporary problems in

individual and family life with emphasis on roles that human resources and family sciences professionals can assume in providing economic, physical, and psycho-social well-being for people. Students will investigate the past, present, and future issues through lecture, discussion, individual research and problem-solving activities.

**Industrial and Management Systems Engineering 050: Introduction to Industrial Engineering (0 cr)**

Lab 3.

*Pass/No Pass only.*

Overview of industrial engineering areas: industrial engineering history, job functions, career paths, and future industry trends.

**Interior Design 106: Introduction to Design (3 cr)**

Cross-listed with Architecture 106. Investigation of environmental problems. Theory and practice of environmental design and the forces influencing its development. Architecture, planning and construction as environmental disciplines.

**Interior Design 140A: Visual Literacy Lab Analysis/Composition (2 cr)**

Cross-listed with Architecture, Art Theory & Practice, and Textiles, Clothing, & Design 140A. Prereq: Admission to the College of Architecture.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on principles of 2-D and 3-D design, drafting and sketching, developing spatial awareness, and critical thinking.

**Interior Design 140B: Visual Literacy Lab Perceptual Drawing (2 cr)**

Cross-listed with Architecture, Art Theory & Practice, and Textiles, Clothing, & Design 140B. Prereq: Admission to the College of Architecture. Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on the perception of edges, spaces, relationships, form, light, and shadow, and critical thinking.

**Interior Design 141A: Visual Literacy Lab Color (2 cr)**

Cross-listed with Architecture, Art Theory & Practice, and Textiles, Clothing, & Design 141A. Prereq: Admission to the College of Architecture. Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on value/hue sequencing, use of color in 2-D composition, and impact on psychological/emotional information.

**Interior Design 141B: Visual Literacy Lab Speculative Drawing (2 cr)**

Cross-listed with Architecture, Art Theory & Practice, and Textiles, Clothing, & Design 141B. Prereq: Admission to the College of Architecture. Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on value/hue sequencing, use of color in 2-D composition, and impact on psychological/emotional information.

**Interior Design 143: Visual Literacy: Art & Design (2 cr)**

Cross-listed with Architecture, Art Theory & Practice, and Textiles, Clothing, & Design 143. Prereq: Admission to the College of Architecture. Lecture-style introduction to issues in visual literacy as they relate to art and design. Includes terminology and examination of current critical theory regarding visual literacy for use in later design courses and the understanding of contemporary culture.

**Interior Design 223: Computer Applications in Architectural and Interior Design I (3 cr)**

Cross-listed with Architecture 223. Basic principles and concepts of applications of computer technology to architectural and interior design. Develops fundamental knowledge and skills to make effective use of computer technology to aid investigation in design studios.

**Japanese 101: Beginning Japanese (5cr)**

Fundamentals of the language. Emphasis on speaking and listening. Japanese phonetic symbols (Hiragana and Katakana).

**Japanese 201: Second Year Japanese (3cr)**

Prereq: Japanese 102 or equivalent. Continuation of Japanese 102. Reading of moderately difficult Japanese texts. Conversational and writing exercises based on the texts.

**Journalism 101: Principles of Mass Media (3 cr)**

Introduction to the mass media as sources of news and entertainment as well as conduits for messages of persuasion. Includes background and history about print and broadcast media and about advertising and public relations. Emphasis on how the media and persuasive messages both affect and are affected by society.

\* Open to students from any major.

**Journalism 102: The Art of Writing (3 cr)**

Prereq: Qualifying writing exam score and a major in the College of Journalism and Mass Communications. This course will provide a sound grammatical foundation, storytelling abilities, an expanded, enriched vocabulary, self-editing skills, a creative spark and the ability to identify specialized audiences. (Note: No student may enroll in more than two 100-level journalism courses at the same time.)

**Journalism 120: Basic Business Communications (3 cr)**

Designed to enable students to apply fundamental principles of written business communications, emphasizing language basics, message components, analysis of business correspondence problems, and preparation of functional communications including letter, short business reports, and administrative communications. \*Not for College of Journalism and Mass Communication majors.

**Journalism 142: Visual and Aural Literacy (2 cr)**

Prereq: A major in the College of Journalism and Mass Communication or enrollment in a major that recommends this course. This course will examine the importance of images in mass media and how to create visual work for the mass media using text, still and moving pictures and graphics.

**Journalism 200: Technical Communication I (3 cr I, II)**

*Open only to freshmen and sophomores. For students with limited or no course work in their majors.*

Introduction to written and oral communication and document design principles and strategies as applied in the sciences and technology. Communications for various audiences and/or purposes and/or situations.

(Not for College of Journalism and Mass Communication majors.)

**Judaic Studies 205: Introduction to the Hebrew Bible/Old Testament (3 cr)**

Introduction to the Hebrew Bible/Old Testament in translation. History, culture and religion of Ancient Israel as it is reflected in the biblical books and the archaeological record.

**Landscape Architecture 140A: Visual Literacy Lab Analysis/Composition (2 cr)**

Cross-listed with Art Theory & Practice, Interior Design, and Textiles, Clothing, & Design 140A. Prereq: Admission to the College of Architecture.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on principles of 2-D and 3-D design, drafting and sketching, developing spatial awareness, and critical thinking.

**Landscape Architecture 140B: Visual Literacy Lab: Perceptual Drawing (2 cr)**

Cross-listed with Art Theory & Practice, Interior Design, and Textiles, Clothing, & Design 140A. Prereq: Admission to the College of Architecture.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on the perception of edges, spaces, relationships, form, light, and shadow, and critical thinking.

**Landscape Architecture 141A: Visual Literacy Lab Color (2 cr)**

Cross-listed with Art Theory & Practice, Interior Design, and Textiles, Clothing, & Design 141A. Prereq: Admission to the College of Architecture.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on value/hue sequencing, use of color in 2-D composition, and impact on psychological/emotional information.

**Landscape Architecture 141B: Visual Literacy Lab Speculative Drawing (2 cr)**

Cross-listed with Art Theory & Practice, Interior Design, and Textiles, Clothing, & Design 141B. Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on value/hue sequencing, use of color in 2-D composition, and impact on psychological/emotional information.

**Landscape Architecture 143: Visual Literacy: Art and Design (2 cr)**

Introduction to issues in Visual Literacy as they relate to art and design. Formal and critical analysis.

**Landscape Architecture 200: Landscape and Environmental Appreciation (3 cr II)**

Values and processes in human landscapes and natural environments. Concepts and tools to understand the context of local and global environments and significant historical landscapes. Landscape as an indicator of aesthetic quality, design principles and processes as integrators of humans and nature, and the garden as a model for creating sustainable landscapes.

**Landscape Architecture 223: Computer Applications in Architectural and Interior Design I (3 cr)**

Basic principles and concepts of applications of computer technology to architectural and interior design. Develops fundamental knowledge and skills to make effective use of computer technology to aid investigation in design studios.

