

SUPERIOR HIGH SCHOOL



Course Offering Handbook

2021-2022

INTRODUCTION

The information in this handbook is for the purpose of providing an explanation of Superior High School's program of studies and the requirements for graduation.

Educational planning is important because it prepares students for future career and/or college choices. Making wise decisions in high school will allow students greater flexibility in their future.

It is important for students to have a tentative four-year course of study. This will help ensure meeting class and credit requirements, as well as allowing for prerequisites to be taken in a sequential order.

Course planning is a continual process. Students should prepare and plan carefully, with the help of their parents and counselor.

EDUCATIONAL AND CAREER CHOICES

Some students decide on a desired career at an early point in their education. Other students merely know they wish to pursue a certain level of education, taking advantage of career opportunities that arise through that course of study.

Matching knowledge of self and careers to educational requirements is extremely important. Decisions about preparation and skill level may affect future flexibility and career opportunities.

Some of the levels of training and education that may be required for various jobs include a high school diploma, on-the-job training, apprenticeship, certification, diploma, associate's degree, bachelor's degree, master's degree, and/or doctorate degree.

Students need to give careful consideration to their high school courses, as they are very meaningful to their future. Students will work toward one of three educational goals: earning a high school diploma, attending a vocational school, or obtaining a college degree.

High School Diploma~This goal is designed for students who do not plan to continue their education after high school, but wish to meet graduation requirements. In addition, they will choose elective courses that will be both interesting and beneficial to them following their graduation.

Vocational School~This educational goal is designed for students working toward a certificate, diploma, and/or an associate's degree. These students are encouraged to take high school courses that are related to their planned program of study.

College Degree~This course of study is for students planning to enter a college or university to pursue a bachelor's degree. Here are the basic entrance requirements for the University of Nebraska-Lincoln:

Language Arts~4 years of college preparatory English

Mathematics~4 years of math, including Algebra, Geometry, Advanced Algebra, Functions/Statistics/Trigonometry

Science~3 years of natural science

Social Science~3 years of social science

Foreign Language~2 years in the same language

Other Requirements~Graduate in upper half of class, or score a minimum composite of 20 on the American College Test (ACT)

NCAA CLEARINGHOUSE COLLEGE ATHLETIC REQUIREMENTS

This information has been taken from the National Collegiate Athletic Association (NCAA) *Guide for the College-Bound Athlete*, and is only a partial list of important information regarding course selection for those planning to participate in inter-collegiate athletics. Please consult an NCAA handbook for complete information.

Division I Academic Eligibility Requirements:

- Graduate from high school
- Successfully complete a core curriculum of at least 13 academic courses, [This core curriculum includes at least four years in English, two in math (one year of algebra and one year of geometry, or one year of a higher-level math course, for which geometry is a prerequisite), two in social science, two in natural or physical science (including at least one laboratory course, if offered by your high school); one additional course in English, math, or natural or physical science; and two additional academic courses (which may be taken from the already-mentioned categories, e.g., foreign language, computer science, philosophy.)].
- Consult the NCAA handbook for the qualifier index scale.

Division II Academic Eligibility Requirements:

- Graduate from high school
- Have a grade point average of 2.0 (based on a maximum of 4.0) in successfully completed core curriculum of at least 13 academic courses [This core curriculum includes three years in English, two in math, two in social science, two in natural or physical science (including at least one laboratory class, if offered by your high school); two additional courses in English, math, or natural or physical science; and two additional academic courses (which may be taken from the already-mentioned categories, e.g., foreign language, computer science, philosophy.)].
- Consult the NCAA handbook for the qualifier index scale.

SCHOOL PROFILE

Superior Public Schools
601 West Eighth Street
Superior, NE 68978
402.879.3257

Class Rank/Grading System

Class Rank and Grade Point Average are computed twice yearly in grades 9-12 at the conclusion of each semester. All students are included in Class Rank and all courses (with the exception of Teacher Aide and Driver's Education) are included in the cumulative Grade Point Average. The total grade points earned are divided by the total credits attempted.

98-100	A+	85-90	B	74-76	D+
93-97	A	82-84	C+	70-73	D
90-92	B+	77-81	C	0-69	F

Honor Roll

High Honor Roll represents an accumulative average in percentage grade courses of 93 percent or above, with no grade lower than an 86 percent, no letter grade lower than a B, and no incompletes for the quarter.

