

2016-2017 Ashland-Greenwood

High School Course Catalog

Descriptions for all courses offered by Ashland-Greenwood High School are included in this catalog. Those descriptions, along with other information provided in conjunction with each course description, are intended to assist students in determining which courses are most appropriate in order to meet personal, career, and post-secondary study needs. We are currently attempting to expand our offerings, so, this catalog is subject to change without notice.

Notice of Nondiscrimination

The Ashland-Greenwood Public School District does not discriminate on the basis of race, color, national origin, sex, disability, religion, age or other protected status in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following persons have been designated to handle inquiries regarding the non-discrimination policies:

Students: Building Principals, Ashland, NE 68003; HS: (402)-944-2114 or ELE: (402) 944-7083.

Employees and Others: Superintendent of Schools, 1225 Clay Street, Ashland, NE 68003. (402) 944-2128.

Complaints or concerns involving discrimination or needs for accommodation or access should be addressed to the appropriate Coordinator. For further information about anti-discrimination laws and regulations, or to file a complaint of discrimination with the Office for Civil Rights in the U.S. Department of Education (OCR), please contact the OCR at 8930 Ward Parkway, Suite 2037, Kansas City, Missouri 64114, (816) 268-0550 (voice), or (877) 521-2172 (telecommunications device for the deaf), or ocr.kansascity@ed.gov.



ASHLAND-GREENWOOD HIGH SCHOOL

2016-17 COURSE CATALOG

I. INTRODUCTION

Descriptions for courses offered by Ashland-Greenwood High School are included in this catalog. Those descriptions, along with other information provided in conjunction with each course description, are intended to assist students in determining which courses are most appropriate in order to meet personal, career, and post-secondary study needs.

Please understand that this course catalog is comprehensive. Essentially, that means that not all courses listed will be offered every year. For a listing of which courses will be offered for the succeeding school year, please refer to your course registration materials.

Course descriptions that are included in this catalog are grouped by subject area (i.e. Fine Arts, Mathematics, etc.). All courses are worth five (5) high school credit hours per semester unless specifically noted otherwise.

All course descriptions follow the format indicated below; a discussion of format elements follows:

TITLE (course structure details)

description

PREREQUISITES:

"**TITLE**" --> Each course is assigned a descriptive title.

"(**course structure details**)" --> This information indicates whether the course is offered as a semester long or as a year long course.

"**PREREQUISITES:**" --> Enrollment in many classes requires students to have previously passed introductory coursework; those prerequisites are listed. In some instances, concurrent enrollment in a given class and its prerequisite will be allowed with administrator/instructor approval. Prerequisites requiring a certain grade level standing should be interpreted to mean that students desiring to take a given course must have reached at least the grade listed.

Minimum Performance Standards and Student Success

1. All students are expected to meet minimum performance standards in all classes.
2. Students who fail to meet those minimum standards on an initial effort will be provided opportunities to repeat the effort in a timely manner until minimum standards are met, with such work being done under the supervision of the affected teacher.
3. Such remediation work may take the form of re-doing an assignment or test in its entirety, correcting errors from an original assignment, or such other learning activities as are deemed appropriate by instructional staff.
4. Remediation efforts must be completed within one week of the original effort's return to the student.
5. Following successful completion of the assigned remediation work within the time frame allowed, students will be considered to have earned at least the minimum passing mark for the affected assignment or test.

B. Grading Procedures

1. Grades are listed on report cards and transcripts in letter format. The range used for each letter grade is listed below:

<u>Grade</u>	<u>Percentage</u>
A-A+	100-90
B-B+	89-80
C-C+	79-70
D-D+	69-60
F	Below 60

2. GPA point values for each letter grade designation for courses for which only high school credits are earned are detailed below:

A+	4.00	B	3.00	D+	1.50
A	4.00	C+	2.50	D	1.00
B+	3.50	C	2.00	F	0.00

3. GPA point values for each letter grade designation for COLLEGE credit courses can be earned are detailed below:

A+	4.00	B	4.00	D+	2.50
A	4.00	C+	3.50	D	2.00
B+	4.00	C	3.00	F	0.00

An F earned in a College Credit course earns 0 GPA points and an F on the transcript.

4. Grades will represent student achievement and may be based on any or all of the following: tests, quizzes, projects, daily assignments, class participation.



II. FINE ARTS COURSES

ART I 12801 (year long) NDE course code 020100

Art I is a beginning level art course designed to enable students to communicate ideas through a variety of media and techniques. Students will be introduced to the Elements of Art, and the Principles of Design through exploration of both two and three dimensional media. In addition to art production, students will use a variety of learning strategies to connect to the human experience through art and art history. Units of study will include: composition, color theory, 3-dimensional form, and drawing.

PREREQUISITES: NONE

ART II 12802 (year long) NDE course code 020200

In this course students will develop an understanding of the Elements of Art and the Principles of Design. Students will continue to improve their technical skill as a means of effectively communicating ideas that connect to the human experience. Art production units will build on those covered in Art I. Students will continue to research, respond to, and analyze, art and art history.

PREREQUISITES: ART 1 or INSTRUCTOR PERMISSION

ART III 12803 (year long) NDE course code 020300 and 020400

In this course, students will apply their knowledge of the Elements of Art and the Principles of Design. Students will continue to develop their personal style and advance their technical abilities, while working with a variety of media and techniques. Art production units will build on those covered in Art II. Students will continue to research, respond to, and analyze, art and art history.