**Latin 101: Elementary Latin (5 cr) (Fall semester only)**

Knowledge of Latin is essential for any serious study of Western history, languages, and culture. It also helps in acquiring a mastery of the technical and argumentative uses of the English language. Latin 101 and 102 comprise a year long sequence,

which offers the amount of preparation ordinarily covered in two years of high school Latin. The course teaches the forms, syntax, and vocabulary of classical Latin prose. Examples and selections from the works of Caesar and Cicero are used.

**Latin 102: Elementary Latin (5 cr) (Spring semester only)**

A continuation of Latin 101.

**Latin 201: Intermediate Latin (3 cr)**

(Fall semester only)  
Prereq: Two years of high school Latin.

This course is designed for students who have had two years of Latin in high school and need some review. The first half of the semester will be devoted to a thorough review of Latin forms and syntax. In the second half of the course students will read Latin prose, mostly the writings of Cicero.

**Library 110: Introduction to Library Research (1 cr)**

A seven-week independent learning course designed to provide a practical understanding of libraries, their organization, tools, and services. The course emphasizes effective strategies for accessing information and performing library-based research.

**Mathematics 85, 86: Geometry I, II (0 cr)**

*(85 offered fall semester only; 86 offered spring semester only)*

Designed for students who need an introductory (high school level) geometry course. Prerequisite is one year of high school algebra. Geometry I includes the concepts of assumptions, theorems, proofs, congruence of triangles, perpendicularity, parallelism, and quadrilaterals. Geometry II includes space geometry, angles, similar triangles, the circle, locus, coordinate geometry and areas. This course is also available via correspondence through the UNL Extended Education & Outreach Independent Studies Program as Mathematics 033R, 034N. Campus students register at the Extended Education & Outreach, 900 North 21<sup>st</sup> Street.

**Mathematics 95C: Intermediate Algebra (0 cr)**

Prereq: one year of high school algebra.

This noncredit course offered by the Department of Mathematics (203 Avery Hall) meets four hours per week and costs \$250. It can be used to remove a second year high school algebra deficiency. This course is recommended for students who need a course that moves at a slower pace than 100A and for students who want to build their mathematics background without having the course be a part of their permanent record. You may register for Mathematics 95C regardless of your score on the Mathematics Placement Exam.

**Mathematics 100A: Intermediate Algebra (3 cr)**

Prereq: One year high school algebra and appropriate score on the Math Placement Exam.

*Credit earned in Mathematics 100A will not count toward degree requirements.*

This course is a college level survey of the mathematics usually found in the second year of high school algebra. This includes the study of real numbers, polynomials, powers, roots, radicals, linear and quadratic equations, word problems, functions, and graphing.

**Mathematics 101: College Algebra (3 cr)**

Prereq: Appropriate placement exam score and either two years of high school algebra or a grade of P, C, or better in Mathematics 100A.

This course will stress the use of functional notation throughout and covers the necessary preparatory material for Mathematics 102 and 104. The topics include: functions, graphs, polynomials, rational functions, powers, linear and quadratic equations, natural logarithms and exponentials, and applications.

**Mathematics 102: Trigonometry (2 cr)**

Prereq: One year high school geometry and either two years high school algebra, one semester high school precalculus, and a qualifying score on the Math Placement Exam; or a grade of C, P, or better in Mathematics 101.

*Credit toward the degree may be earned in only one of Mathematics 102 or 103.*

This course includes the study of trigonometric functions, identities, trigonometric equations, solutions of triangles, inverse trigonometric functions, and graphs.

**Mathematics 103: College Algebra and Trigonometry (5 cr)**

Prereq: Appropriate placement exam score, one year high school geometry, and two years high school algebra. For students with previous college math courses, permission is also required. This course is basically Mathematics 101 and 102 combined.

**Mathematics 104: Calculus for Managerial and Social Sciences (3 cr)**

Prereq: A grade of C or better in Mathematics 101. If no previous mathematics course at UNL, then a satisfactory score on the Mathematics Placement Exam and two years of high school algebra plus one semester of high school precalculus.

*Credit for both Mathematics 104 and 106 is not allowed.*

Functions and graphs, derivatives and tangents, curve sketching, maxima and minima, chain rule, implicit functions, applications to marginal cost, area under curves, definite and indefinite integration, logarithms, exponential functions, compound interest, exponential growth and decay.

**Mathematics 106: Analytic Geometry and Calculus I (5 cr)**

Prereq: One year high school geometry; two years algebra and one year precalculus-trig in high school, or Mathematics 102 or 103 or equivalent. Math Placement Policy applies.

*Credit for both Mathematics 104 and 106 is not allowed.*

Designed for students with thorough preparation in high school level algebra, geometry, and trigonometry. Mathematics 106, 107, and 208 form a sequence. The course includes the study of the basic concepts of differential and integral calculus and applications of these ideas.

**Mathematics 106B: Calculus I for Biology and Medicine (5 cr)**

Lec, rct.

Prereq: One year high school geometry; two years high school algebra and one year high school precalculus-trigonometry, or MATH 102 or 103 or equivalent.

Functions of one variable, limits, differentiation, integration theory, fundamental theorem of calculus, with applications in the life sciences.

**Mathematics 107: Analytic Geometry and Calculus II (5 cr)**

Prereq: Grade of D or better in Mathematics 106 or equivalent.

Transcendental functions, integration techniques, sequences, infinite series, Taylor series, polar coordinates, slope fields, and separable differential equations.

**Mathematics 107H: Fall Semester Honors Calculus II (5 cr)**

Prereq: By invitation only and Mathematics 106 or equivalent high school pre-paration.

The content is similar to that of Mathematics 107.

**Mathematics 108H: Honors Accelerated Calculus I (5-7 cr)**

(Fall semester only)

Prereq: By invitation only. This is an accelerated calculus that covers all of Mathematics 106 and approximately half of Mathematics 107.

**Mathematics 109H: Honors Accelerated Calculus II (5-7 cr)**

Prereq: By invitation only; Math 108H.

This is an accelerated calculus course that covers approximately half of Mathematics 107 and all of Mathematics 208.

**Mathematics 203: Contemporary Mathematics (3 cr)**

[IS]

Prereq: Sophomore standing and removal of all entrance deficiencies in mathematics. *Not open to students with credit or concurrent enrollment in MATH 104, 105, 106, or STAT 218.*

Applications of quantitative reasoning and methods to problems and decision making in the areas of management, statistics, and social choice. Includes networks, critical paths, linear programming, sampling, central tendency, inference, voting methods, power index, game theory, and fair division problems.

