

ENDERLIN HIGH SCHOOL

COURSE DESCRIPTIONS

AGRICULTURE EDUCATION

Ag I

The Ag I class is designed to provide an introduction to the agriculture industry. Students enrolled in this class will learn and gain skills in leadership, wood working, metal working and use of power tools. To provide introductory information in the FFA animal agriculture, plant science and natural resources. During the Ag I course students will be engaged in hands-on activities from each of these areas, as well as learn interesting information about them.

Ag II

The Ag II class is designed to provide an introduction to the agriculture industry not covered in the Ag I class, and to provide advanced training and education in areas covered by the Ag I class. Students enrolled in this class will continue learn and work in the areas of leadership and FFA, welding, advance woodworking, animal nutrition and reproduction, lawn care and landscaping. During the Ag II course students will be engaged in hands-on activities from each of these areas of agriculture. Students will receive training on the tools and equipment not covered in the Ag I course.

Advanced Welding & Metalworking

The advanced welding course is designed to improve the welding skills of the students. This advanced welding course will include instruction in welding safety, metallurgy, oxyacetylene welding, brazing and cutting, arc welding, and wire-feed welding. Students of this course will learn how to weld mild steel, cast-iron, aluminum, and possibly stainless steel. Students will also learn and identify the different welding symbols, as well as the welding and identification of the types of weld joints, and welding in the flat, horizontal, vertical and overhead welding positions.

Students of this course will also be instructed in heat-treating, metal bending, hard facing, use of metal working hand and power tools, basic equipment repairs as well as occupations in welding and metalworking industry.

Natural Resources

The natural resources course is designed to provide a better understanding and appreciation of the earth's natural resources. We will also look at how these resources affect human life, how we can better manage these resources, and how to truly appreciate the world around us.

Students of this class will take an in-depth look at natural resource. They will explore problem areas, study better management and control practices, as well as discuss career areas in the categories of natural resources. The students of the natural resource class will also study alternative sources of energy, management of mineral resources, and current happenings such as global warming, and the deterioration of the earth's ozone.

Livestock Production

The Livestock production class is designed to give students an in depth look into the animal industry. Students learn about behavior, nutrition, genetics and reproduction, as well as care and maintenance of all domesticated animals. Students will also learn about meat and meat cutting, as well as uses for animals that include, clothing, and byproducts.

Farm Management

The farm management class is designed to provide students with a better understanding of agricultural operations and decision making to maximize profit and reduce losses. Students learn about record keeping, marketing, credit, insurance and costs associated with agricultural production.

Engines

The Engines class is designed to provide a knowledge about the operation and workings of single and multi-cylinder engines. The course will cover basic maintenance, and repair of these engines as well as the workings, repair, and maintenance of the entire motor vehicle. Students get a hands-on education by taking apart and putting back together a lawn mower or tiller engine, and by working on or observing the operations of the different areas to a motorized vehicle.

Structures

The Structures class is designed to provide a knowledge about building, maintaining and repairing a house or agricultural building. The course covers cement working, framing, insulating, wiring, plumbing, drywall, flooring installation, wall coverings, decorating, roofing, ventilation, climate control and landscaping. Students of the structure class will get hands-on activities in several of these areas and gain knowledge and confidence to do many of these for them self or as an employee.

Drafting

The drafting class is designed to give students seeking an education in engineering, architecture or draftsman or for those students who want to learn drafting techniques, a hands-on knowledge and experiences in using the tools and equipment associated with drafting. Students will complete drawings using different techniques for drawing two and three dimensional views, multi-view drawings, and computer-assisted-drafting. Students will also discuss careers that use drafting techniques as well as the broad uses for drafting and technical drawing.

Plant Science

The plant science class is designed to educate students in the vast world of plants and plant life. Students will learn how plants grow and how they enhance human life. Students will also learn about things that affect plants such as insects, weeds and diseases and how to control these pests to gain the desired results. Students of the plant science class will learn about vegetables and flowers gardening, flower arranging, and landscaping design. Careers in the plant industry are also discussed to provide possible job opportunities for students.