PREREQUISITES: ART 2 or INSTRUCTOR PERMISSION

ART IV I.S. 12809 (year long) NDE course code 020400

Independent Study students will be required to write brief research papers, and project proposals, on the art styles, or periods, they wish to investigate, then create artworks based on their research. Students will be expected to use their personal voice and style, in an innovative way, to communicate a message that connects to the human experience. Students will demonstrate advanced technical skill and media proficiency. Students will complete approximately 3 substantial projects per semester.

PREREQUISITES: ART 3 or INSTRUCTOR PERMISSION

BAND 12804 (year long) NDE course code 120500

Performance oriented focus will include marching, concerts, and competitions. Music study will cover many styles and forms of instrumental music over the ages. Band students will make up the Pep Band, Jazz Band, and small ensembles. Attendance at concerts and functions is a required part of course enrollment.

PREREQUISITES: ELEMENTARY/MIDDLE SCHOOL BAND PARTICIPATION or INSTRUCTOR PERMISSION

CHORUS 12805 (year long) NDE course code 120400

Performance oriented focus will include local, conference, and district concerts and competitions. Music study will cover all periods and styles (i.e. sacred, secular, pop, etc.). Attendance at concerts and functions is a required part of course enrollment. Choral ensembles, such as Swing Choir, are extensions of Vocal Music; participation in ensembles requires enrollment in Chorus. Chorus may be divided into 2 groups (Beginning and Advanced) depending on #'s of students registered for the class.

PREREQUISITES: NONE

III. WORLD LANGUAGE COURSES

SPANISH I 12901 (year long) NDE course code 060241

Development of basic oral, written, and listening skills for Spanish will be the focus via emphasis on pronunciation, grammatical rules, dictation, and cultural appreciation.

PREREQUISITES: NONE

SPANISH II 12902 (year long) NDE course code 060242

Continuation of skills development begun in Spanish I, with an additional emphasis on oral, written, and listening fluency.

PREREQUISITES: SPANISH I

SPANISH III 12903 (year long) NDE course code 060243

Refinement and advancement of basic skills acquired in Spanish I and II, with an additional emphasis on composition and reading.



PREREQUISITES: SPANISH II

SPANISH IV 12904 (year long) NDE course code 060244

Advanced study of the Spanish language, with an emphasis on individual reading and conversational competencies. Students enrolling in Spanish IV will practice conversational skills with classmates and engage in directed readings.

PREREQUISITES: SPANISH III

IV. HEALTH/PHYSICAL EDUCATION COURSES

PERSONAL HEALTH 13001 (semester long). NDE course code 080100

Focus on various health issues via units of instruction drawn from such topics as personal health issues, growth and development, emotional and mental health, disease control and prevention, nutrition, substance use and abuse, safety and accident prevention, community and environmental issues, and consumer health issues.

PREREQUISITES: NONE

FAMILY HEALTH 13003 (year long or Semester). NDE course code 080106

Focus on various health issues via units of instruction drawn from such topics as family health issues, relationships, consumer skills, growth and development of children, emotional and mental health, home safety, substance use and abuse, and family life education.

PREREQUISITES: NONE

TEAM SPORTS 13101 (year long) NDE course code 080200

Emphasis on rules, origins, and playing of basketball, volleyball, soccer, flag football, flash football, and other sports. Students will also engage in developing personal fitness regimens. This class may be repeated on a space available basis and/or instructor permission.

PREREQUISITES: NONE

STRENGTH TRAINING 13102 (year long) NDE course code 080601

Intended for students wishing to get in shape or stay in shape. Activities will include weight lifting, aerobics, jogging, jumping rope, and other conditioning exercises. This class may be repeated on a space available basis and/or instructor permission.

PREREQUISITES: NONE

V. LANGUAGE ARTS COURSES

ENGLISH SURVEY 12002 (year long) NDE course code 050021

Instruction in grammar, usage, vocabulary, spelling, formal and personal writing; literature study will follow a thematic approach to novels, poetry, short stories, and drama.

PREREQUISITES: 9TH OR 10TH GRADE STUDENTS ONLY

AMERICAN LITERATURE 12004 (year long) NDE course code 050301

Via a survey approach, students will react to the standards of American literature from a personal and historical perspective. Writing instruction will be literature-based and will include narration, description, criticism, and exposition.

PREREQUISITES: ENGLISH SURVEY

COMPOSITION 12005 (year long) NDE course code 050100

Students will learn the elements of composition based on the six-trait writing model. A focus on persuasion and real-world use is emphasized. Reading comprehension and fluency will be emphasized during the second semester as a basis for analysis and improved sentence structure.

PREREQUISITES: ENGLISH SURVEY AND AMERICAN LITERATURE

EXPOSITORY WRITING 12008 (year long) NDE course code 050023

Coverage of the basics of the composition process via the levels of sentence structure, paragraph development, and essay form and style. Elements of expository production will include a variety of purposes (i.e. cause and effect, persuasion, etc.) and forms (i.e. the essay and the research paper). Elements of creative production will include personal journals, short stories, poetry, etc.

PREREQUISITES: 11TH GRADE STANDING

THE CONTEMPORARY NOVEL 12003 (First Semester) NDE course code 050310

Novels studied will allow students to experience the major psychological and sociological themes found in twentieth century fiction. Writing instruction will be literature-based and will include narration, description, criticism, and exposition.



PREREQUISITES: 11th GRADE STANDING

WORLD LITERATURE 12007 (Second Semester) NDE course code 050304

Study of major works of non-American literature via an emphasis on themes common to all literature. A survey text will be supplemented by selected novels. Writing instruction will be literature-based and will include narration, description, criticism, and exposition.