Honor Roll represents an accumulative average in percentage grade courses of 88 to 92 percent, with no grade lower than an 82 percent, no letter grade lower than a C, and no incompletes for the quarter.

Graduation Requirements

In order to graduate from Superior Public Schools, students in grades 9-12 must complete 48 credits and attend classes regularly for eight full semesters. Classes meeting five days per week for one semester earn one credit.

Specific Requirements

Language Arts~Eight credits are required, including English I, English II, English III, and English IV or College English.

Science~Six credits are required, including Biology.

Social Science~Six credits are required, including American History or College American History, and American Government.

Math~Six credits are required.

Vocational~Four credits are required, including Personal Finance.

Fine Arts~Two credits are required.

Physical Education/Health~Two credits are required, including Physical Education/Health.

COURSE OFFERINGS

In order to graduate from Superior Public Schools, students in grades 9-12 must complete 48 credits and attend classes regularly for eight full semesters. Classes meeting five days per week for one semester earn one credit.

Courses are listed in the section in which their credits count. The first year a student may take a class is listed in parenthesis following the course name. For example, Band (9) means a student may take Band as a freshman, or any year after that.

LANGUAGE ARTS

Eight credits are required, including English I, English II, English III, and English IV or College English.

ENGLISH I (9)
ENGLISH II (10)
JOURNALISM (10)
ENGLISH III (11)
COLLEGE ENGLISH (12)
ENGLISH IV (12)

SCIENCE

Six credits are required, including Biology.

EARTH SCIENCE (9)
PHYSICAL SCIENCE (9)
BIOLOGY (10)
ADVANCED BIOLOGY (11)
CHEMISTRY I (10)
CHEMISTRY II (11)
HEALTH SCIENCES (11)
PHYSICS (11)
PHYSIOLOGY (11)

SOCIAL SCIENCE

Six credits are required, including American History or College American History, and American Government.

WORLD HISTORY (9)
AMERICAN HISTORY (11)
COLLEGE AMERICAN HISTORY (11)
SOCIOLOGY (11)
PSYCHOLOGY (11)
AMERICAN GOVERNMENT (12)

MATHEMATICS

Six credits are required.

ALGEBRA I (8)
ALGEBRA IA (9)
ALGEBRA IB (9)
GEOMETRY (9)
ALGEBRA II (10)
BUSINESS MATH (11)
COLLEGE ALGEBRA (11)
PRE-CALCULUS (11)
COLLEGE CALCULUS (12)

VOCATIONAL EDUCATION

Four credits are required, including Personal Finance.

CHILD DEVELOPMENT (9)
CULINARY SKILLS (9)
PERSONAL FINANCE (9)
AGRICULTURAL SCIENCE (9)
PLANT SCIENCE (9)
CONSTRUCTION TRADES I (9)
MANUFACTURING PROCESSES-WOODS I (9)
DIGITAL MEDIA (9)
FOUNDATIONS OF WEB DESIGN (9)
INFORMATION TECHNOLOGY APPLICATIONS (9)
VIDEO PRODUCTION (9)
AGRICULTURAL LEADERSHIP (10)
AGRICULTURAL MECHANICS (10)
AGRONOMY (10)
ANIMAL SCIENCE (10)
ENGINES (10)
FOOD SCIENCE AND SAFETY (10)
HORTICULTURE (10)
LARGE ANIMALS (10)
WELDING I (10)
CONSTRUCTION TRADES II (10)
MANUFACTURING PROCESSES-WOODS II (10)
ACCOUNTING I (10)
ACCOUNTING II (10)
AGRIBUSINESS MANAGEMENT (11)
PRECISION AGRICULTURE AND ENGINEERING (11)
WELDING II (11)
CONSTRUCTION TRADES III (11)
MANUFACTURING PROCESSES-WOODS III (11)
ACCOUNTING III (11)
ACCOUNTING IV (11)
CONSTRUCTION TRADES IV (12)
MANUFACTURING PROCESSES-WOODS IV (12)
WELDING III (12)
CAREER INTERNSHIP (12)
INTRODUCTION TO INTERNSHIP (12)

FINE ARTS

Two credits are required.