ART

Students will learn drawing and the basics of design. They will work with a variety of drawing and painting mediums. Students will do both two and three-dimensional work.

BUSINESS

Computer Applications

You will learn to use the Microsoft Office XP suite of applications (Word, Excel, PowerPoint and Access) for many types of business and personal projects. Examples of projects are memos, reports, mass mailings, address labels, pie charts, baseball statistics, loan amortizations, databases, and presentations. We will also be using the Internet for various activities.

Desktop Publishing

Desktop Publishing will teach students how to produce high-quality, printed documents that combine text and graphics from various sources. Students will learn how to design everything from business cards and posters to brochures and magazines. The second half of the year will be spent on web page design. Students will learn how to plan, organize, produce, and publish a web page.

Accounting

Students will learn how to do the basic accounting for a sole proprietorship (one owner), a partnership, and a corporation. You will learn accounting terminology that will be useful in any business and you will also complete several small simulations in which you are the accountant for a company.

Desktop Publishing

Desktop Publishing will expand on what students have already done with newsletters and graphics in the Computer Applications classes. This course will teach you how to design everything from cards and posters to brochures and magazines. The class will also focus on web page design.

Word Processing I and II

This course teaches the use of a Windows based computer and the Microsoft Word program to improve and enhance basic keyboarding skills. The skills learned will be used to produce business correspondence, reports, tables, application forms, outlines, graphics, and other documents with practice following instructions, solving problems, composing and preparing a neat and usable copy.

You will also learn the basics of Microsoft Excel to produce simple spreadsheets and charts. Microsoft PowerPoint will be used to produce several presentations. Plus, you will also be enhancing your keyboarding skills via the Glencoe keyboarding program.

Information Technology Essentials

Information Technology Essentials (IT Essentials) is an exploratory level course that provides an exposure to careers and issues in information technology. The course will cover four areas: hardware, software, networking, and programming. It will not cover any of these areas in depth, but will provide students the opportunity to learn about computer and networking information and to practice these basic technological concepts.

ENGLISH

English 9

Students will focus on the four language arts areas: writing, reading, speaking, and listening. Students will review parts of speech and parts of the sentence and extend their understanding through practice and in their writing. Students will review the paragraph and practice types of writing for a variety of purposes. Students will explore language and its powers as it is used in daily life, satire, argument, and propaganda. Students will study the following genre: biography, drama, the short story, the novel, the epic and satire. Students will continue to develop research skills and practice finding evidence and developing argument.

English 10

Students will continue to develop language, reading, writing, speaking, listening, and research skills. Students will practice reading comprehension skills as they explore the novel, drama, non-fiction, and poetry. Students will write a variety of genre with the emphasis on the multi-paragraph paper. Students will continue their study of grammar and usage in language. Students will have an extensive oral speaking unit. Students will extend their research skills by gathering and incorporating information into their own writing.

English 11

English 11 students will begin/review, and continue their study of usage and grammar and be able to speak and write in Standard English -- all the while learning more about the power, the beauty, and the meanings of the written and spoken word. They will use and view literature as a vehicle to look at and to evaluate their own lives, and to enlarge their world view -- as well as a continuing source for new ideas and understandings.

English 12

Students will continue to develop language, reading, writing, speaking, listening, and research skills. Students will practice and extend their reading comprehension skills as they explore the history and genres of English literature. Students will study and practice writing a variety of genre. Students will study and practice effective writing style and language usage for a variety of purposes. Students will continue to develop oral communication techniques for a variety of purposes. Students will complete an extensive research project.

Creative Writing

Students will continue to develop language, reading, writing, speaking, listening and research skills. Students will continue to develop oral communication techniques for a variety of purposes. Students will study and practice effective writing style and language usage for a variety of purposes. Students will complete a a writing portfolio final project to showcase the semester's variety of writing genres.