PREREQUISITES: 11TH GRADE STANDING

SPEECH AND DRAMA 12006 (year long) NDE course code 050501

Competitive speech and drama activities will be the focus of this class. Students will learn the basics of various forensics forms and theatrical techniques and have numerous opportunities to apply that learning. Participation in "Night of One Acts" is a required part of this course.

PREREQUISITES: 11TH GRADE STANDING

JOURNALISM 12016 (year long) NDE course code 050401

This class will cover the basics of news writing, graphic design, computer design, and photography. Participants will write articles of the district's online newspaper, design and sell advertisements for the yearbook, and write feature stories for the yearbook among other requirements. This class may be repeated.

PREREQUISITES: 10th GRADE STANDING AND INSTRUCTOR PERMISSION

VI. MATHEMATICS COURSES

ALGEBRA I 12203 (year long) NDE course code 110300

Algebra is the first step in the college preparatory math sequence. This course examines the basic structure of real numbers, algebraic expressions, and functions. The topics studied are linear equations, inequalities, functions and systems, quadratic equations and functions, polynomial expressions, data analysis, probability, and the elementary properties of functions. Identified students may be placed into a MATH LAB to support their performance in Algebra I.

APPLIED GEOMETRY 12205 (year long) NDE course code 110503

Application of the hands on approach used in the applied mathematics courses to the study of geometry. Students completing two years of applied mathematics and one year of applied geometry will have met the mathematics requirement for graduation.

PREREQUISITES: APPLIED MATHEMATICS II or ALGEBRA I

GEOMETRY 12206 (year long) NDE course code 111200

Geometry introduces the study of points, segments, triangles, polygons, circles, solid figures, and their associated relationships as a mathematical system. Emphasis is placed on the description and use of inductive, deductive, and intuitive reasoning skills. Powers of abstract reasoning, spatial visualization and logical reasoning patterns are improved through this course. Points, segments, triangles, polygons, circles, and solid figures are the structures studied. There is also a focus on comparisons between figures concerning surface areas, volumes, congruency, similarity, transformations, and coordinate Geometry. Algebra I skills are used throughout the course.

PREREQUISITES: ALGEBRA I AND/OR APPLIED GEOMETRY

ALGEBRA II 12207 (year long) NDE course code 110306

Continuation of algebraic study begun in Algebra I with attention to algebraic proofs, factoring, first and second degree equations, graphing, formulas, exponents, radicals, quadratic equations, polynomial equations, and complex numbers. TI84+ Graphing calculator is very useful for this course.

PREREQUISITES: ALGEBRA I

TRIGONOMETRY 12217 (First Semester) NDE course code 111600

Course topics include angles, unit circles, isometric identities, inverse trigonometric functions, fractal geometry, trigonometric functions, and vectors. TI84+ Graphing calculator is very useful for this course.

PREREQUISITES: ALGEBRA II



VII. SCIENCE COURSES

BIOLOGY 12103 (year long) NDE course code 130201

The study of life on the earth. Topics covered will include the five major units of biological science: the scientific method; cell structure and cellular processes; genetics, and heredity; evolution; classification of bacteria, protists, plants, and animals; ecology and populations.

PREREQUISITES: NONE, AUTOMATIC ENROLLMENT FOR 9TH GRADERS.

GENERAL SCIENCE 12113 (year long) NDE course code 130415

The General Science course is designed to develop a basic understanding of earth and space science concepts which will include formation of the universe, life cycle of a star, geological cycles and earth systems. This course will also cover topics in chemistry, physics and life sciences. These will include biodiversity, living systems, structure and properties of matter and interactions with the physical world. 10th or 11th Grade Standing. Recommended instead of Chemistry and/or Physical Science if student is not currently enrolled in or completed with Algebra II.

PHYSICAL SCIENCE 12101 (year long) NDE course code 130300

Physical Science is an introductory course into the general principles of physics and chemistry. In physics the topics covered include motion, forces, energy, energy transformations, work, power, wave mechanics, electricity, magnetism, thermodynamics and sound. In chemistry the concepts to be covered involve matter, its structure, composition and the changes it undergoes. This course will involve extensive lab experimentation, computer simulations and modeling exercises in addition to regular classroom work. This course is recommended if the student is planning to take Chemistry and/or Physics during their Junior or Senior year.

PREREQUISITES: 10th, 11th or 12th grade standing

CHEMISTRY 12105 (year long) NDE course code 130301

Chemistry is the study of the composition, structure, properties and reactions of matter. Topics to be covered include stoichiometry, chemical bonding, atomic theory, periodicity, quantum mechanics, thermochemistry, oxidation-reduction, solutions, the chemistry of complex ions and transition metal chemistry. The students will apply the scientific method through experimentation and learn to communicate scientific and quantitative information. *PREREQUISITES: ALGEBRA I AND ALGEBRA II RECOMMENDED AND 10TH GRADE STANDING.*

PHYSICS 12106 (year long) NDE course code 130303

The Physics course is designed to develop an understanding of the phenomena of our everyday lives via the laws of physics. Topics to be covered include Newtonian mechanics, force, momentum, work, energy, gravity, thermodynamics, wave properties and nuclear reactions. The students will apply the scientific method through experimentation and analysis of data collected. There will be an emphasis on quantitative problem solving skills. They will also apply the laws of physics to solve real world problem simulations. *PREREQUISITES: GEOMETRY AND ALGEBRA II RECOMMENDED AND 11TH GRADE STANDING.*

VIII. SOCIAL STUDIES COURSES

WORLD GEOGRAPHY 12301 (year long) NDE course code 150700

Focus on acquiring/applying basic geography skills (such as map, graph, and chart reading) and an awareness of the location of continents, countries, major cities, landforms, and bodies of water. The effect of geography on world economics, politics, environmental factors, and social interaction will be covered as well. World Geography is required for GRADUATION.