**Mathematics 208: Analytic Geometry and Calculus III (4 cr)**

Prereq: A grade of P, C or better in Mathematics 107. (A beginning

freshman should consult his or her adviser before registering.) Vectors, lines, planes, quadratic surfaces, functions of several variables, partial differentiation, maximum-minimum, Lagrange multipliers, multiple integration, vector fields, path integrals, Stoke's Theorem, Gauss's Theorem and applications.

**Mathematics 208H: Analytic Geometry and Calculus III (4 cr)**

Prereq: Good standing in the University Honors Program or by invitation.  
For course description, see Math 208.

**Mechanical Engineering 130: Introduction to CAD (2 cr)**

Prereq: Mechanical Engineering 100 for mechanical engineering students; none for others.

This course covers the principles and accepted practices of geometric design. Students will learn to create two and three-dimensional models for mechanical systems using computer-aided design (CAD) software. Engineering design practices such as specifications, dimensioning and tolerancing will be covered.

**Mechanized Systems Management 109: Physical Principles in Agriculture (4 cr)**

Prereq: Mathematics 101 or 103 with a grade of C or better completed within the last 11 months; or, placement in Mathematics 102 or 104 (or higher) within the last 11 months.

*Students cannot receive credit for both Mechanized Systems Management 109 and a first course in physics.*

This course provides a working knowledge of the basic terminology and relationships of engineering and physical principles and applies these fundamental principles to the analysis and solution of problems in agriculture. It may be used to replace an elementary course in physics as a prerequisite for subsequent courses in mechanized systems management.

**Mechanized Systems Management 162: Equipment Systems Management (2 cr)**

Prereq: Mathematics 101 or 103 and parallel Mechanized Systems Management 109  
Fundamentals for managing systems of equipment related to agricultural

production, handling and processing systems. Productivity, cost estimation and equipment matching will be emphasized.

**Meteorology 100: Severe and Unusual Weather (3 cr)**

Prereq: MATH 101 or equivalent.  
This course is designed for non-Meteorology majors. Meteorology basics to help understand the wide variety of unusual weather events occurring on earth. Cold season and warm season unusual weather events will be examined (for example, ice storms, blizzards, tornadoes, hurricanes, etc.). Weather hazards that occur at any time of the year, such as flooding and droughts are also reviewed.

**Meteorology 200: Weather and Climate (4 cr)**

Prereq: Mathematics 101 or equivalent  
Physical behavior of the atmosphere; elements of weather climate and their distribution over the earth. Weather map analysis and forecasting. Atmospheric circulation, precipitation processes, severe weather, air pollution, and the use of weather radar. Concepts of weather forecasting.

**Music 101: Introduction to Music (3 cr)**

Lec 3.  
Prereq: Music major or minor; parallel Music 131, 165 and 165A, 165H, and Library 110.

*Open to music majors and minors only.*

Introduction to the degree programs in music and resources for the study of music at the university level. Historical, social, and stylistic views of music in western and non-western cultures. Significance of music in cultural history, and the understanding of music as aesthetic expression. How to listen to and appreciate the human and cultural values of music.

**Music 131: Keyboard Skills I (1 cr) (Fall semester only)**

Prereq: Parallel Music 101, 165 and 165A.

*Required for music majors and minors.*

Guided practice in the use of the piano for the application of theoretical concepts including the development of proper keyboard technique and music reading skills. Introduction to aural dictation skills.

**Music 132: Keyboard/Aural Skills II (1 cr) (Spring semester only)**

Prereq: Music 131; Parallel Music 166 and 166A.

*Required for music majors.*

Continued guided practice in the use of the piano for the application of theoretical concepts including the development of proper keyboard technique and music reading skills. Continued guided practice in aural dictation.

**Music 165: Musicianship I (2 cr)**

Prereq: Permission.  
Parallel with Music 131, 144, 165A, and 278. *Required for music majors and minors.*

Beginning study of the fundamentals of music. Includes beginning theory (notation, rhythm and meter, pitch and melody, harmony and form), overview of historical style periods as well as music of other cultures.

**Music 165A: Musicianship I Lab (1 cr)**

Parallel with Music 101, 131, and 165.  
Intensive drill in skills (ear training, sight singing, and keyboard) to accompany Music 165

**Music 165H: Honors: Musicianship (3 cr)**

Prereq: Good standing in the University Honors Program or by permission.  
Parallel: Music 101 and 131.

**Music 166: Musicianship II (2 cr)**

Prereq: Music 165 or permission.  
Parallel with Music 166A.  
Continued study of diatonic harmony; introduction to modulation; species counterpoint; introduction to form and analysis (compositional processes and small forms). Must be taken concurrently with Music 166A.

**Music 166A: Musicianship II Lab (1 cr)**

Parallel with Music 166.  
Intensive drill in skills (ear training, sight singing, and keyboard) to accompany Music 166.

**Music 189H: University Honors Seminar (3 cr)**

Prereq: Good standing in the University Honors Program or by invitation.

*University Honors Seminar 189H is required of all students in the University Honors Program.*

This class will work to develop a shared language about music from a listener's perspective, in order to be able to talk intelligently about music's means and possibilities for formal and expressive content. Thus prepared, we will examine a number of encounters of the Western European classical tradition with popular music and with non-Western music. The music section is open to all first year students in the Honors Program with a strong love for or curiosity about music. No previous musical experience is required.

**Music Recitals 068: Recital Attendance (0 cr)**

*Required for all majors and minors in music.*

**Music 241: All-Collegiate Choir (1 cr)**

*Open to all students. No audition is required. Off-campus performance as approved by the instructor and the Director of the School of Music.*

Freshmen are invited to participate in the All Collegiate Choir, which performs a variety of large-scale works, usually with the University Orchestra. Course not open to music majors for credit toward degree.

**Music 242: Concert Choir (1 cr)**

Prereq: Open only freshman music majors and music minors; others with conductor's permission. Repertoire chosen from the standard literature. Build good sight reading and singing habits.

**Music 243: Varsity Chorus (1 cr)**

Freshman tenors and basses are invited to audition for Varsity Chorus. The Chorus is a performance unit and it sings a variety of literature from the finest of serious works to music of a more recreational nature.

**Music 245: University Singers (1 cr)**

Freshmen are invited to audition for the University Singers, a mixed chorus which performs masterpieces of choral literature with and without

accompaniment. Sight-singing and aural skills are required.

**Music 246: University Chorale (1 cr)**

Freshman sopranos and altos are invited to audition for the University Chorale. A variety of literature is performed, from serious works to music of a more recreational nature.

**Music 247: Symphony Orchestra (1 cr)**

Freshman students who play stringed instruments are invited to contact the conductor, Tyler White, for Symphony Orchestra auditions. Wind, brass, and percussion players are assigned to the orchestra by the studio teachers of those instruments. The Orchestra presents several concerts each year.

**Music 248A: Wind Ensemble (1 cr)**

The Wind Ensemble is the most selective band and performs the most difficult repertoire. It consists mostly of music majors, but others may audition as well.