Fiction (Reading)

Students will continue to develop language, reading, writing, speaking, listening and research skills. Students will continue to develop oral communication techniques for a variety of purposes. Students will practice and extend their reading comprehension skills as they explore perspectives of literary analysis. Students will complete an extensive literary analysis project.

FAMILY AND CONSUMER SCIENCE

Healthy Living

A course offered for Seniors. It meets all year for one credit. Together with class books, notes and discussion each student is required to have a class speaker sometime during the year. Topics covered - personality development, personal decisions and dimensions of families. An emphasis is placed on health with topics such as mental health, growth and development, drugs, diseases and disorders.

Family and Consumer Science I

A course offered for freshmen. It meets all year for one credit. Topics covered include; self-discovery, relationships, resources to manage, housing design, clothing details and food choices.

Textiles and Clothing

A course offered for grades 10, 11 or 12. It meets for one semester for 1/2 credit. Topics covered are; history of costume, choosing what is best for you, care of clothing, making wise consumer choices and a clothing construction project to be completed in class.

Housing

A course offered for grades 10, 11 and 12. It meets for one semester for 1/2 credit. Topics covered are meaning of "home", selecting a home, history of housing, decorating the home using design, maintaining a home and special housing concerns. The class involves several class projects that involve design.

Foods

A course offered for grades 10, 11 and 12. It meets for one semester for 1/2 credit. Topics covered are: nutrition for various ages and lifestyles, making wise choices for health, and money issues. The class involves many food lab experiences from simple to complex.

Child Development

A course offered for grades 10, 11 and 12. It meets for one semester for 1/2 credit. Topics covered are: Aspects of pregnancy, child in the first year, the child from ages 1-3, and ages 4-6 in areas of social, mental, physical, and intellectual development. Students will hands on projects with children in daycare and elementary classrooms.

Health and Nutrition

A two-semester class aimed primarily at grades 10,11 and 12. Units covered include; Physical activity and nutrition, mental and emotional health, promoting safe and healthy relationships, personal care and body systems, growth and development, tobacco, alcohol and other drugs, diseases and disorders, and injury prevention. The class consists of text information, workbook, discussions and speakers.

MATH

Algebra I

This course applies algebraic operations to solve problems involving real numbers, equations and inequalities, functions, and probability and statistics.

Applied Math

This course applies problem solving techniques, algebraic operations, and principles of geometry to solve problems involving real numbers, consumer skills, measurement, data analysis, and probability and statistics.

Pre-Algebra

The study of applying algebraic concepts to solve problems involving real numbers, equations and inequalities, functions, probability and statistics and geometry. Students will develop confidence, creativity, and critical thinking skills.

Geometry

The study of applying algebraic and geometric principles to solve problems involving congruence, similarity, polygons, solids, circles, constructions, and coordinate geometry.

Advanced Math Course Description

This course applies algebraic, geometric and trigonometric principles, data analysis, probability and statistical methods, and discrete mathematics concepts, to the solving of problems. This course covers many math concepts not covered in previous math courses.

Advanced Algebra Course Description

This course applies algebraic and geometric operations to solve problems involving real and complex numbers, advanced mathematical principles, functions, two and three dimensional geometric concepts, matrices, sequences, series, and discrete mathematics concepts. This course is designed to prepare you for college level math.

Applied Geometry

This course applies algebraic and geometric principles to solve problems involving angles, congruence, similarity, polygons, solids, circles, constructions, and coordinate geometry.

Consumer Math

The mathematical study of personal finance and business finance in everyday living. Involving personal income, taxes, expenses, investing, insurance, recordkeeping, credit cards. Decision making on financial matters involving housing expenses, car expenses, insurance expenses, and expenses involved in owning a business.