ART I (9)

BAND (9)

CHORUS (9)

SPANISH I (9)

ART II (10)

SPANISH II (10)

ART III (11)

SPANISH III (11)

ART IV (12)

SPANISH IV (12)

PHYSICAL EDUCATION/HEALTH

Two credits are required, including Physical Education/Health.

PHYSICAL EDUCATION/HEALTH (9)

WEIGHTS (10)

ELECTIVES

Zero credits are required.

ONLINE COLLEGE CLASSES (11)

RESOURCE (9)

TEACHER AIDE (10)

NINTH GRADE REGISTRATION FORM

NAME _____

SOCIAL SECURITY NUMBER _____

STREET ADDRESS _____

CITY _____

STATE _____

PHONE _____

PLEASE CIRCLE EIGHT CLASSES.

LANGUAGE ARTS

ENGLISH I

MATHEMATICS

ALGEBRA I

GEOMETRY

ALGEBRA IA/IB

SCIENCE

PHYSICAL SCIENCE/EARTH SCIENCE

SOCIAL SCIENCE

WORLD HISTORY

VOCATIONAL EDUCATION

CHILD DEVELOPMENT/PERSONAL FINANCE

CULINARY SKILLS

AGRICULTURAL SCIENCE/PLANT SCIENCE

INFORMATION TECHNOLOGY APPLICATIONS/FOUNDATIONS OF WEB DESIGN

VIDEO PRODUCTION/DIGITAL MEDIA

MANUFACTURING PROCESSES-WOODS I

CONSTRUCTION TRADES I

FINE ARTS

BAND

CHORUS

ART I

SPANISH I

PHYSICAL EDUCATION/HEALTH

PHYSICAL EDUCATION/HEALTH

ELECTIVES

RESOURCE

ALTERNATE CLASS #1 _____

ALTERNATE CLASS #2 _____

CAREER INTEREST _____

STUDENT

SIGNATURE _____

TENTH GRADE REGISTRATION FORM

NAME _____

SOCIAL SECURITY NUMBER _____

STREET ADDRESS _____

CITY _____

STATE _____

PHONE _____

PLEASE CIRCLE EIGHT CLASSES.

LANGUAGE ARTS

ENGLISH I
ENGLISH II
JOURNALISM I

MATHEMATICS

ALGEBRA I
GEOMETRY
ALGEBRA II
ALGEBRA IA/IB
ALGEBRA IB

SCIENCE

PHYSICAL SCIENCE/EARTH SCIENCE
BIOLOGY
CHEMISTRY I

SOCIAL SCIENCE

WORLD HISTORY

VOCATIONAL EDUCATION

CHILD DEVELOPMENT/PERSONAL FINANCE
CULINARY SKILLS
AGRICULTURAL SCIENCE/FOOD SCIENCE AND SAFETY
AGRONOMY/HORTICULTURE
ANIMAL SCIENCE/LARGE ANIMALS
WELDING I
AGRICULTURAL MECHANICS/ENGINES
ACCOUNTING I/ACCOUNTING II
INFORMATION TECHNOLOGY APPLICATIONS/FOUNDATIONS OF WEB DESIGN
MANUFACTURING PROCESSES-WOODS I/AGRICULTURAL LEADERSHIP
MANUFACTURING PROCESSES-WOODS II-IV/CONSTRUCTION TRADES I-IV
VIDEO PRODUCTION/DIGITAL MEDIA

FINE ARTS

ART I
ART II
BAND
CHORUS
SPANISH I
SPANISH II

ELECTIVES

RESOURCE
TEACHER AIDE

PHYSICAL EDUCATION/HEALTH

PHYSICAL EDUCATION/HEALTH
WEIGHTS

ALTERNATE CLASS #1 _____

ALTERNATE CLASS #2 _____

CAREER INTEREST _____

STUDENT SIGNATURE _____

ELEVENTH GRADE REGISTRATION FORM

NAME _____
SOCIAL SECURITY NUMBER _____
STREET ADDRESS _____
CITY _____
STATE _____
PHONE _____

PLEASE CIRCLE EIGHT CLASSES.

