

MEAD HIGH SCHOOL

COURSE DESCRIPTION CATALOG

2010-2011

Mead Graduation Requirements

Math- 30 credit hours (10 hours required in Algebra I and beginning with class of 2011, 10 hours required in geometry) The other 10 hours must be taken during student's junior year.

Science - 30 credit hours (10 hours required in physical science and 10 hours required in biology)

Social Studies- 30 credit hours (10 hours required in American History and 10 hours required in government)

English- 40 credit hours (30 hours required in Eng I, Eng II & Eng III)

Speech - 5 credit hours

Health - 5 credit hours

P.E. - 10 credit hours (5 hours required from PE 9)

Computer Applications - 5 credit hours

Elective Classes - 85 credit hours

Total Required - 240 credit hours

UNL ADMISSIONS STANDARDS

Below are the basic core entrance requirements for the University of Nebraska at Lincoln that is typical of many colleges or universities. Nebraska Wesleyan University is similar except NWU requires up to four years of Natural Science. Students should always check a college catalog or ask a college representative or the guidance counselor what high school classes are needed to prepare them for a particular college since admissions standards vary for each school.

UNL Admission Requirements

- 4 units of college preparatory English
- 4 units of math (including Algebra I, II, Geometry, and one that builds on algebra or geometry)
- 3 units of natural sciences (two from biology, chemistry, physics or earth sciences; one of these must include lab instruction. Students applying to the College of Engineering and Technology need two of the three units to include chemistry and physics.)
- 3 Units of Social Studies (history, government, geography, economics, psychology, or other social science courses.)
- 2 to 4 Units of foreign language. (UNL entrance requires 2, but graduating depends on the College enrolled in, e.g. College of Fine Arts requires 4 units to graduate from UNL. Students may be required to take a foreign language placement exam if they have less than four years of the same foreign language.)

UNL PERFORMANCE REQUIREMENTS

To qualify for admission, new freshmen must meet both the University's performance and high school core requirements for admission. Performance requirements are:

- Test scores: Achieve an ACT composite score of 20 or above, or an SAT score of 950 or above.

OR

- Class Rank: Rank in the top one-half of their high school class.

COLLEGE PLANNING FOR ATHLETES

National Collegiate Athletic Association (NCAA)

The NCAA Clearinghouse has launched a series of services to support prospective student-athletes are noted below. New Eligibility Rules went into effect in 2005-2006. Be sure to get on-line and read about the changes. Beginning in 2007 NCAA no longer accepts test scores listed on official high school transcripts.. ACT and/or SAT need to be sent directly from the testing agency to NCAA for student-athletes planning to enroll at Division I or Division II institutions.

Clearinghouse Customer Services

- Clearinghouse mailing address:

NCAA Clearinghouse

301 ACT Drive

Box 4043

Iowa City, IA 52243-4043

- Clearinghouse customer service hours:

8 a.m. to 5 p.m. Central Time Monday through Friday

- Toll Free phone numbers (domestic callers only):

Customer Service Line - 877/262-1492

- Fax Number: 319/337-1556

www.ncaaclearinghouse.net or www.ncaa.org

DISTANCE LEARNING & COLLEGE CREDIT COURSES

Distance Learning (DL) Courses may be offered from a variety of sources: Educational Service Unit (ESU) #2 or from a two-year or four-year college. Courses vary from year to year and are subject to change, so students must include an alternate class from the regular schedule. Generally, organizations request students register for Fall classes in the Spring, and for Spring classes in late fall, early Winter (generally, November to the first week of January). This is done in order for the organizations to determine whether enough interest has been generated to offer the class. Students can contact any two or four-year college to investigate the college's Distance Learning Programs. Some colleges offer telecourses or on-line courses. The most popular currently include: Southeast Community College, Metropolitan Community College, and Northeast Community College. However, students may take an on-line or telecourse from any college.