MUSIC

Choir

Choir is a course on vocal production, proper vocal habits, and music history. This course focuses on learning music from a variety of style periods and genres.

Band

Band is a performance oriented ensemble. The band performs in a "pops" concert, a winter concert, which highlights our large group contest selections, and a small group and solo concert. They also perform at large group contest and small group contest at NDSU every year. The band is also responsible for performing 19 pep bands at home athletic events, along with being in a district rotation for basketball tournament play.

PHYSICAL EDUCATION (9-12)

Students will become proficient in the area of sports and games, through the application of developed skills. They will continue to develop an appreciation of lifetime fitness.

Weight Training

Weight training is an elective course open to sophomores, juniors and seniors. This course begins with an overview of equipment and proper technique. The instructor will assist students in developing a personal weight training program based on the students skills, needs and lifestyle. Grades are based on personal improvement, adherence to their program and overall attitude and participation.

SCIENCE

Physical Science

This course is an introduction to the sciences of chemistry and physics. Emphasis is placed on critical thinking skills, laboratory skills and problem solving skills.

Biology

Biology is a year long, required science class for sophomores. Students study cytology, genetics, taxonomy, evolution, botany, zoology, microbiology, animal dissection and North Dakota flora and fauna. Lab activities, hands-on learning, cooperative learning, and lecture (minimal) comprise the teaching techniques used. The use of technology is being implemented into the curriculum.

Chemistry

This course is an elective for juniors and seniors. Prerequisites for Chemistry are a "C" or better in the following classes; Physical Science, Biology, Algebra and Geometry. Good backgrounds in science and algebra are expected. Chemistry students will learn about the configuration of the atom, periodic table, solutions, gases, acids and bases, chemical reactions, etc. This is a four year college preparatory class for majors in all sciences, engineering, electronics, pharmacy, nursing, etc.

Physics

This course is an elective for seniors with strong backgrounds in science and math. Prerequisites for Physics are a “C” or better in Physical Science, Biology, Chemistry Algebra, Geometry, and Advanced Algebra. Physics students will learn about motion, vectors, dynamics, heat, color, waves, mirrors, lenses, energy, light, etc. Students will be expected to work in teams on various projects and are expected to be independent, self-motivated learners. This is a four-year college preparatory class for majors in engineering, electronics, medicine, architecture, physical therapy, etc.

Applied Science

This course is an elective for junior and seniors. Prerequisite for Applied Science is the successful completion of Physical Science and Biology. This course is designed for students who do not plan to attend a four-year university. Applied Science students will use the textbook, projects and other resources to study concepts in ecology, health, biology, chemistry and physics.

SOCIAL STUDIES

World History

Students will acquire and demonstrate historical thinking skills and historical understandings. They will view the world by comparing a variety of foreign cultures, and how and why they affected our lives and the history of the United States, that the world has become interdependent in an increasingly shrinking globe.

To gain this insight, students will be called upon to use/develop a chronological sense of history, think through cause-and-effect relationships, reach sound historical interpretations, and conduct historical inquiries and research leading to the ability and knowledge on which sound informed decisions in their contemporary life can be based.

U.S. History

Students will acquire and demonstrate historical understandings of the development of the United States. Emphasis will be place on instilling the pride and responsibility of citizenship, the positive character of the republican form of government, and the advantages of our system of free enterprise. Stress will be placed on the diverse cultural background of our nation and the forces that molded it.

Students will be called on to think chronologically, identify central themes and issues, read historical narratives, draw upon data from maps, graphs, and charts, obtain historical data, compare and contrast differing sets of ideas, and to make sound judgments and choices for their contemporary lives.

Government

The purpose of this course is to develop informed, responsible students who are interested in participating in our American system of government at the local, state and national levels. Students will be called upon to compare and contrast our system with the other major systems in the world, to investigate how the government of North Dakota operates within the framework of federalism, how our system of free-enterprise works within our framework of government, and our country operates within the global community.