PREREQUISITES: NONE

AMERICAN HISTORY 12302 (year long) NDE course code 150820

Attention devoted to American history since the Civil War, with a review of the formation of the United States, the Declaration of Independence and the Constitution. The course will focus on the social, economic, and political factors that have impacted the shaping of the nation. Particular attention will be paid to the World Wars, Great Depression and the Cold War of the 20th Century.

PREREQUISITES: 10TH GRADE STANDING

CIVICS 12315 (First Semester) NDE course code 151114

Civics study will include an overview of the social, economic, political, and judicial aspects of contemporary American society. Current events in relation to text concepts will be incorporated. Civics is required for GRADUATION.

PREREQUISITES: 12TH GRADE STANDING



ECONOMICS 12304 (Second Semester) NDE course code 151000 econ/151114 civics

Economics study will focus on supply, demand, pricing, various economic systems, the Federal Reserve, U. S. banking practices, the Gross National Product (GNP) and its components, and current world and national economic issues. Economics is required for GRADUATION.

PREREQUISITES: 12TH GRADE STANDING

PSYCHOLOGY 12316 (First Semester) NDE course code 151200

A conceptual approach to the study of psychology via review of various theories of human behavior, experimental methods and testing, and the relevance of psychology to everyday life. These courses are elective credits and cannot replace required courses for graduation.

PREREQUISITES: 11TH GRADE STANDING

SOCIOLOGY 12304 (Second Semester) NDE course code 151300

Sociology study provides an overview of the behavior and interaction of man in terms of groups (or societal) behavior. Attention will be given to social change, social class, social institutions, and economics. These courses are elective credits and cannot replace required courses for graduation.

PREREQUISITES: 11TH GRADE STANDING

WORLD HISTORY 12303 (year long) NDE course code 150800

Upper level survey of various world civilizations including Western (i.e. Greek, Roman, and Germanic cultures), Eastern (i.e. Chinese and Japanese cultures), and African. World History is required for GRADUATION. **PREREQUISITES: 11TH GRADE STANDING**

IX. VOCATIONAL EDUCATION COURSES

A. Agricultural Education

INTRO to Environmental & AG Sciences 12701 (year long) NDE course code 011000

A comprehensive course taking an in-depth look at the history of the FFA as well as the present direction of the organization. Students will learn leadership skills, interpersonal skills, the FFA Creed, the FFA Motto, and what the FFA has to offer. Students do not need to be interested in farming or from a farm to be in FFA. FFA offers a wide variety of experiences that will last a lifetime.

PREREQUISITES: 9th GRADE STANDING AND 1ST YEAR MEMBERS ONLY

ANIMAL BIOLOGY (011004) (First Semester - every year) NDE course code 011004

A course focusing on the basic scientific principles and processes that are involve in animal physiology, breeding, nutrition, and care in preparation for an animal systems career. topics include animal diseases, introduction to animal science, animal nutrition, animal science issues, career opportunities and animal evaluation. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities. **OFFERED 2015-2016**

PREREQUISITES: 10TH-12TH GRADE STANDING

COMPANION ANIMALS (12715) (Second Semester 2018-2019) NDE course code 011006

Second semester is a course providing instruction on animal husbandry topics related to companion animals that are served by a veterinarian. This course includes breeding, grooming, care, and marketing of companion animals. **Not offered 2015-2016 or 2016-2017**

PREREQUISITES: 10TH GRADE STANDING

VETERINARY SCIENCE 12719 (First Semester 2017-2018 NDE course code 011015

First semester paired with Large Animal Science. Introduces to basics of animal care. Topics include disease, parasites, feeding, shelter, grooming, and general animal care. **OFFERED 2013-14 AND 2015-16.**

PREREQUISITES: 10TH GRADE STANDING.

LARGE ANIMAL MANAGEMENT 12718 (Second Semester 2016-2017, 2019-2020) NDE course code 011005

Second semester builds on Veterinary Science, is a course providing instruction on animal waste management, animal science economics, decision making, global concerns in the industry, genetics, and breeding. 10-12th grade standing. **OFFERED 2013-14**



FOOD SCIENCE 12716 (Second Semester 2017-2018, 2019-2020) NDE course code 01400

A course that introduces students to the principles, applications and science of food and food processing and production. Students will learn the scientific principles and practice scientific applications involved in the food industry including food science food processing , microbiology, toxicology, regulations concerning the protection of the food supply and organic production of food and nutrition. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities. *Offered 2015-16 and 2016-2017*

PREREQUISITES: 9TH-12TH GRADE STANDING

FOOD PRODUCTION, NUTRITION AND HEALTH 12726 (First Semester 2017-2018, 2019-2020) NDE course code 12726

This is a project-based foundational course to introduce students to the size and scope of food production, nutrition, and health, and the underlying principles. Students will define the food science industry, describe historical milestones, and analyze how the production, processing, distribution, and marketing of food and food products influence consumer behavior and health. Students will apply knowledge about food products, nutrients, and the chemical and physical properties of food to solve human nutrition and health problems. Upon completion of this course, students are prepared to enroll in either Food Science or Nutrition Science courses within this program of study in preparation for careers in those areas. *Offered 2015-2016 and 2016-2017*

PREREQUISITES: 9-12TH GRADE STANDING

PLANT SCIENCE 011007 (First Semester) (2016-2017, 2018-2019) NDE course code 011007