LANGUAGE ARTS

ENGLISH I
ENGLISH II
ENGLISH III
JOURNALISM

MATHEMATICS

ALGEBRA I
GEOMETRY
ALGEBRA II
COLLEGE ALGEBRA/PRE-CALCULUS
ALGEBRA IA/IB
ALGEBRA IB
BUSINESS MATH

SCIENCE

PHYSICAL SCIENCE/EARTH SCIENCE
BIOLOGY
CHEMISTRY I
CHEMISTRY II
HEALTH SCIENCES
PHYSICS
PHYSIOLOGY
ADVANCED BIOLOGY

SOCIAL SCIENCE

WORLD HISTORY
AMERICAN HISTORY
COLLEGE AMERICAN HISTORY
SOCIOLOGY/PSYCHOLOGY

VOCATIONAL EDUCATION

CHILD DEVELOPMENT/PERSONAL FINANCE
CULINARY SKILLS
VIDEO PRODUCTION/DIGITAL MEDIA
AGRICULTURAL SCIENCE/FOOD SCIENCE AND SAFETY
AGRIBUSINESS MANAGEMENT
AGRONOMY/HORTICULTURE
ANIMAL SCIENCE/LARGE ANIMALS
MANUFACTURING PROCESSES-WOODS I/AGRICULTURAL LEADERSHIP
WELDING I
WELDING II
AGRICULTURAL MECHANICS/ENGINES
ACCOUNTING I/ACCOUNTING II
ACCOUNTING III/ACCOUNTING IV
INFORMATION TECHNOLOGY APPLICATIONS/FOUNDATIONS OF WEB DESIGN
MANUFACTURING PROCESSES-WOODS II-IV/CONSTRUCTION TRADES I-IV
PRECISION AGRICULTURE/PLANT SCIENCE

FINE ARTS

ART I
ART II
ART III
CHORUS
SPANISH I
SPANISH II
SPANISH III
BAND

ELECTIVES

RESOURCE
TEACHER AIDE
ONLINE COLLEGE CLASSES

PHYSICAL EDUCATION/HEALTH

PHYSICAL EDUCATION/HEALTH
WEIGHTS

ALTERNATE CLASS #1 _____
ALTERNATE CLASS #2 _____
CAREER INTEREST _____

STUDENT SIGNATURE _____

TWELFTH GRADE REGISTRATION FORM

NAME _____
SOCIAL SECURITY NUMBER _____
STREET ADDRESS _____
CITY _____
STATE _____
PHONE _____

PLEASE CIRCLE EIGHT CLASSES.

LANGUAGE ARTS

ENGLISH I
ENGLISH II
ENGLISH III
ENGLISH IV
COLLEGE ENGLISH
JOURNALISM

MATHEMATICS

ALGEBRA I
GEOMETRY
ALGEBRA II
COLLEGE ALGEBRA/PRE-CALCULUS
ALGEBRA IA/IB
ALGEBRA IB
BUSINESS MATH
COLLEGE CALCULUS

SCIENCE

PHYSICAL SCIENCE/EARTH SCIENCE
BIOLOGY
CHEMISTRY I
CHEMISTRY II
HEALTH SCIENCES
PHYSICS
PHYSIOLOGY
ADVANCED BIOLOGY

SOCIAL SCIENCE

WORLD HISTORY
AMERICAN HISTORY
COLLEGE AMERICAN HISTORY
SOCIOLOGY/PSYCHOLOGY
AMERICAN GOVERNMENT

VOCATIONAL EDUCATION

CHILD DEVELOPMENT/PERSONAL FINANCE
CULINARY SKILLS
VIDEO PRODUCTION/DIGITAL MEDIA
AGRICULTURAL SCIENCE/FOOD SCIENCE AND SAFETY
AGRIBUSINESS MANAGEMENT
AGRONOMY/HORTICULTURE
ANIMAL SCIENCE/LARGE ANIMALS
MANUFACTURING PROCESSES-WOODS I/AGRICULTURAL LEADERSHIP
WELDING I
WELDING II
WELDING III
ACCOUNTING I/ACCOUNTING II
ACCOUNTING III/ACCOUNTING IV
INFORMATION TECHNOLOGY APPLICATIONS/FOUNDATIONS OF WEB DESIGN
MANUFACTURING PROCESSES-WOODS II-IV/CONSTRUCTION TRADES I-IV
AGRICULTURAL MECHANICS/ENGINES
PRECISION AGRICULTURE AND ENGINEERING/PLANT SCIENCE
INTRODUCTION TO INTERNSHIP/CAREER INTERNSHIP