**Music 248E: Marching Band (1 cr) (Fall semester only)**

Freshman instrumentalists are welcome to audition for Marching Band; however, everyone must make arrangements to audition before June 30. Rehearsals are planned for 7:30 a.m. daily in order to avoid conflicts with other classes. Non-music majors are encouraged to audition.

**Music 250: Jazz Ensemble (1 cr)**

Prereq: Open by audition or permission of the Director of Jazz Activities. *Auditions held the weekend before each semester. Performances are held on and off campus as approved by the Director of Jazz Activities and the Director of the School of Music.*

**Music 276G: The Music Experience (3 cr)**

Through an in-depth analysis of chosen, musical masterworks and through an exploration of the process of making music, this course attempts to teach the non-musician how to recognize and appreciate quality in music and how to listen to and understand a piece of music.

**Music 280: World Music (3 cr)**

The course is an introduction to basic ethnomusicological terms and

techniques, including the distinction between folk, pop, and art music. The first half of the class will study traditional folk music of Europe, Africa, and America. The second portion of the class will study the art musics of the Near East, India, Indonesia, and China- Japan.

**Music 287: The History of Rock Music (3 cr, max 3)**

Prereq: Sophomore standing. Survey of the history of rock music including its antecedents in Rhythm & Blues and Country. Two areas: a musical focus on musical characteristics and evolving musical styles, and a consideration of the sociopolitical impact rock music has had on late 20<sup>th</sup> Century life.

**Music 387: History of American Jazz (3 cr)**

Prereq: Sophomore standing. Survey of the development of American jazz music from the late 19<sup>th</sup> century to the present, with emphasis on Black ethnic origins and the stylistic idioms of individual performers.

**Natural Resources 101: Forestry and Natural Resources Orientation (1 cr)**

Prereq: Freshman, first-year College of Agricultural Sciences and Natural Resources, (CASNR) or transferring student with a major in CASNR.

*P/N only*

This course will provide an opportunity for pre-forestry and natural resources students to obtain an overview of courses, options, schools, careers, employment opportunities, concepts and future trends in the area of natural resources.

**Natural Resources 103: Food, Agriculture, and Natural Resource Systems (3 cr)**

Cross-listed with Agricultural Sciences 103.

Students will study agriculture and natural resource topics from the perspectives of the natural resource base, energy budget, the environment, and economic and societal aspects. Case studies will address food production and processing systems plus other selected agroecological systems for their economic viability, ecological soundness, social responsibility, and scientific appropriateness.

**Natural Resources 108: Earth's Natural Resource Systems Laboratory (3 cr)**

Introduction to the Earth's natural resource systems. Interactions between the geosphere (solid earth) and the hydrosphere. The atmosphere and biosphere over many different spatial and temporal scales, and role of humans as part of the system.

**Natural Resources 170: Introduction to Great Plains Studies (3 cr)**

(Fall semester only)  
Cross-listed with Anthropology, Geography, Great Plains Studies, Sociology 170.  
*Required for Great Plains Studies majors and minors.*  
An interdisciplinary introductory course, this will include the study of the natural environment, social environment, human heritage, arts, and humanities of the Great Plains.

**Great Plains Studies 170: Introduction to Great Plains Studies (3 cr)**

(Fall semester only)  
Cross-listed with Anthropology, Geography, Natural Resources, Sociology 170. *Required for Great Plains Studies majors and minors.*  
An interdisciplinary introductory course, this will include the study of the natural environment, social environment, human heritage, arts, and humanities of the Great Plains.

**Natural Resources 212: Landscape Plants I (3 cr)**

Cross-listed with Horticulture 212.  
Prereq: Horticulture 130.  
*Several required off campus field trips will be scheduled for Saturdays. Several required off campus field trips will be scheduled for Saturdays.*  
Identification using botanical and common names for herbaceous annuals, perennials, grasses, ground covers, vines, trees, and shrubs commonly found in Great Plains gardens, parks, and landscapes is stressed through field visits.

**Naval Science 100: Naval Orientation (0 cr)**

Naval Orientation requires two hours participation each Thursday afternoon. It is a continuing program taken each semester by all midshipmen, offering an introduction to the various aspects of Navy and Marine Corps life. Successful completion of this series

of laboratory courses is required for commissioning.

**Naval Science 111: Introduction to Naval Science (2 cr)**

(Fall semester only)  
Prereq: None, open to all university students, whether affiliated with NROTC or not.  
This course is a general introduction to seapower and the naval service. The instruction places particular emphasis on the mission, organization, regulations, and broad warfare components of the Navy and Marine Corps, and examines the function of the naval services as they relate to national policies and strategies.

**Nutrition and Health Sciences 100: Nutrition, Exercise & Health (3 cr)**

Application of theory related to eliminating personal health risk factors, achieving physical fitness, managing stress, and using leisure wisely.

**Nutrition 150: Foundations in Nutrition and Health Promotion (1cr)**

*Pass/No Pass only.*  
Philosophy and goals of academic programs curricula, certifications, career opportunities and graduate programs.

**Nutrition and Health Sciences 131: The Science of Food (3 cr)**

Lec 3.  
Cross-listed with Chemistry, Food Science and Technology 131.  
This course is designed as a basic and applied science, general liberal education course emphasizing general scientific concepts in biology, chemistry, and physics using food as a model. Students will learn what food is, from its chemical and nutritional perspectives, and the fate of food from when it leaves the farm to when it becomes a part of the individual. The course should assist students in making intelligent decisions about many food related controversial issues (e.g., food irradiation, food additives, health foods).

**Philosophy 101: Introduction to Philosophy (3 cr)**

This course introduces the students to some of the main issues in philosophy, using selections from the classic works of philosophy, as well as some present day discussions. Topics discussed often include: the nature and sources of human knowledge,

the existence of God, morality, and the nature of mind and body. All classes include opportunities for discussion.

**Philosophy 106: Philosophy and Current Issues (3 cr)**

A critical survey of current issues and the role of philosophy in attempts to resolve them. Recent topics have included: sexual morality, pornography and the law, capital punishment, sexism and racism, extraordinary treatment for the terminally ill, abortion, church and state, and war and disarmament.

**Philosophy 110: Introduction to Logic and Critical Thinking (3 cr)**

An introduction to the principles of correct reasoning and their application. The emphasis is on improving the skills of thinking and reading critically, analyzing and evaluating arguments objectively, and constructing sound arguments based on relevant evidence.

**Philosophy 116: Philosophy and Religious Belief (3 cr)**

An introduction to philosophical issues about the nature and justification of religious belief. These issues include the conception of God in Judaism and Christianity; the role of faith, reason, and religious experience in religious belief; the traditional arguments for the existence of God; the problem of evil; the idea of immortality; the relations between religion and science and religion and morality.