Attendance and discipline records are a factor in being accepted into these courses. Students who have sufficient credits for high school graduation, and are eager to earn college credit, may opt to take a class that does not grant high school credit. Students who decide to take courses for college credit work directly with the college. They are responsible for all fees, registration, enrollment, etc. required by the college. These college distance learning classes can be incorporated into the student's schedule; however, no high school credit will be granted unless it is a dual credit course. Students who choose to take college credit classes will want to ensure the classes will transfer to their college of choice. Most colleges have an articulation or transfer table on their website. Make sure to also contact the college about taking college credit classes. Students will also have to request transcripts from the college as well as the final transcript from the high school.

Environmental and Agricultural Systems

Advanced Agriculture Studies: Grade Level: 11-12 Credit: 5
Class size: 10 Elective Semester
Prerequisite: permission required from instructor as well as project approval/Ag. Literacy
This semester course does independent research on topics of personal interest. To be used as an opportunity for advanced study in any of the current pathways offered at the high school level.

Agricultural Literacy: Grade Level: 9 Credit: 10
Class size: 20 Elective Year
Prerequisite: None
This is an introduction agriculture course focused on learning and understanding all parts of the agricultural industry. Students will be exposed to agriculture principles that are currently being practiced within the surrounding community and Nebraska. This course is designed as a beginner course for further agricultural education courses. Topics covered are orientation to agriculture education, careers in agriculture, supervised agriculture experience programs, introduction to record keeping, natural resource management, soil and water conservation, fundamentals of leadership, introduction to the agriculture industry, fundamentals of agriculture mechanics, applied technology in agriculture, and agriculture relationships to the society.

Companion Animal: Grade Level: 10-12 Credit: 5
Class Size: 15 Elective Semester
Prerequisite: None Offered every other year
This class will distinguish the basis on which animals are classified as companion, and characterize the different species within the classification. Recognize the signs of normal and abnormal health and necessary management procedures to maintain the health of companion animals. Develop an understanding of the specialized nutritional habits and requirements of companion animals at different life stages. Recognize the role of genetics in reproduction, and the management care required to maximize reproductive efficiencies. Become aware and informed regarding legal aspects of companion animal ownership. Identify and research the required qualifications for employment in various companion animal careers.

Advanced Plant Science: Grade Level: 10-12 Credit: 5
Class Size: 15 Elective Semester
Prerequisite: Plant Science
This course allows students to apply knowledge from Plant Science. Students develop and hone skills within floral design, landscape design and maintenance, turf management, greenhouse production, gardening, agronomy, and other plant science areas; working in the greenhouse and with live plants as often as possible.

Plant Science: Grade Level: 10-12 Credit: 5
Class size: 15 Elective Semester
Prerequisite: None
This course is an introductory overview of the plant industry and skills needed for a career in this industry; including anatomy, physiology, nutritional requirements, propagation, soil science, and pest management. Students will use the greenhouse and live plants as often as possible for the course.

Leadership: Grade Level: 10-12 Credit: 5
Class size: 15 Elective Semester
Prerequisite: None
This course focuses on interpersonal skills, first focusing on self improvement, then relationships and teams, and finally service leadership. Students work in groups to develop team work and leadership skills. Teams will develop and implement a service learning project. This demanding course requires group discussion and participation.

Animal Science: Grade Level: 10-12 Credit 5
 Class size: 15 Elective Semester
 Prerequisite: None Offered every other year
 This course provides an overview of the animal science industry. It includes animal anatomy, physiology, management, and evaluation focusing on beef, swine, horses, sheep, goats, and poultry. This class allows students to develop skills within the livestock industry necessary for a career in animal science.

Natural Resources: Grade Level: 10-12 Credit: 5
 Class size: 15 Elective Semester
 Prerequisite: None
 This class will explore topics related to wildlife management including habitat destruction and preservation, sport hunting and fishing, endangered species, and wildlife management techniques as well as address history and government policies integral to wildlife conservation. During the semester, guest speakers will showcase careers related to wildlife management, and several wildlife species found in Nebraska will be highlighted.

Ag. Mechanics: Grade Level: 11-12 Credit: 5
 Class size: 7 Elective Semester
 This course is an introduction to several aspects of agricultural mechanics. Students will develop and understanding of shop safety and get basic introduction to welding, electricity, engines, and woods. Students will spend most of the course in the shop using a variety of tools, equipment, and materials.