FINE ARTS

ART I
ART II
ART III
ART IV
SPANISH I
SPANISH II
SPANISH III
SPANISH IV
BAND
CHORUS

ELECTIVES

RESOURCE
TEACHER AIDE
ONLINE COLLEGE CLASSES

PHYSICAL EDUCATION/HEALTH

PHYSICAL EDUCATION/HEALTH
WEIGHTS

ALTERNATE CLASS #1 _____

ALTERNATE CLASS #2 _____

CAREER INTEREST _____

STUDENT SIGNATURE _____

LANGUAGE ARTS

**Eight credits are required,
including English I, English II, English III,
and English IV or College English.**

English I (9)

This course includes the exploration of basic grammar, literature and writing. Students will study three novels (To Kill A Mockingbird, The Pearl, and Night) and discuss related literary elements. There will be a unit on short stories and short story elements and poetry and poetry terminology. Students will also write different types of paragraphs, continuously read and discuss novels, and study vocabulary and mechanics. Journal entries will be recorded twice weekly. Grammar, usage, parts of speech, and sentence structure will be covered.

English II (10)

This course integrates grammar, punctuation, literature, and writing. Units include basic grammar, technical writing (thank you notes, resumes, cover letters, and memos), writing skills, speech, short stories, WWI and Vietnam War poetry, and novels. Novels covered may include The Christmas Carol, Of Mice and Men, Lord of the Flies, and Animal Farm. The play Romeo and Juliet will also be covered. Vocabulary will be a combination of words from standardized lists and words selected from reading materials.

Journalism (10)

This course explores the basics of news writing and yearbook production. Students will produce the school newspaper and the yearbook. This class requires the ability to accept responsibility and meet deadlines.

English III (11)

This course integrates American literature and writing. A research paper will be written. Students will develop skills to help them write persuasive essays. Literature will be analyzed both verbally and in writing. Vocabulary will be a combination of words from standardized lists and words selected from reading materials. Units include the 6 Traits Writing Assessment, short stories, poetry, and novels. Novels include The Scarlet Letter, The Adventures of Huckleberry Finn, The Great Gatsby, and The Grapes of Wrath.

College English (12)

This course is designed to develop writing skills. Students write papers and essays based on 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. The study of literature will introduce students to the major genres and conventions, which will include fiction, poetry, drama, and memoir. By employing critical reading and thinking skills and analytical and creative writing skills, students will understand literature more fully. Students will be exposed to a range of authors representing a variety of cultural and ethnic backgrounds. Seven novels, a collection of short stories, and poems will be used to generate the writing topics. Eight papers will be evaluated. The student's cumulative grade point average and standardized test scores will be considered for enrollment. This class provides a college-level experience and offers the potential for college credit.

English IV (12)

This course includes the study of vocabulary, reading, and various writing genres. There will be a usage/mechanics/sentence structure review. In addition, students will complete a research paper with outline, in-source citations, and reference list according to the Modern Language Association (MLA) format. Students will read and study two to four novels and review the elements of literature.

SCIENCE

**Six credits are required,
including Biology.**

Earth Science (9)

This course will cover star life cycles, Big Bang Theory, climate, weather, Earth's history, and how humans have impacted the Earth. Lecture, laboratory activities, written papers, and various projects will all serve as vehicles to achieve the course objectives.

Physical Science (9)

This course introduces students to chemical processes and physical laws. Topics include the metric system, Newton's Laws of Motion, forces, using simple machines, energy and work, momentum, waves, sound, the classifications of matter, chemical reactions, the states of matter, atomic structure, chemical bonding, solutions, and nuclear reactions.

Biology (10)

This course will cover the cell, the complexities of DNA, the interactions of organisms with each other and the ecosystems in which they live, genetics, evolution, and photosynthesis. Lectures, laboratory activities, written papers, and various projects will all serve as vehicles to achieve the course objectives.

Chemistry I (10)

This course teaches students how Chemistry relates to everyday life. Experiments, demonstrations, lectures, and problem-solving are combined to give students a better understanding of the study of matter, its structure, properties and composition, and the changes that it undergoes. Additional topics include chemical formulas and equations, atomic structure and bonding, acids and bases, and solutions.

Advanced Biology (11)

This course will cover water quality and ecology, biochemistry, mitosis and meiosis, genetics, and forensics. Lecture, laboratory activities, written papers, and various projects will all serve as vehicles to achieve the course objectives.