**Philosophy 211: Introduction to Modern Logic (3 cr)**

[IS]  
Methods of deductive thinking, with applications to deductive inferences in science and everyday life. Emphasis on applications of logic in other areas such as mathematics and morality.

**Philosophy 213: Medical Ethics: (3 cr)**

[IS]  
Philosophical study of moral problems in modern medicine, exploring such issues as the allocation of scarce medical resources, patients rights, research on human subjects, abortion, the care of seriously impaired newborns, and socialized medicine and the right to health care.

**Philosophy 231: History of Philosophy (Ancient) (3 cr)**  
(Fall semester only)

The beginnings of Greek philosophy: the pre-Socratics and the systems of Plato and Aristotle with emphasis on historical connections and the critical interpretation of texts.

**Philosophy 265: Philosophy of Religion (3 cr)**

Introduction to the philosophical understanding of religion. Includes a number of views on the nature of God, on the possibility of knowledge of God's existence through either argumentation or religious experience, and on the relation between religion and morality.

**Physics 115: Descriptive Physics (3 cr)**

*Recommended for all students wanting a nonmathematical look at basic discoveries of physics.*

A qualitative approach to physics for the non-science major which emphasizes concepts used to understand the everyday physical world. Topics covered include Newton's description of motion and forces, the atomic view of matter, kinds and transformations of energy, the nature of electricity and magnetism, sound and light waves, and subatomic particles. Some topics will be selected according to student interest.

**Physics 141: Introductory General Physics (5 cr)**

Prereq: Mathematics 102 or equivalent. *Credit toward the degree may be earned in only one of: Physics 141, 141H, and 151.*

**Lab fee required.**

A two-semester course with laboratory that covers mechanics; heat; electricity and magnetism; light; the elements of wave motion; relativity; quantum mechanics; atomic, nuclear, and particle physics. The course is intended to be a general introductory survey, useful to the student who is not going on in physics.

**Physics 142: Introductory General Physics (5 cr)**

Prereq: Physics 141 or 141H.

**Lab fee required.**

Continuation of Physics 141.

**Physics 151: Elements of Physics (4 cr)**

Prereq: Mathematics 102 or equivalent high school preparation.

*Credit toward the degree may be earned in only one of: Physics 141, 141H, and 151.*

A one-semester course, without laboratory, in elementary physics. Emphasis is placed on understanding our physical environment through application of principles of mechanics, heat, sound, electricity, and light.

**Physics 201H: Honors: Modern Topics in Physics and Astronomy (1 cr)**

This course is designed to give prospective science majors an introduction to physics and acquaint them with the general possibilities for careers in science. Each week a topic is presented by a different faculty member. Topics include problem solving in physics, Baloney Detection, laser-lab, and an overview of typical career paths for physicists.

**Physics 211: General Physics (4 cr)**

Lect 3, rec 1.

Prereq: One year high school physics or Physics 141 or 141H or 151 or permission; Mathematics 106 or parallel.

This is a calculus-based course for students in engineering and the physical sciences. Mechanics, fluids, wave motion, and heat. Ask NSE Adviser about taking 211H.

**Physics 221: General Physics Laboratory I (1 cr) Lab 3**

Prereq: Physics 211 or parallel; or permission.

*For students who desire a lab to accompany Physics 211. Lab fee required.*

Experiments in mechanics, heat, and wave motion.

**Physics 222: General Physics Laboratory (1cr) Lab 3**

Prereq: Physics 212 or parallel. *Lab fee required.*

Laboratory experiments in mechanics, electromagnetism, and optics.

**Physics 260: Liberal Arts Physics: Matter and Motion (3 cr)**

Lec 3.

Prereq: 2 yrs high school algebra. A course for non-science majors at the mathematical level of high school algebra.

The topics of mechanics, heat, gravitation, structure of the universe are discussed in a historical context and in relationship to the intellectual development of humankind.

**Physics 261: Liberal Arts Physics: Atoms and Fields (3 cr)**

Lec 3.

Prereq: 2 yrs high school algebra.

A course for non-science majors at a mathematical level of high school algebra. The topics of atomic structure of matter, states of matter, waves, light are discussed in a historical context and in relationship to the intellectual development of humankind. Practical consequences of the properties of matter and physical phenomena.

**Political Science 100: Power and Politics in America (3 cr)**

An introduction to American government and politics for freshmen and sophomores. It is required for political science majors. Political Science 100 is a survey of the organization and processes of national government in the United States. Traditional elements of structure such as the Presidency, Congress, and courts are studied, as well as current issues.

**Political Science 104: Comparative Politics (3 cr)**

A description and analysis of the principal types of modern political systems, including types of democracies and dictatorships found in Western systems, Eastern systems, and the Third World. Occasional comparison will be made with American institutions and political processes. Deals both with structures and major policy problems confronting these political systems: the policies of education, human rights, demands for regional autonomy, ethnic conflict and diversity, political violence, demand for welfare services, crises in agriculture, and other topics of relevance.

**Political Science 105: American Ways (3 cr)**

Prereq: Open to freshmen only. Not open to students with credit in History 201 or 202 or Political Science 100.

This course will develop a historical perspective on current American political problems. The basic theme will be the peculiar American relationship to questions of scarcity and how our political institutions have been shaped by those questions.

**Political Science 108: Political Ideas (3 cr)**

An introduction to the major political concepts and controversies that have developed in the Western world. Topics to be covered include liberty, equality, democracy, human nature, among others. The readings will come from the leading political theorists, past and present.

**Political Science 160: International Relations (3 cr)**

How and why states act as they do in their contemporary international relations. Continuing factors, such as power, war, ideology and governmental organizations, and recently emerging influences, including supranational organizations, multinational corporations and natural resource allocation are analyzed. Diverse approaches and theories are examined.

**Political Science 171: Introduction to East Asian Civilization (3 cr)**

Cross-listed with History 181.

A survey of the traditional cultures and modern history of China and Japan. Emphasis is on political systems, intellectual and religious history, and cultural development.

**Political Science 189H: University Honors Seminar (3 cr)**

(Fall semester only)

Prereq: Admission to the University Honors Program or by invitation. University Honors Seminar 189H is required of all students in the University Honors Program. An examination of current issues in American politics, including big government, tax cuts, media power and bias, terrorism, threats to civil liberties, and the war in Iraq.

**Political Science 210: Bureaucracy & America (3 cr)**

Introductory survey to the administrative arm of American national, state, and local government. Bureaucracy has become so important to the functioning of the federal system it has been termed the "fourth branch of government." Bureaucracy's role as a political institution of the first order not just as an implementer of policy. Bureaucratic power, structure, and democratic control.