ART

Drawing I & II: Grade Level: 9-12 Credit: 5/10
 Class size: 15 Elective Semester/Year
 Prerequisite: Drawing I needs to be taken before Drawing II 1st semester –Level I
 2nd semester-Level II
 In this area students have the opportunity to explore two and three dimensional aspects of drawing and to develop a personal power of expression. A variety of media will be used to stimulate thinking and to develop creativity in the use of the art elements and principles. This class is based on advanced techniques and skills.

Painting I & II: Grade Level: 9-12 Credit: 5/10
 Class size: 15 Elective Semester/Year
 Prerequisite: Painting I needs to be taken before Painting II 1st semester –Level I
 2nd semester-Level II
 In this class students will take the knowledge and skills learned in drawing and apply them to their painting productions. They will use their prior knowledge of the elements and principles of art when developing their paintings. Different medias of painting will include: acrylic, oil, and watercolor. This class is based on advanced techniques and skills. Note: paper and some canvas will be provided; some students may wish to purchase additional canvas for a few projects.

3-Dimensional I & II: Grade Level: 9-12 Credit: 5/10
 Class size: 10 Elective Semester/Year
 Prerequisite: 3-D I needs to be taken before 3-D II 1st semester –Level I
 2nd semester-Level II
 This course is designed to give students a concentrated study of the creation of functional and decorative pottery forms and awareness of three dimensional form. Areas of pottery production include hand building techniques: Coil pottery, Slab pottery, Pinch and Combination pottery. Students will also develop skills throwing on the potter’s wheel working up to more technical forms with a more personal style. This course allows students to work with the concept of three dimensional form and provides an understanding of basic sculptural theory.

COMPUTERS

Computer Applications I: Grade Level: 10 Credit: 5
Class size: 18 Required Semester
Prerequisite: Previous Keyboarding
Computer Applications I is a basic computer course intended to give students a basic understanding of work processing, spreadsheet, and presentation software using Microsoft Office 2000 Suite.

Desktop Publishing: Grade Level: 10-12 Credit: 5
Class size: 12 Elective Semester
Prerequisite: Comp. Apps I
Desktop publishing is composed of using a variety of techniques to access, apply and communicate information. Students will manipulate PageMaker, InDesign, PhotoShop, Story Design and Page Design to create, and present projects.

Web Design: Grade Level: 11-12 Credit: 5
Class size: 10 Elective Semester
Prerequisite: Computer Applications I
This is an introductory course in the design and development of Web pages. Since creating web pages involves an understanding of good principles of design, a strong knowledge of the tools used to create those pages, and the ability to gather audience appropriate information, the class will focus on three areas. The first will be an understanding of what goes into good page design, the second will be the ability to use various tools to make a useful, attractive Web page, and the third will be on an understanding of how to gather, organize, and display information for best results.

ENGLISH

British Literature: Grade Level: 11-12 Credit: 5
Class size: 15 Elective Semester
Prerequisite: English III
British Literature exposes students to important works by British authors. Readings include some translation from Old and Middle English: Beowulf and The Canterbury Tales. Modern English works include Macbeth/ Hamlet, Seventeenth Century poets, Restoration period essayists, poems from the Romantic and Victorian Ages, and short stories and poetry from the Modern Age. Students also get a sense of how the history of the nation affected the literature. Daily reading assignments are often lengthy and complex.

Creative Writing: Grade Level: 11 - 12 Credit: 10
Class size: 20 Elective Year
Prerequisite: English III
This class is designed to develop creative thinking and use of imagination which will be incorporated into written form. Students will be taught a variety of writing techniques which will help them improve their writing skills. The variety of writing assignments will be based on the needs, interests, and abilities of the individuals in the class. Proper mechanics, usage, and grammar, as well as computers use will be an integral part of the course. Focus will be on quality rather than on quantity. Students will be challenged to elevate their thinking levels and writing styles as well as learn to meet deadline requirements. Preparation for college, through writing, is a strong focus in this class.