Chemistry II (11)

This course teaches a more complete understanding of chemistry and the products of chemical research, and how they are central to and intimately involved in almost every aspect of our contact with the material world. Students participate in higher level problem-solving and experiments. Topics include quantum mechanics, molecular geometry, chemical kinetics, chemical equilibrium, chemical thermodynamics, and electrochemistry.

Health Sciences (11)

This course provides students with a foundation in the field of healthcare. Students are exposed to a wide variety of potential career opportunities.

Physics (11)

This course deals with the relationship between matter and energy. Students will learn how matter and energy are related through classroom discussion, problem-solving, laboratory experimentation, and classroom activities. Topics include the laws of motion, the laws of work and force, energy and its conservation, heat and the structure of matter, wave motion, sound, light, electricity, electromagnetism, and nuclear physics.

Physiology (11)

This course is the scientific study of the structure and function of human cells, tissues, organs, and systems, as well as the common diseases that affect the human body. Written papers, laboratory experimentation, dissection, problem-solving, and classroom discussion will help students learn how the living body works.

SOCIAL SCIENCE

Six credits are required, including American History or College History, and American Government.

World History (9)

This course deals with the contributions of older civilizations on the contemporary world. Students identify world events and leaders, and study their effects on today's society.

American History (11)

This course traces the origins of American History beginning with the moment before Columbus' arrival to the present day.

College American History (11)

This course traces the origins of American History beginning with Pre-Columbian societies to the present day. The course is divided into nine units. Formal essays, essay tests, weekly quizzes and a history notebook will give students the opportunity to display mastery of the subject. The student's cumulative grade point average and standardized test scores will be considered for enrollment. This class provides a college-level experience and offers the potential for college credit.

Psychology (11)

This course is an introduction to the science of human and animal behavior. It will focus on the mental processes through various stages of development.

Sociology (11)

This course is an introduction to the origins, development, organization, and functions of human society. The fundamental laws of human social relations and various social institutions will be examined.

American Government (12)

This course examines the history and development of the American Government. Attention will be given to the three branches of government, political elections, the media, and interest groups. Political events that are relevant to the government are also examined.

MATH

Six credits are required.

Algebra I (8)

This course is designed to help students become better acquainted with the language of algebra, its concepts, and the application of the language skills that will help students solve mathematical problems in daily life. Students learn to describe the world around them with algebraic expressions, equations, graphs, and statistics. Applications, calculators, and computers provide a context for the abstract language of algebra.

Algebra IA (9)

This course is designed to teach students to solve and graph linear inequalities, absolute values, and equations of lines using a number line or the coordinate plane.

Algebra IB (9)

This course will teach students to solve expressions using properties of exponents, perform operations on and factor polynomials, and simplify radical equations.

Geometry (9)

This course teaches students to apply inductive and deductive reasoning to solve problems while using theorems, formulas, and properties of geometric figures and transformations. The students will also draw and construct geometric figures.

Algebra II (10)

This course provides students the opportunity to write, solve, and graph functions. Students will simplify, divide, and use multi-step factoring of higher order polynomials.

Business Math (11)

This course includes the study of bank and credit card accounts, full-time and overtime pay, medical and health insurance, and figuring paycheck taxes. Students will also work on a series of short placement tests in preparation for the ACT.

College Algebra (11)

This course is the study of relations, functions and their graphs, and systems of equations and inequalities. Students will explore polynomial and rational functions, as well as exponential and logarithmic functions. This class provides a college-level experience and offers the potential for college credit.

Precalculus (11)

This course integrates the conceptual underpinnings of calculus with the topics of discrete mathematics. Precalculus provides the opportunity for students to informally investigate the traditional concepts of calculus, such as maxima, minima, infinite sequences, limits, derivatives, and integrals. In addition, students work with the algebraic manipulation they will need in future courses. This is all continually applied to and illustrated by real-world applications of the topics. Discrete mathematics topics include formal logic, recursion, mathematical induction, combinatorics, and graph theory.

College Calculus (12)

This course covers the theory and applications of limits, derivatives, antiderivatives, definite integrals, and differentials of algebraic, trigonometric, logarithmic, and exponential functions. This class provides a college-level experience and offers the potential for college credit.

VOCATIONAL

Four credits are required, including Personal Finance.