**Political Science 221: Politics in State and Local Governments (3 cr)**

Broad introduction to the political structure and operations of state and

local governments. Role and power of state and local governments; government institutions; political parties and interest groups; public policy; state constitutions.

**Political Science 230: Elections, Political Parties, and Special Interests (3 cr)**

A review of the relationships among political parties, interest groups, and recent campaign techniques in the electoral process.

**Political Science 232: Public Issues in America (3 cr)**

An examination of the major public issues in American politics. Issues covered will include, but not be limited to, the following: government spending, civil rights; welfare and health care; poverty; education; urban problems; crime, violence and repression; defense policy; agricultural policy; environment/energy policy.

**Political Science 238: Blacks and the American Political System (3 cr)**

Cross-listed as Ethnic Studies 238. Role of the Blacks in the American political system, with emphasis on strategies used to gain political power and influence decision makers; problems faced in the southern and urban political settings.

**Political Science 261: Conflict and Conflict Resolution (3 cr)**

Cross-listed with Anthropology, Psychology, Sociology 261. Introduction to the study of the biological, economic, political-historical, and cultural bases of war and group conflict.

**Psychology 100: Career Planning for Psychology Majors (1 cr)**

*P/N only.*

*Students should take this course as early in their studies as possible, even if they have not taken Psychology 181. This course does not apply to the psychology major.*

A survey of careers frequently sought by psychology majors, and recommendations for course work and experience for attaining students' career goals. Other topics include departmental, college, and university resources of value to students' educational and career objectives, and preparation for graduate study in psychology and related fields.

**Psychology 181: Introduction to Psychology (4 cr)**

This course surveys a broad range of topics in psychology, including the following: learning, motivation, emotion, personality, attitudes, human development, sex differences, clinical strategies, perception, and physiological mechanisms underlying behavior. The course will be offered with two different teaching methods: self-paced mastery (PSI) and traditional lecture. The self-paced system uses 15 repeatable unit tests whereas the traditional lecture/discussion format uses two lecture meetings and one discussion class (recitation) each week. Quizzes occur at each lecture and at alternate discussion classes.

**Psychology 263: Introduction to Cognitive Process (3 cr)**

Prereq: Psychology 181.

An introduction to the psychological processes involved in pattern recognition, memory, human learning, problem solving, language development, verbal communication, and decision making, as viewed from an information processing standpoint.

**Psychology 268: Learning and Motivation (3 cr)**

Prereq: Psychology 181 or equivalent.

An introduction to processes of instrumental and classical conditioning in animals and humans, and to theories of and research on motivation.

**Psychology 287: The Psychology of Personality (3 cr)**

Prereq: Psychology 181 or equivalent.

Introductory study of the factors influencing personality and its development; the dynamics of personality adjustment.

**Psychology 288: The Psychology of Social Behavior (3 cr)**

Prereq: Psychology 181 or equivalent.

Social factors influencing the values, attitudes, and behavior of the individual, including the study of language, propaganda leadership, and group identifications.

**Psychology 289: Developmental Psychology (3 cr)**

Prereq: Psychology 181 or equivalent. *Not open to students*

*with credit in Educational Psychology 261.*

Developmental approaches to human behavior from conception to senescence. Theories, methods, and results of research.

**Religious Studies 150: Explaining Religion (3 cr)**

Introduction to religion as an academic subject. Examines religion in terms of four interconnected elements: myth, ritual, transformative experience, and ethics. Representative materials drawn from different religions and cultures, including both western and non-western traditions.

**Religious Studies 182: Alpha Learning Community Freshman Seminar (3 cr)**

Topic varies.

An exploration of the dynamic role of religion in American culture and society. Using a wide range of case studies, this course will examine the ways that religious beliefs, practices and institutions have shaped the lives of Americans. Possible topics include the Puritan quest for separation of church and state, varieties of Christianity, New Religious Movements (NRMs), communal utopias, the Waco debacle and religion in popular culture (e.g., "The Simpsons"). By the end of the course students should have a critical appreciation for the vital complex role that religion plays in America.

**Religious Studies 181: Judaism, Christianity, and Islam (3cr)**

A comparative study of the three great monotheistic faiths, from their historic beginnings to their present-day manifestations.

**Russian 101: Beginning Russian I (5 cr)**

(Fall semester only)

The main emphasis is on development of comprehension of everyday written and spoken Russian, supplemented by practice with authentic Russian materials and electronic format interactive exercises in the language laboratory.

**Russian 102: Beginning Russian II (5 cr)**

(Spring semester only)

Prereq: Russian 101 or equivalent. Continuation of the study of everyday spoken and written language, Russian culture and its institutions. Interactive cultural

information materials are used in the Language Laboratory.

**Russian 201: Second-Year Russian I (3 cr)**

(Fall semester only)

Prereq: Russian 102 or equivalent. Intensive and extensive reading of moderately difficult Russian prose, review of grammar, and conversational exercises based on the texts.

**Russian 202: Second-Year Russian II (3 cr)**

Prereq: Russian 201 or equivalent.

Continuation of Russian 201.

Reading of more difficult text.

**Russian 203: Composition of Conversation I (3 cr)**

Prereq: Russian 102.

This course enhances the ability to speak and write in Russian. Russian 203 is recommended for those who plan to study abroad or travel.

**Russian 204: Composition of Conversation II (3 cr)**

Prereq: Russian 203 or equivalent.

Continuation of Russian 203.

Recommended for study abroad.

**Social Work 100: Social Work and Social Welfare (3 cr)**

(Offered at UNO only)

This course is designed for students who want to learn about social welfare and to explore a possible major in social work. The students examine historical and current issues in social welfare, social services, and the social work profession. The course focuses on values, beliefs, and goals of social services and social work and provides an historical perspective for present activities.

**Social Work 150: Social Work and Civic Engagement (3cr)** (Offered at UNO only)

Prereq: Social Work 1000.

This course is designed to acquaint students with the social work profession, professional roles and functions, and social services delivery systems. As volunteers, students will have an opportunity to observe and participate in social services activities within Nebraska and Iowa communities incorporated with didactic experiences. Students will also have an opportunity to explore their vocational aptitude for social work practice via interactive encounters with clients and helping professionals.

**Sociology 101: Introduction to Sociology (3 cr)**

An introduction to the sociological study of human behavior, especially social organization, culture, and the social institutions that comprise society. Attention also will be given to social change, differentiation and inequality, and other social issues.

**Sociology 170: Introduction to Great Plains Studies (3 cr)**

(Fall semester only)

Cross-listed with Anthropology, Geography, Great Plains Studies, Natural Resources 170.

*Required for Great Plains Studies majors and minors.*

An interdisciplinary introductory course, this will include the study of the natural environment, social environment, human heritage, arts, and humanities of the Great Plains.