English I: Grade Level: 9 Credit: 10
Class size: 25 Required Year
Prerequisite: 8th Grade English
English I is composed of four integrated components: grammar, usage, writing and literature. The conventions of standard English will be the focus of the course, enabling students to speak and write correctly. The literature covered in English I builds upon short stories, and introduction to Greek Mythology, and social issues presented in two novels. The writing focus is on persuasive writing.

<u>English II:</u>	Grade Level: 10	Credit: 10
Class size: 30	Required	Year
Prerequisite: English I		
English II will expand on the knowledge of correct usage and mechanics through review and written assignments. This course will be more literature based than English I. Short stories, drama, non-fiction, Greek mythology, and one novel will be read.		
<u>English III:</u>	Grade Level: 11	Credit: 10
Class size: 30	Required	Year
Prerequisite: English II		
The focus of English III is reading and writing. Several forms of literature will be read and discussed. American writers will receive the bulk of the attention. Students will be expected to expand on previous writing experience to compose thoughtful, coherent essays. The course will include at least one multi-page research paper.		
<u>Journalism :</u>	Grade Level: 11-12	Credit: 10
Class size: 12	Elective	Year
Prerequisite: application/approval		
Journalism's main goal is to produce a top-quality yearbook. Class members will be responsible for developing theme, designing pages, writing copy, taking photos, and advertising and sales. All of these will be developed through reading and writing assignments, and actual hands on projects. (Not counted as a high school English credit on transcripts for many colleges) Students must apply to take class.		
<u>Yearbook:</u>	Grade Level: 12	Credit: 10
Class size: 8	Elective	Year
Prerequisite: application/approval		
Students will plan and edit the yearbook. Knowledge of basic design will be expanded as will InDesign proficiency. (Not counted as a high school English credit on transcripts for many colleges) Students must apply.		
<u>Novels:</u>	Grade Level: 11-12	Credit: 5
Class size: 15	Elective	Semester
Prerequisite: None		
This course will focus on reading for comprehension, understanding, and enjoyment. It is also intended to improve students' ability to write about literature in traditional essays. Students can expect lengthy reading assignments on a daily basis, many of which will be self-administered.		
<u>Speech:</u>	Grade Level: 10	Credit: 5
Class size: 20	Required	Semester
Prerequisite: None		
Speech aims at building confidence and ability for public speaking. Class assignments will teach students the basics of public speaking, which will then be used in speeches ranging from one to eight minutes in length.		
<u>Composition I:</u>	Grade Level: 11-12	Credit: Dual Credit
Class size: min. 8		
Prerequisite: min. Eng. ACT score of 19	in conjunction with SECC (4.5 credits)	
Composition I is designed to develop writing skills. Students write short papers and essays based upon their personal experience and/or assigned readings. The course emphasizes the clear written expression of ideas and importance of organization, word choice, logic, and sentence construction. The process of planning, writing, revising, and editing essays for a particular audience is also emphasized.		

HUMAN SERVICES AND RESOURCES

Adult Living:

Class size: 19

Prerequisite: None

First semester deals with relationship literacy which includes the application of critical thinking, decision-making and problem solving skills to issues impacting adult relationships. Topics include communication, dating, marriage, etc. Second semester deals with financial literacy which provides students with the tools to take charge of their personal financial well-being and to make sound personal financial decisions. Units of study include budgeting, credit, insurance, savings and investments, home ownership, banking and taxes.

Grade Level: 11-12

Elective

Credit: 10

Year

Clothing & Textiles:

Class size: 10

Prerequisite: None

This class provides students with an understanding of the social, psychological and physiological aspects of clothing and textiles; fabric and apparel design; selection, construction, maintenance and alteration of textile products; and, exposure to careers related to clothing and fashion design/marketing. The students will be responsible to pay for the projects and supplies that they need for this class.

Grade Level: 10-12

Elective

Every other year course

Credit: 5

Semester

Food/Nutrition:

Class size: 16

Prerequisite: None

This class provides students with knowledge and skills about food preparation, with a strong emphasis on nutrition and nutritional analysis, balanced diets, and satisfying special dietary needs. It includes safety and sanitation, proper use of equipment, food processing, meal planning and preparation, current food issues, the role of food in the family and global society and the demonstration of teamwork skills.