Child Development (9)

This course integrates the knowledge, skills, and practices necessary for nurturing the growth and development of children. The study of the physical, emotional, social, and intellectual aspects related to prenatal through age twelve will be studied, in addition to the positive and negative factors that impact child growth and development.

Culinary Skills (9)

This course is designed to provide students with curriculum which is focused on the food service industry. Training will be provided in workplace and culinary skills, food safety and sanitation, interpersonal and communication skills, as well as an exposure to the areas of restaurant management and career exploration.

Personal Finance (9)

The goal of personal finance is to help students become financially responsible, conscientious members of society. This course develops student understanding and skills in money management, budgeting, financial goal attainment, use of credit, insurance, investments, and consumer rights and responsibilities. Application of academic concepts, technology, and career planning are integrated throughout the curriculum.

Agricultural Science (9)

This course introduces students to the basic components involved in an agricultural community. Topics include Agronomy, Animal Science, Animal Husbandry, Plant Science, and Soil Science. In addition, interested students are given the option of joining the FFA organization.

Plant Science (9)

This course examines the scientific concepts related to plant systems. Students will consider environmental factors on plant growth. In addition, they will examine plant classification, anatomy, physiology, and methods of propagation. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Construction Trades I (9)

This course provides students the opportunity to learn the many facets involved in the construction of a home, storage area, commercial building, or any free-standing structure, including reading plans, measuring, using scales and working with tools. In addition, they will study foundation work, framing, plumbing, electrical, and general building principles. Students will learn to select the right materials for the intended purpose, as well as explore the creative methods of producing a well-planned project and seeing it through the completion.

Manufacturing Processes-Woods I (9)

This course is designed to develop an understanding of the proper and safe use of hand and power tools associated with woodworking. A beginning project is assigned to the class as a group, with materials being paid for by the student.

Foundations Of Web Design (9)

Students will demonstrate knowledge of web design and languages, including HyperText Markup Language (HTML) and Cascading Style Sheets (CSS) to create a content-rich and visually pleasing website that captures and keeps visitors' interest. Focus will be given to effective page layout, image creation and manipulation, interactivity, content creation, and project management.

Digital Media (9)

This course teaches students to create, design, and produce digital media, including sound, video, graphics, text, and animation. Emphasis will be placed on the effective use of tools for interactive multimedia production, including storyboarding, visual development, project management, and web processes.

Information Technology Applications (Grade 9)

Students will explore emerging technologies as they apply to their success for high school, college, and career. The focus will be on the importance of digital citizenship, professional communication practices, advanced document processing, professional presentations, and intermediate spreadsheet and database applications used personally and professionally. The opportunity to become a Microsoft Office Specialist will also be available.

Video Production (9)

This course will enable students to expand their media skills of interviewing, reporting, writing, editing, photography/videography, and design. Students will explore careers while working together to create projects in a variety of media, such as web, podcast, and/or broadcast. The emphasis of Video Production is on collaboration and career exploration.

Agricultural Leadership (10)

This course promotes the overall learning of an individual's capabilities and leadership skills. Self-understanding is processed, as well as leadership styles, and how they have influenced our world. Students will also develop an understanding of the different agricultural support groups, while developing techniques to advocate for the industry.

Agricultural Mechanics (10)

This Power, Structural, And Technical Foundations course introduces selected major areas of agricultural mechanics technology, including small engine operation and repair, metal fabrication, woodworking, and electrical wiring. Learning activities include basic understanding, skill development and problem-solving.

Agronomy (10)

This course deals with the crop production aspects of agriculture--soil science, crop production, proper application of pesticides and herbicides, and the ability of the farmer and producer to create a productive and profitable enterprise. The diminishing returns of pesticides and herbicides will also be explored. Students will study land ownership, legal descriptions, tax basis, and sustainable agricultural production.

Animal Science (10)

This course familiarizes students with the animal science industry. They will study livestock, nutrition, animal health issues, and marketing schemes for beef, swine and, sheep. Students will learn to make decisions based on current industry trends in order to successfully manage their farming operation.

Engines (10)

This course will explore the basic parts of an internal combustion engine and describe its purpose and operation. Students will disassemble, measure, recondition, and reassemble a single cylinder engine.