This course focuses on knowledge, information, and skills related to the science of plant production and agronomy and provides the necessary skills for careers in horticulture, agricultural production and management, and science. The content includes plant growth and reproduction, biotechnology and research, fertilizers, plant and tree identification, controlling weeds and pests, and safe and proper use of agricultural chemicals. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities. **PREREQUISITES:** 10TH GRADE STANDING

BIOTECHNOLOGY 012004 (Second Semester) (2016-2017, 2018-2019) NDE course code 012004

This course equips students with a working knowledge of biotechnology as it is used in Agricultural, Food, Natural Resources, and Health Sciences. Students will diagram how classical processes have influenced trait improvement throughout history. Through application of DNA structure and gene insertion methods, students will demonstrate how genetic engineering has been applied to organism improvement and solving human health issues. Student will apply DNA and protein detection to determine presence of specific traits. Additionally, students will distinguish between scientific and societal biotechnology issues. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

PREREQUISITES: 10TH GRADE STANDING

METAL FABRICATION & WELDING 12711 (First Semester) NDE course code 016005

This class will provide students with first hand practical knowledge of different aspects of the welding industry as well as allowing students to become proficient welders. Power and mechanical principles applied in engineering fields will also be studied.

PREREQUISITES: *Intro to Built Environment/Computer Aided Drafting or Intro to AG and* 10th-12TH GRADE STANDING

ADVANCE WELDING 101940 (Second Semester) NDE course code 101940

A study of the processes used by modern industry to manufacture consumer products, safety, measurement, planning, machining, fabrication processes, and finish processes will be included. Career opportunities will also be explored.

PREREQUISITES: *Welding*

AG Leadership 017000 (First Semester) NDE course code 017000

The study of the marketing of agricultural commodities via the Chicago Mercantile Exchange. Students will learn about contracts and how to effectively trade on the board using different strategies; attention will also be given to mutual funds and investing.

PREREQUISITES: 12TH GRADE STANDING OR INSTRUCTOR PERMISSION (OFFICERS)

AGRI Business 12705 (Second Semester) NDE course code 011009

Second semester study will address the business management of an Ag enterprise.

PREREQUISITES: 12TH GRADE STANDING OR INSTRUCTOR PERMISSION (OFFICERS)



FLORICULTURE & LANDSCAPE DESIGN 12714 (Second Semester) NDE course code 012002

Introduces business procedures, design principles, and production techniques used in retail and wholesale floral businesses and in the landscaping fields.

PREREQUISITES: PLANT SCIENCE

AGRONOMY 011008 (Second Semester) NDE course code 011008

This course provides the study of plant physiology and morphology and its relationship to growth, development and reproduction of crop and forage plants in the global environment. Topics include: seed identification, testing and grain grading. Identification of agronomic crops and major weeds in crop production and harvesting and handling will be emphasized.

PREREQUISITES: PLANT SCIENCE

B. Business Education

ACCOUNTING 12402 (year long) NDE course code 030300

Introduction to basic accounting principles and techniques necessary for recording the financial operations of a business.

PREREQUISITES: 10TH GRADE STANDING

ADVANCED ACCOUNTING: Independent Study 12412 (year long) NDE course code 030301

A continuation of work begun in Accounting, with emphasis on acquiring increasingly complex skills and on financial analysis. This course is taken on an independent study basis.

PREREQUISITES: ACCOUNTING and PERMISSION OF THE INSTRUCTOR

Intro to Business, Management, & Marketing 12401 (First Semester) NDE course code 032300

This course is designed as an introductory overview of the Business, marketing, and management career field for 9th or 10th graders. The course introduces finance, business and economic systems, and forms of business ownership.

PREREQUISITES: NONE

MANAGEMENT & LEADERSHIP 032802 (Second Semester) NDE course code 032802

This course emphasizes the basic concepts of management and leadership within a business or organization. It addresses characteristics, organization, and operation of business as major sectors of the economy. Students will investigate management issues involved in planning, organizing, leading, and controlling an organization. They will also acquire essential skills in the areas of emotional intelligence: time management, stress management, professional growth and development, communication, and relationship skills.

PREREQUISITES: NONE

INFORMATION TECHNOLOGY I Microsoft / Google 12415 (First Semester) NDE course code 270501

This course will provide in-depth training in word processing, spreadsheet, presentation, and database programs commonly used in various career fields.

PREREQUISITES: NONE

INFORMATION TECHNOLOGY II Multi-media 12420 (Second Semester) NDE course code 270503

This course will work on a variety of software to develop items such as desktop published documents, digital media, podcasts, and E-portfolios. This class is designed to be more of a multi-media class.

PREREQUISITES: NONE

ENTREPRENEURSHIP 12416 (First Semester) NDE course code 320600

This course will guide students step-by-step through the process of owning a business. Students will select a product or service to sell, determine the customer base, market the product, obtain financing, manage employees, and more. The course will culminate with a student presentation and/or business plan..

PREREQUISITES: INSTRUCTOR PERMISSION

C. Career Education

CAREERS & PERSONAL FINANCE 13304 (semester long) NDE course code 033000

This one semester course will assist students in developing: an understanding of the world of work; skills needed to explore and use school and community resources regarding post-high school plans; decision-making skills as those relate to post-high school options; short-term and long-term career/college plans; and, basic personal financial skills.

PREREQUISITES: 10TH OR 11TH GRADE STANDING



D. Industrial Technology

INTRODUCTION TO THE BUILT ENVIRONMENT 12607 (First Semester) NDE course code 100100

This course will expose students to new and emerging technologies that affect their daily lives. A wide range of technologies may be covered focusing on the instructional clusters of communications, manufacturing, transportation, and construction.