Grade Level: 10-12

Elective

Credit: 10

Year

Food Sciences:

Class size: 10

Prerequisite: None

Food Science is a semester class that focuses on the study of the production, processing, preparation, evaluation, and utilization of food. It is based on various other areas of science such as chemistry, biology, physics, and psychology. We will be using scientific methods in laboratory experiments to help understand food. We will pay particular attention to food safety issues. (Fulfills science requirement for high school graduation, but will not count as science credit for most colleges.)

Grade Level: 10-12

Elective

Credit: 5

Semester

Life Skills:

Class size: 16

Prerequisite: None

This will include several of the subject matter areas in Family and Consumer Sciences, emphasizing basic principles and interrelationships among these areas as well as the reasoning processes needed to address concerns of individuals, families, and society. Students will experience how the concepts of communication, ethics, leadership and teamwork relate to the Human Services and Resources Career Field. Students will consider these concepts as applied to their multiple roles of family member, wage earner and citizens. Specific units include family, foods and nutrition, parenting/child development, and housing.

Grade Level: 9

Elective

Credit: 10

Year

Parenting:

Class size: 16

Prerequisite: None

This semester course is designed to teach students the importance of parenting. It will tackle many of the issues of parenting in our society such as appropriate discipline and safety. Special emphasis will be placed on the four areas of development. Special emphasis will be placed on current articles/events in parenting.

Grade Level: 10-12

Elective

Credit: 5

Semester

Childhood Development:

Class size: Grade Level: 10-12 Credit: 5
Prerequisite: Elective Semester

Emphasizes the social, emotional, physical and intellectual growth from the first year through the sixth year. Students will be required to do preplanned observations of children throughout the semester after being taught the fundamentals of child observations. Units will be grouped according to ages one to three and four to six. Activities with children will be planned and conducted by the students in the classroom. Special areas of study will be health and safety, problem situations for children, and careers relating to children.

FOREIGN LANGUAGES

Spanish I: Grade Level: 9-12 Credit: 10
Class size: 25 Elective Year

Prerequisite: None

Spanish I is an introduction to the simple structure of the Spanish language. Students will be taught the basic skills of language learning through listening, reading, speaking and writing in Spanish. Emphasis is also given to Hispanic Culture.

Spanish II: Grade Level: 10-12 Credit: 10
Class size: 25 Elective Year

Prerequisite: Spanish I

Spanish II will increase the students' listening, reading, and writing skills as well as expand the grammatical understanding of the language. It involves more advanced verb-study (including learning the past tense) and cultural information will be provided to further enhance the student's understanding of Hispanic culture.

Spanish III: Grade Level: 11-12 Credit: 10
Class size: Elective Year
Prerequisite: Spanish I, II

MATHEMATICS

Algebra I: Grade Level: 9 Credit: 10
Class size: 19 Required Year

Prerequisite: Pre-Algebra (8th grade)

This course continues algebra concepts as well as beginning the study of geometry and probability. It is designed to teach students to be successful mathematical problem solvers.

Geometry: Grade Level: 10 Credit: 10
Class size: 19 Required Year
Prerequisite: Algebra I

Students will develop their ability to construct formal, logical arguments and proofs in geometric settings and problems.

Algebra II Grade Level: 10-12 Credit: 10
Class size: 19 Required/Elective Year
Pre-requisite: Algebra I, Geometry

This discipline complements and expands the mathematical content and concepts of Algebra I and geometry. Students who master Algebra II will gain experience with algebraic solutions of problems in various content areas, including the solution of systems of quadratic equations, logarithmic and exponential functions, the binomial theorem, and the complex number system.