**Sociology 182: Alpha Learning Community Freshman Seminar (3 cr)**

*Requires enrollment in the Alpha Learning Community Program.*

*Sociology 183 is normally taken in the next term.*

An introduction to the sociological study of social and cultural diversity. Students will be actively engaged in identifying changing patterns of social inequalities related to race/ethnicity, class and gender and how individuals and groups influence these patterns.

**Sociology 189H: University Honors Seminar (2-3cr)**

Prereq: Admission to the University Honors Program or by invitation.

*University Honors Seminar 189H is required of all students in the University Honors Program. Topics vary.*

**Sociology 200: Women in Contemporary Society (3 cr)**

Interdisciplinary examination of the contributions of women to society and societal attitudes toward women. Roles and values of women in contemporary society. Lecture, discussion, special problems.

**Sociology 201: Social Problems (3 cr)**

Prereq: 3 hrs of sociology or related social sciences.

Treatment of the principal "problem" areas in contemporary society. Analysis of processes of disorganization in society, with attention to contrasting processes by

which social structures are formed and perpetuated.

**Sociology 209: Sociology of Crime (3 cr)**

Prereq: 3 hrs of sociology or related social sciences.

Introduction to the sociological approach to the study of crime, including the definition of crime, approaches to its measurement, and the major theories of crime. Social institutions intended to prevent or correct criminal behavior.

**Sociology 217: Nationality and Race Relations (ETHN 217) (3 cr)**

[IS]

Prereq: 3 hrs sociology or related social sciences.

Concepts of race and patterns of race distribution. Impact of European expansion on ethnic relations. Types of ethnic social systems. Patterns of ethnic social interaction. Problems of minorities. Types of ethnic policies.

**Sociology 225: Marriage and Family (3 cr)**

Prereq: 3 hrs of sociology or related social sciences.

Historic marriage and family patterns. American family, past and present. Husband-wife relationships. Parent-child relationships. Family-society relationships.

**Sociology 218: Chicanos in American Society (ETHN 218) (3 cr)**

Introduction to one of the largest minority groups in the United States-Chicanos (Mexican Americans). Primary consideration given to the history and present status of Chicanos with emphasis on their interaction with various social institutions.

**Soil Science 153: Soil Resources (4 cr)**

Prereq: High school chemistry or one semester college chemistry.

Emphasizes the basic characteristics of soils as they relate to plant growth. Consideration is also given to nonagricultural uses of soils and environmental considerations. The course is designed for freshman and sophomore students but would be appropriate also for upperclassmen having no previous formal instruction in soil science. Its purpose is to introduce the student to that part of the environment called the soil. Soil chemistry, physics, classification, mineralogy,

biology, and fertility of soils are discussed. Soil management practices as they relate to the use and conservation of soils are introduced. Information gained in this course is basic to courses in irrigation management, land use planning, farm management, and crop production in all courses in soil science.

**Agronomy 153: Soil Resources (4 cr)**

Cross-listed with Soil Science 153.

Prereq: High school chemistry or one semester college chemistry.

Emphasizes the basic characteristics of soils as they relate to plant growth. Consideration is also given to nonagricultural uses of soils and environmental considerations. The course is designed for freshman and sophomore students but would be appropriate also for upperclassmen having no previous formal instruction in soil science. Its purpose is to introduce the student to that part of the environment called the soil. Soil chemistry, physics, classification, mineralogy, biology, and fertility of soils are discussed. Soil management practices as they relate to the use and conservation of soils are introduced. Information gained in this course is basic to courses in irrigation management, land use planning, farm management, and crop production in all courses in soil science.

**Spanish 101: Beginning Spanish I (5 cr)**

The goal of these courses is to give students facility in understanding, speaking, reading, and writing Spanish within the limits of a vocabulary which can be acquired in a year of study. In order to supplement the classroom contact with the language, students are required to register for 1 hour of aural-oral practice each week in the language laboratory.

**Spanish 102: Beginning Spanish II (5 cr)**

Prereq: Spanish 101 or equivalent score on Spanish Language Placement Exam.  
Continuation of Spanish 101.

**Spanish 201: Second-Year Spanish I (3 cr)**

Prereq: Spanish 102 or equivalent score on Spanish Language Placement Exam.

These classes are a review of the minimum essentials of Spanish grammar. A language laboratory is available for aural-oral practice.

**Spanish 202: Second-Year Spanish II (3 cr)**

Prereq: Spanish 201 or equivalent score on Spanish Language Placement Exam.  
Continuation of Spanish 201.  
Reading of more difficult texts.

**Spanish 203: Intensive Conversation (3 cr)**

Prereq: Spanish 202 or equivalent score on Spanish Language Placement Exam.  
This course is designed to give students an opportunity to improve their ability to speak the language. Spanish 203 is required of all majors and is recommended for those who plan to travel or study abroad.

**Spanish 204: Intensive Writing (3 cr)**

Prereq: Spanish 202 or equivalent score on Spanish Language Placement Exam.  
Focus on achievement of communicative proficiency so students learn to express their own ideas and experiences in a coherent manner. Special emphasis on thematic content, organizational skills and self-editing.

**Spanish 210: Accelerated Second Year Spanish (6 cr)**

Prereq: Spanish 102 or equivalent score on Spanish Language Placement Exam and departmental permission.  
This course covers the same material as Spanish 201-202 and counts as 201-202 in satisfying the liberal education requirements.

**Spanish 300: Advanced Writing and Reading for Comprehension (6 cr)**

Prereq: Spanish 203 and 204; or equivalent.  
An advanced language course to train students to read Spanish texts (primarily short stories) and to refine skills in conversation and writing. A review of difficult grammar points is included. Class discussion, oral presentations, quizzes, examinations, compositions. Combines Spanish 303 and 304.

**Spanish 303: Advanced Reading for Comprehension (3 cr)**

Prereq: Spanish 203 and 204, or equivalent.  
Introduction to literary texts and to the practice of reading for comprehension and interpretation. Students write short summaries of texts selected from Spanish and Spanish American Literary works.

**Spanish 304: Advanced Writing (3 cr)**

Prereq: Spanish 203 and 204, or equivalent.

Develops writing skills by concentrating on techniques for writing term papers, such as organizing ideas, structuring arguments and conducting bibliographic searches.

**Special Education 150: Communication Processes and Disorders (3 cr)**

A useful course for teachers, special educators, rehabilitation workers, and others interested in communication problems. Provides an overview of the identification, development, and remediation of speech, language, and hearing problems in children and adults. Observation of actual therapy is part of the course. Required course for speech pathology and audiology majors.

**Special Education 201: Introduction to Special Education (3 cr)**

An introduction to basic concepts related to the education of exceptional learners. Historical factors, legislative statutes, and instructional models are presented. Speech-Language Pathology and Audiology

**Speech Pathology 150: Communication Processes and Disorders (3 cr)**

Introduction to the speech, language, and hearing problems of children and adults. Identification and understanding of different types of communication disorders; appropriate referrals; general orientation to the field of speech-language pathology and audiology. Normal speech and language development. Clinical observations may be required.