PREREQUISITES: None

MANUFACTURING WOODS SAFETY AND TECHNOLOGY 12615 (First Semester) NDE course code 101920

Work place safety and the proper and safe use of common shop tools will form the introductory focus for this course. Once students have passed all safety tests, they will begin working in the shop and learning basic carpentry and woodworking skills in order to produce quality projects. Students wishing to take their projects home after they complete them will be required to pay for materials.

PREREQUISITES: Introduction to the Built Environment

ADVANCED WOODS MANUFACTURING 12616 (Second Semester) NDE course code 101921

Students will review and continue work place and tool safety. Students will then research and design a cabinet or piece of furniture, create a materials and cost list, and then produce that project. Students wishing to take their projects home after they complete them will be required to pay for materials.

PREREQUISITES: WOODS SAFETY AND TECHNOLOGY

MANUFACTURING PLASTICS 101950 (First Semester) NDE course code 101950

This is a beginning level course that introduces the student to basic knowledge and skills that are foundational to plastic manufacturing. Safety, measuring, planning and production processes will be covered.

PREREQUISITES: Intro to the Built Environment

ADVANCED PLASTICS FABRICATION & MANUFACTURING 101951 (Second Semester) NDE course code 101951

A study of the processes used by modern industry to manufacture consumer products, safety, measurement, planning, machining, fabrication processes, and finish processes will be included. Career opportunities will also be explored.

PREREQUISITES: Manufacturing Plastics

COMPUTER AIDED DRAFTING 100140 (Second Semester) NDE course code 100140

This course provides students with a broad introduction into Computer-Aided-Drafting (CAD). With hands-on exercises, assignments and projects, students gain the capability to use CAD to model projects and create and distribute industry-standard drawings.

PREREQUISITES: Intro to the Built Environment

PRINCIPLES OF CONSTRUCTION TECHNOLOGY (Full Year) 100110 NDE course code 100110

This course provides an overview of the total construction process. Students will develop problem-solving and critical-thinking skills by identifying the relationship between resources and requirements of a project/problem to accomplish realistic planning.

PREREQUISITES: Computer Aided Drafting

APPLICATION IN DESIGN/PRE CONSTRUCTION (Full Year) 100141 NDE course code 100141

In this class, the students will create residential architectural working drawings, using CAD, necessary for a standard building permit. With hands-on exercises, assignments and projects, students gain the capability to use CAD to model a house project and create and distribute industry-standard drawings.

PREREQUISITES: Computer Aided Drafting

X. DUAL ENROLLMENT/DUAL CREDIT COURSES

Several courses referenced above for Language Arts, Science and Mathematics offer students the opportunity to earn college credits from Southeast Community College in addition to high school credit



counting toward meeting graduation requirements. For those specific courses, AGHS will provide the necessary textbooks with students responsible for payment of tuition and fees.

In addition, students may elect to register for online college coursework available from any number of institutions (including UNL, SCC, Peru State College, and MCC among others). Successful completion of such online work may also be counted toward meeting high school graduation requirements BUT all online curriculum must be pre-approved by the Principal or designee. For online coursework, students will be responsible for payment for textbooks in addition to tuition and fees costs (excluding SENCAP courses).

NOTE: a \$50 fee will be assessed to students who drop this course after submitting the SECC registration form OR if the students gets a D or lower in the course.

COLLEGE BIOLOGY 12115 (year long) NDE course code 139930 (AGHS Instructor)

Topics covered include chemistry and biological molecules, cells, genetics/inheritance, evolution, diversity of animals, plants, fungi, microbes, and ecology and the environment. This course is not only designed for students interested in biological science areas or degrees; this course can also be used to earn hours towards the general studies requirement for science at most four year colleges in Nebraska. This course is a dual credit course from Southeast Community College for General Biology (BIOS-1010). Payment for tuition and fees and successful completion of the course with a "C" or better is required to receive college credit. The course is a college level course which will require a high level of academic rigor. Students will be expected to demonstrate college level work. **PREREQUISITES: 12th GRADE STANDING.**

SUCCESSFUL COMPLETION ("C" OR BETTER) BIOLOGY, AND EITHER CHEMISTRY OR PHYSICS.

COLLEGE ALGEBRA (Second Semester) 12214 NDE course code 119930 (Instructor TBA)

This course will complete the formal study of the elementary functions begun in Algebra I and II and through a focus on the use of modeling and problem-solving. Functions covered include polynomial, exponential, logarithmic, rational, radical, and their inverses. Complex numbers, and quadratic equations are also studied. Dual credit from Southeast Community College (MATH 1150) will be available upon payment of tuition and fees and upon successful completion of Algebra II and Trigonometry with a grade of "C" or better. An ACT Composite score of 23 or better is helpful but not required for dual credit participation in College Algebra. TI84+ Graphing calculator is very useful for this course. The course is a college level course which will require a high level of academic rigor. Students will be expected to demonstrate college level work.

PREREQUISITES: ALGEBRA II and TRIGONOMETRY.

COLLEGE STATISTICS (First Semester) 12213 NDE course code 111700 (AGHS Instructor)

This course will offer a study of the methods of summarizing and interpreting data, elementary probability, and its relation to distributions. The meaning, importance, and application of the normal and binomial distributions and the methods of random sampling, testing of hypotheses, and analysis of paired data will be covered as well. Dual credit from Southeast Community College for Elementary Statistics (MATH1180) is available upon payment of tuition and fees and upon successful completion of Statistics with a grade of "C" or better. An ACT Composite score of 23 or better is required for dual credit participation in Elementary Statistics. TI84+ Graphing calculator is very useful for this course. The course is a college level course which will require a high level of academic rigor. Students will be expected to demonstrate college level work.