Pre-Calculus: Grade Level: 12 (dual credit) Credit: 5
Class size: 19 Elective Semester

Prerequisite: Algebra III/Geometry

Major areas of study include exponential decay and growth, translating functions, piecewise functions, polynomial equations, logarithms, and trigonometric functions. (Can be taken as a non-college credit class or as a college credit class)

Calculus: Grade Level: 12 (dual credit) Credit: 5
 Class size: 19 Elective Semester
 Prerequisite: Pre-Calculus
 Calculus includes review of the topics from algebra, trigonometry, and analytical geometry. Topics on limits, continuity, derivatives, integration and related areas are studied. (Can be taken as a non-college credit class or as a college credit class)

Consumer Math: Grade Level: 11-12 Credit: 5
 Class size: 19 Elective Semester
 Prerequisite: None
 Topics include personal finance such as income, record keeping, checkbooks, savings and charge accounts, budgets, insurances and investments, as well as business math as sales, marketing, production and services. (Not counted as a high school Math credit on transcripts for UNL)

Math for Technology I: Grade Level: 11-12 Credit: 10
 Class size: 10 Elective Year
 Prerequisite: Algebra I
 This course includes topics in algebra and geometry, charts and graphs, spread sheets and graphs, area, volume, and coordinate systems.

MUSIC

Band: Grade Level: 7-12 Credit: 10
 Class size: 40 Elective Year
 Prerequisite: Participation in 5/6th Band, 2 years of private lessons, resulting in the completion of two levels of method books; or passing a playing skills test.
 Band is offered as a performing instrumental music group. Marching band may perform in the fall. Sophomores, Juniors, and Seniors will have the opportunity to try out for All-State Band, as well as other honor bands. Small ensembles and soloists can perform for contests, and some concerts. Students will also perform in the Fall Concert, Christmas Concert, Pops Concert, Spring Concert, Graduation, Pep Band, ECNC Senior High Honor Band (selected students), and the District Music Contest.

Chorus: Grade Level: 9-12 Credit: 10
 Class size: 50 Elective Year
 Prerequisite: None
 Chorus is offered as a performing vocal music group. Sophomores, Juniors, and Seniors will have the opportunity to try out for All-State Choir, as well as other honor choirs. Small ensembles and soloists can perform for contests, and some concerts. Students will also perform in the Fall Concert, Christmas Concert, Pops Concert, Spring Concert, Graduation, ECNC Senior High Honor Choir (selected students), and the District Music Contest.

PHYSICAL EDUCATION/HEALTH

Advanced Physical Education: Grade Level: 10-12 Credit: 5
 Class size: 30 Elective Semester
 Prerequisite: None
 This course is designed so that all students regardless of ability will enjoy a fun and positive atmosphere learning and playing activities ranging from weight lifting, volleyball, badminton, table tennis, and many more group activities.

Health: Grade Level: 9 Credit: 5
 Class size: 30 Required Year
 Prerequisite: None
 Health is a required course that focuses on the health of individuals both physically, mentally, socially, and emotionally. Major unit topics include stress management, reproduction, physical fitness, nutrition, drugs, and STD's.

Ninth Grade Physical Education:

Grade Level: 9
Required

Credit: 5
Year

Class size: 30
Prerequisite: None

This course is designed so that all students regardless of ability will enjoy a fun and positive atmosphere learning and playing activities ranging from weight lifting, volleyball, badminton, table tennis, and many more group activities. This class meets twice a week first semester, and three times a week the second semester for a full year across from Health.

Weights:

Grade Level: 10-12
Elective

Credit: 10
Year

Class size: 24
Prerequisite: None

This course will stress weight training and other types of conditioning. The emphasis will be on weight training for athletic improvement. Stretching, rope jumping, running, plyometric activities, and other types of physical activity will be included in the course. Students who wish to take this course for a second year for credit must have teacher approval before being allowed to enroll.

SCIENCE COURSES

Biology:

Grade Level: 10
Required

Credit: 10
Year

Class size: 25
Prerequisite: Physical Science

Biology is a general course that studies the unique properties of living organisms and the diverse variety of life on the earth. Subject matter includes: Human and cellular biology, classification, heredity, microbiology, botany, zoology, anatomy, ecology, physiology, and molecular biology. Students will learn the proper use of the microscope and dissect nine to twelve different organisms.