**Statistics 218: Introduction to Statistics (3 cr)**

Prereq: MATH 100 and 101, or 102 or equivalent.

Topics in the practical application of statistical thinking to contemporary issues; collection and organization of data; probability distributions, statistical inference, estimation and hypothesis testing.

**Teaching, Learning and Teacher Education 101: Mechanical Drafting (3 cr)**

A basic introduction to the drafting skills required by modern industry. Emphasis is placed on the manual creation of engineering drawings. Students develop expertise in the use of drafting equipment, geometric construction, orthographic projection, dimensioning, and the application of ANSI standards.

**Teaching, Learning and Teacher Education 102: Architectural Drafting (3 cr)**

Prereq: Curriculum and Instruction 101.

This course provides students with a basic understanding of the teaching techniques associated with the offering of architectural drafting courses. The architectural drawing types covered include plot plans, elevation view, wall and floor sections, and roof construction. The construction of models is also discussed.

**Teaching, Learning and Teacher Education 109: Industrial Metals and Plastics Materials Processing (3 cr)**

A study of metals and plastics as related to industrial processing. Content focus will be on forming, molding, separating, and fabricating of industrial materials.

**Teaching, Learning and Teacher Education 210: Introduction to Industrial Education (3 cr)**

Certification, employment potential, terminology, publications, resources, and introduction to the trends, philosophies, methods, and approaches to contemporary industrial education programs.

**Textiles, Clothing and Design 121: Design Essentials (3 cr)**

Develop appreciation for beauty of line, form, color, and texture; judgment in the fine use of things pertaining to everyday living. Selecting, arranging, and evaluating many forms of art expression.

**Textiles, Clothing and Design 123: Clothing and Human Behavior (3 cr)**

A study of the analysis of social, cultural, aesthetic, and economic influences on clothing and human behavior.

**Textiles, Clothing, & Design 123H. Honors: Clothing and Human Behavior (3 cr)**

Lec 3.

Prereq: Good standing in the University Honors Program or by invitation.

For course description, see TXCD 123.

**Textiles, Clothing, and Design 140A: Visual Literacy Lab Analysis/Composition (2 cr)**

Cross-listed with Architecture, Art Theory & Practice, and Interior Design 140A.

Prereq: Textiles, Clothing, & Design major or minor.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on principles of 2-D and 3-D design, drafting and sketching, developing spatial awareness, and critical thinking.

**Textiles, Clothing, and Design 140B: Visual Literacy Lab Perceptual Drawing (2 cr)**

Cross-listed with Architecture, Art Theory & Practice, and Interior Design 140B.

Prereq: Textiles, Clothing, & Design major or minor.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on the perception of edges, spaces, relationships, form, light, and shadow, and critical thinking.

**Textiles, Clothing, and Design 141A: Visual Literacy Lab Color (2 cr)**

Cross-listed with Architecture, Art Theory & Practice, and Interior Design 141A.

Prereq: Textiles, Clothing, & Design major or minor.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on value/hue sequencing, use of color in 2-D composition, and impact on psychological/emotional information.

**Textiles, Clothing, and Design****141B: Visual Literacy Lab****Speculative Drawing (2 cr)**

Cross-listed with Architecture, Art Theory & Practice, and Interior Design 141B.

Prereq: Textiles, Clothing, & Design major or minor.

Development of creative and perceptual analytic skills through problem solving in drawing and design. Emphasis placed on value/hue sequencing, use of color in 2-D composition, and impact on psychological/emotional information.

**Textiles, Clothing, and Design 143:****Visual Literacy: Art & Design (2 cr)**

Cross-listed with Architecture, Art Theory & Practice, and Interior Design 143.

Prereq: Textiles, Clothing, & Design major or minor.

Lecture-style introduction to issues in visual literacy as they relate to art and design. Includes terminology and examination of current critical theory regarding visual literacy for use in later design courses and the understanding of contemporary culture.

**Theatre 112G: Introduction to Theatre (3 cr)**

A university-level introduction to the theatre as an art form. Study involves an overview of theatre production and an introduction to the theories and principles involved in stage direction, stage acting, and stage design. Course assignments require students to attend the semester's performances of the University Theatre as a means of developing a critical appreciation of the forms and the functions of the theatre in society.

**Theatre 114: Basic Acting I (3 cr)**

The course acquaints the student with the nature of acting and the basic principles of concentration, relaxation, imagination, communion, and action. Acting experiences such as game playing, improvisation, and scene work are provided in order that these principles may be incorporated into a working technique by which the student can interpret and project a character in a play. Students should expect to spend considerable preparation time in rehearsal for class scenes.

**Theatre 115: Basic Acting II (3 cr)**

Prereq: Theatre 114.

Continuation of Theatre 114, but with greater emphasis on the development of emotional control as it applies to scene work. Usually taken spring semester of freshman year.

**Theatre 120: Principles of Design for Theatre and Film (3 cr)**

(Spring Semester Only)

Prereq: Theatre major or permission. Introduction of the basic elements of design and the development of visual and perceptual skills. Students will develop an extensive portfolio of 2D and 3D visual projects through experimentation with various media.

**Theatre 189H: University Honors Seminar (3 cr)**

Prereq: Good standing in the University Honors Program or by invitation. *University Honors Seminar 189H is required of all students in the University Honors Program.*

Interdisciplinary seminar designed to accompany the University Honors Lecture; topics vary.

**Theatre 199: Independent Study (1-3 cr)**

Prereq: Permission.

Topics of study and assignments to be done are arranged between the student and instructor.

**Theatre 285: University Theatre I (1-2 cr)**

(Fall semester only)

Prereq: Permission only.

Intensive application of principles of interpretative and technical theatre practice. Credit assigned for participation in University Theatre productions on all levels.

**Theatre 286: University Theatre II (1-2 cr)**

(Spring semester only)

Prereq: Permission only.

Intensive application of principles of interpretative and technical theatre practice. Credit assigned for participation in University Theatre productions on all levels.

**Theatre 335: History of Theatre I (3 cr)**

Prereq: Theatre 112G.

Theatre from Ancient Greece through Elizabethan period.

**University Honors Program**

All freshmen admitted to the University Honors Program must take one of the following seminars: Music 189H (3 cr), English 189H (3 cr), Political Science 189H (3 cr), Sociology 189H (3cr), or History 189H (3 cr) In addition, students must register for the Honors class recitation section offered at 3:30 to 4:20 p.m. on Mondays. Ask your NSE adviser for details.

**Women's Studies 101:****Introduction to Women's Studies (3 cr)**

[IS]

Personal, interpersonal and institutional dimensions of women's experiences from a variety of perspectives.