PREREQUISITES: ADVANCED MATH or PRE-CALCULUS

COLLEGE CALCULUS (year long) 12219 NDE course code 119932 (AGHS Instructor)

Review of functions, introduction to limits, differentiation of algebraic and trigonometric functions, applications, anti-differentiation and the definite integral. A graphing calculator is strongly recommended. Dual credit from Southeast Community College for (MATH 1160) is available upon payment of tuition and fees and upon successful completion of College Calculus with a grade of "C" or better. An ACT Composite score of 28 or better is required for dual participation credit. The course is a college level course which will require a high level of academic rigor. Students will be expected to demonstrate college level work.

PREREQUISITES: TRIGONOMETRY and COLLEGE ALGEBRA

College Introduction to Psychology 12308 NDE course code 159931

Introduction to the science of psychology including the study of learning theory, memory, personality, growth and development, neurological aspects, abnormal behavior therapies, intelligence, motivation, emotion, sensation, perception and theoretical perspectives

College Introduction to Sociology 12318 NDE course code 159932 (SCC Instructor)



Introduction to the basic principles of sociology including the study of culture, socialization, social structure, social institutions, investigative behavior, deviance, inequalities, and theoretical perspectives.

College Public Speaking 12025 NDE course code 059931 (SCC Instructor)

This course will enable students to practice the skills necessary for presenting speeches in a variety of contexts. It will focus on the organization, preparation, research, and evidence needed for a presentation that is tailored to fit the audience. This course will enhance the student's listening skills which will assist them in everyday situations. Students will perform at least three research-based oral presentations before an audience.

College Composition I 12009 NDE course code 059930

Composition I offers instructional practice in the techniques of effective writing. The process of planning, writing, revising, and editing essays for particular audiences and purposes and research-related skills are also emphasized

Prerequisite: Appropriate placement score OR grade of "C" or higher in ENGL0980 or ENGL0999.

College Introduction to Literature 12026 NDE course code 050300 (SCC Instructor)

Introduction to the major genres and conventions associated with literature. Includes fiction, poetry, and drama. By employing critical reading/thinking skills and analytical and creative writing skills, students will understand literature more fully. Exposure to a range of authors representing a variety of cultural and ethnic backgrounds.

Prerequisite: A grade of "C" or higher in ENGL1010 or ENGL1015 or permission of instructor.

College American History II 15010 NDE course code 159930 (SCC Instructor)

Survey of major political, social, cultural and economic developments since 1877. Industrialization and urbanization, the rise of the United States as a world power, the New Deal and World War II, the postwar years, civil rights struggles, the Vietnam era and contemporary America.

XI. SOUTHEAST NEBRASKA CAREER ACADEMY PROGRAMS

Ashland-Greenwood High School, along with 30+ other schools in eastern, southern, and central Nebraska, participate in the Southeast Nebraska Career Academy Program (SENCAP). SENCAP represents a partnership between Southeast Community College, Educational Service Unit #6 (Milford), health care providers, high schools, businesses, and industry in several counties which provides students with the opportunity to explore a specific career field and earning college credit while still in high school.

In career academies, students not only take college-level courses and get a head-start on degree programs, they also visit various work sites, participate in job-shadowing experiences, and learn skills that will help them be successful in pursuing the career field of their choice.

Each academy will have a program of study allowing students to participate for two consecutive years. Academy courses are offered during the regular school day, with AGHS student schedules adjusted to allow for full participation in academy programs and activities. Credits earned from Southeast Community College will transfer to other community colleges or four-year institutions.

Students accepted for enrollment in a SENCAP program will have tuition and fees paid for through special funding arrangements; needed textbooks will also be provided. Enrollment in any SENCAP program requires completion of an application form and final approval by AGHS and SENCAP officials. Interested students are encouraged to visit with the counselor or media specialist for more details and to secure an application form. AGHS will pay the balance for these courses. Textbooks will be provided by AGHS and will remain the property of the school. Students will have the option of buying the books from AGHS at cost if they choose to keep the book for future reference once the course is complete. **NOTE: a \$50 fee will be assessed to students who drop this course after submitting the SECC registration form OR if the students gets a D or lower in the course.**

Nursing Assistant (CNA) 12027 NDE course code 077400

This course teaches basic nursing skills such as bathing, feeding, ambulation, transferring and toileting. It is approved by the Nebraska Department of Health and Human Services Regulation and Licensure.



Successful completion of this course allows the student to be placed on the Nebraska Nursing Assistant Registry. Nursing assistants may work in long-term care facilities, hospitals, home health care, hospice or mental health facilities.

Medical Terminology 1 15004 NDE course code 077930

Introduction to medical terminology pertaining to body systems. Will describe directional terms, quadrants, cavities, define, spell and pronounce medical terms and abbreviations used in health care.

Introduction to Energy Generation and Distribution 15008 NDE course code 109930

Introduction to the history of electric and fluid power in the U.S. including deregulation. Investor-owned and public utilities are discussed. Methods of commercial power generation including fossil fuels, nuclear power and renewable energy generation. Includes overview of electrical transmission and distribution systems. System reliability and governance are covered.

Introduction to Professional Education 15020 NDE course code 359932

An overview of education in the United States viewed in terms of history, philosophy, finance and governance. Encourages critical thought regarding the role of education in our multicultural society, the role of the teacher, and educational practices in schools. The course is designed to help students explore education as a prospective career.

Introduction to Early Childhood Education 15005 NDE course code 359930

An overview of early childhood education. History, trends, the philosophies of various programs, diversity, inclusion, licensing standards, current legislation, professionalism, and advocacy are examined. (This course required for Early Childhood Degree at SCC.)