Chemistry:

Grade Level: 11-12
Elective

Credit: 5/10
Semester/Year

Class size: 15
Prerequisite: Physical Science/Biology

Chemistry is the study of the properties of matter. Topics studied include scientific measurement, phases of matter, classification of matter, atomic structure, atomic models, periodic table of elements, chemical bonding, chemical names and formulas, the mole, chemical equations and reactions, and chemistry of life.

Human Genetics:

Grade Level: 11-12
Elective

Credit: 5
Semester

Class size: 10
Prerequisite: Biology

Human genetics will study the biology of the human condition and everything that affects it. This will include courses of gene effects, single gene defects, multiple gene defects, IQ, embryo manipulation, twins, cloning, and genetic engineering. Students will mate fruit flies to learn about gene interaction.

Marine Biology:

Grade Level: 10-12
Elective

Credit: 5
Semester

Class size: 25
Prerequisite: Biology

Marine Biology is an introductory course that describes the marine environment, diversity of life found there, and the ecology of the oceans. It will develop a broad conceptual framework for understanding how the geological, physical, and chemical aspects relate to marine life. Students will dissect about fifteen different organisms.

Physical Science:

Grade Level: 9
Required

Credit: 10
Year

Class size: 25
Prerequisite: None

Physical Science is the study of matter, energy, forces, and their relationship. Areas of study will include scientific measurement, motion and force, work, power and energy, waves, Earth's history and processes, and Earth's place in the universe.

Career Academy
Course Descriptions

Introduction to Health Careers/ Medical Terminology I (no prereq): The purpose of this class is to introduce student to the broad range of career opportunities in the health care field. Med. Term. I is an introduction to medical terms. Pronouncing, spelling and defining terms and common medical abbreviations will be included.

Medical Terminology II/First Aid (prereq-Med. Term. I): Continuation of Med. Term I. Terminology related to body systems and disorders. The class is intended to increase medical vocabulary; emphasis on anatomy, physiology and diseases. First Aid will teach emergency care and first aid developed by the American College of Emergency Physicians.

Basic Nursing Assistant (no prereq): Completion of this class meets the Nebraska Department of Health requirements for employment as a nursing assistant. Course includes classroom, nursing lab, and clinical experience in a health care facility.

Human Anatomy & Physiology (no prereq): Introduction to anatomy and physiology for students in biological, medical and health-related programs. Topics covered include chemical, cellular and tissue levels of organization; introduction to principle systems of the body; structure and function of the integumentary skeletal, muscular and nervous systems of the body.

Introduction to Business (no prereq): An introductory study and overview of the role of business in society as well as a discussion of the various disciplines of business, including an overview of business organization, management, marketing, human resource management, and finance. Vocabulary from business will be used to understand and interpret business news and information.

Introduction to Entrepreneurship (no prereq): The student will evaluate business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The will understand the role of entrepreneurial businesses in the United States and the impact on our national and global economy.

Introduction to Education (no prereq): Extensive overview of the various career opportunities in the educational field. Learning and teaching strategies will be reviewed and discussed, as well as some brief history and background on how the educational system has evolved.

Education Technology (prereq-Intro to Edu): Introduces students to the approaches, methods, and procedures for meaningfully incorporating computers, media and other technologies into teaching and learning in the K-12 classroom.

Introduction to Energy Operation (no prereq): Introduction to the history of electric and fluid power in the U.S. including deregulation. Private and public utilities are discussed as well as methods of commercial power generation including fossil fuels, nuclear power and renewable energy generation. Class includes overview of electrical transmission and distribution systems. System reliability and governance are covered.

Introduction to Early Childhood Development (no prereq): An overview of early childhood education, history, trends and the philosophies of various programs, diversity, inclusion, licensing standards, current legislation, professionalism and advocacy are examined.

EDUC2510 Fundamentals of Adolescent Development for Education (no prereq): Fundamental concepts and principles of human development with reference to cognitive and social/emotional development from late childhood to early adulthood. Biosocial forces which affect behavior and development in adolescents as they relate to educational practice.