Preschool Child Development 15021 NDE course code 359931

This course focuses on typical/atypical development of the child ages 3 through 5 years, in the domains of physical growth and motor skills, cognition and language, and social/emotional development. Grade of "C" or higher required for ECED2065 (Child Care Head Teacher Practicum). (This course required for Early Childhood degree at SCC.)

Introduction to Business 15006 NDE course code 032400

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. Also, a study and discussion of various strategies for success of specific public and private firms as well as small business. Business vocabulary used to understand and interpret business news and information.

Introduction to Entrepreneurship 150012 NDE course code 032600

The student will evaluate the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The student will understand the role of entrepreneurial businesses in the United States and the impact on our national and global economy.

Introduction to Criminal Justice 15016 NDE course code 399930

Provides an overview of the history, development and philosophies of the criminal justice system within America. Areas covered include crime and the criminal justice system, the police, the courts, corrections, and the juvenile justice system.

Police & Society 15017 NDE course code 399931

Examines the role of the police in relationship to law enforcement and American society. Topics include, but are not limited to the role and function of police, the nature of police organizations and police work, and the patterns of police-community relations.

College Metal Arc Welding Theory 12721(semester) NDE course code 109931

Study of Shielded Metal Arc Welding theory, safety, applications, procedures, and welding practices. Study and selection of power sources and electrodes.

Prerequisite: Welding & Metal Fabrication

College Metal Arc Welding Lab I 12722 (semester) NDE course code 109932



Beginning welding of carbon steel with the Shielded Metal Arc Welding process on various joint configurations and with various electrodes.

Prerequisite: MAW Theory must be taken at the same time

College Gas Metal Arc Welding Theory 12723 (First Semester) NDE course code 109933

Study of Gas Metal Arc Welding theory, safety, applications, manipulative skills, welding principles, and procedures. Study and use of various filler wires and shielding gases and welding power source set-up.

Prerequisite: Welding & Metal Fabrication

Gas Metal Arc Welding Lab I 12724 (First Semester) NDE course code 109934

Beginning welding of carbon steel with the Gas Metal Arc Welding process on various joint configurations.

Prerequisite: GAW Theory must be taken at the same time.

College Oxyacetylene Theory 12730 (Second Semester) NDE course code 109935

Study of the theory, safety, equipment and applications of the Oxyacetylene Welding process.

Prerequisite: Welding and Metal Fabrication.

College OA Welding & Cutting Lab 12731 (Second Semester) NDE course code 109936

Laboratory exercises with the Oxyacetylene Welding, Braze Welding, Oxyacetylene Cutting and related processes.

Prerequisite: Oxyacetylene must be taken at the same time

THERE MAY BE MORE OF THESE OFFERINGS PENDING IN THE BUSINESS EDUCATION AND INDUSTRIAL TECHNOLOGY AREA(S).

XII. OTHER COURSE LISTINGS

ODYSSEYWARE ONLINE LOCAL COURSE OFFERINGS: *If a student has FAILED a core course or a course required for graduation, we may consider adding an online course on Odysseyware as an opportunity to earn those credits if retaking the class is not a viable option. Odysseyware can also be used as an option IF a core course or required course does NOT fit into the students schedule. Odysseyware can be used as an option to fill a hole in a student's schedule as an elective option, too. Odysseyware can be used in the case of a 'mandatory reassignment' by the Principal. Odysseyware may be used in a blended classroom environment at the direction of the staff member and administration. Odysseyware cannot be used simply as a replacement of a current course offering unless it meets one of the above requirements.*

DISTANCE EDUCATION OFFERINGS

Students without a full course load can entertain the options of a Distance Education offering, which are courses taught via a live video feed from a teacher in another district in Nebraska. There 'could' be additional charges for supplies for the class. The purpose of these courses is to offer different types of classes that we do not currently offer or cannot offer at AGHS. Choosing a distance learning class does not guarantee that all requests will be met depending on other scheduled courses. Any fee or tuition that comes with these courses will be paid by AGHS. Courses typically offered through this program have been: Holocaust Literature, Digital Art, Sports Nutrition, Creative Writing, and Wildlife Management. Any special 'supplies' that may be needed for a distance learning course may need to be purchased by the individual student.

TEACHER ASSISTANT 13302 (year long)

Duties include assisting teachers in preparing bulletin boards, supervising/tutoring students, correcting assignments, etc. Students wishing to be TAs must attach a note from a staff member indicating acceptance of the student as a TA for the following year. Only seniors are eligible for teacher assistant assignment. No credit is earned for this course assignment.

PREREQUISITES: 12TH GRADE STANDING AND STAFF ACCEPTANCE NOTE

STW: WORK EXPERIENCE COMPONENT 13201 (year long)

Program allowing for elective credits to be earned via employment, with credits earned determined by hours worked over the course of a semester. 90 hours of work experience is required to earn 5 elective credits toward graduation. Students may only earn a maximum of 15 credits per semester through the STW program. Students must meet all criteria for participation in the program prior to registering for Supervised Work Experience; contact the guidance office for that information.

PREREQUISITES: 12TH GRADE STANDING and GUIDANCE OFFICE AFTER CREDIT REVIEW....STUDENT MUST HAVE A MINIMUM OF 190 CREDITS EARNED TO QUALIFY/APPLY FOR STW CREDITS.

STUDY HALL 13301 (year long)

Students may elect to register for one study hall period rather than take a full load of classes. No credits are earned



for study hall. There may NOT be a study hall available EVERY period of the school day.
PREREQUISITES: NONE