Food Science And Safety (10)

This course introduces students to the principles, applications, and science of food, including 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, and regulations concerning the protection of the food supply and organic production of food and nutrition.

Horticulture (10)

This course is a comprehensive class that incorporates plant science, botany, and landscaping, and includes flower, shrub, and tree identification. Students will evaluate the business approach of plants, learn how to develop landscaping plans, and apply their knowledge in the form of a final project.

Large Animals (10)

This course covers livestock production through methods of grass identification, grazing techniques, and animal fabrication. Students will learn how to select both market and breeding animals based on criteria including skeletal structure, confirmation, and fat and muscling deposition. Primal, sub-primal, and retail meatcuts are discussed.

Welding I (10)

This course will teach students the practice of producing weld joints. Students will study Gas Metal Arc Welding, Shielded Metal Arc Welding, Oxygen-Acetylene Welding, and Plasma Arc Welding.

Construction Trades II (10)

This course provides a continuation of the overview of the construction materials, tools, and processes. It combines technical skills with planning and management to prepare the student for all stages of a project.

Manufacturing Processes-Woods II (10)

This course allows students to design and produce a project of their own choosing, with materials being the financial responsibility of the student.

Accounting I (10)

This course covers a service business organized as a sole proprietorship, which will include accounting principles involved in the preparation and maintenance of financial records concerned with business management and operations. It is a comprehensive introduction to basic accounting including recording, summarizing and reporting, principles of income measurement and asset valuation, and accounting systems and controls. Students are exposed to careers in the accounting field and are given the opportunity to perform accounting applications using technology.

Accounting II (10)

This course covers concepts of a merchandising business, which will include accounting principles involved in the preparation and maintenance of financial records concerned with business management and operations. It is a comprehensive introduction to basic accounting including payroll, related career opportunities, application of generally-accepted accounting principles related to recording, summarizing and reporting, principles of income measurement and asset valuation, and accounting systems and controls. Students are exposed to careers in and related to the accounting field, and are given the opportunity to perform accounting applications using technology.

Agribusiness Management (11)

This course investigates the business aspect of agriculture. Assets and liabilities, long-term assets and liabilities, and effective assets and liabilities, of the farming operation are discussed. Students will learn about taxes and the effect they have on farming. Liquidity and equity ratios will be discussed, as well as how to produce a total farm budget. In addition, students will study the business structures involved in agriculture. A final project covering the entire farming operation will be required.

Precision Agriculture And Engineering (11)

This course provides a general study of precision agriculture and the related engineering. It also provides the opportunity to explore the careers in agriculture related to precision agriculture.

Welding II (11)

This course will help students study metal fabrication and modern welding techniques, as they work to improve their skills in Gas Metal Arc Welding, Shielded Metal Arc Welding, Oxygen-Acetylene Welding, and Plasma Arc Welding. Students will also learn about project planning, customer relations, architectural drafting, and the use of a plasma table.

Construction Trades III (11)

This course provides a continuation of the overview of the construction materials, tools, and processes. It combines technical skills with planning and management to prepare the student for all stages of a project.

Manufacturing Processes-Woods III (11)

This course explores complex joinery and its necessary machine operations. Basic home construction practices and semi-advanced cabinet making skills are explored.

Accounting III (11)

This course includes partnership and corporate accounting. To further enhance their accounting skills, students will study adjustments in inventory control systems and departmentalized accounting.

Accounting IV (11)

This course provides the opportunity for advanced skills in partnership and corporate accounting. Students will examine diverse accounting principles within various organizations, as well as learn about adjustments in inventory and budgetary control systems.

Construction Trades IV (11)

This course provides a continuation of the overview of the construction materials, tools, and processes. It combines technical skills with planning and management to prepare the student for all stages of a project.

Manufacturing Processes-Woods IV (12)

This course allows students to continue to pursue their individual interests, while honing their industrial arts skills.

Welding III (12)

This course allows students to continue to pursue their individual interests, while honing their welding skills.

Career Internship (12)

This course allows students the opportunity to explore their individual career pathway interests by participating in a one-to-three period worksite internship experience. Students will work one-on-one with a company observing daily activities, as they learn about their particular industry. They will complete written assignments to help them understand and reflect what they have seen, heard, and discovered in the workplace. When appropriate, students may be asked to complete hands-on tasks assigned by their employers.

Introduction To Internship (12)

This course allows students the opportunity to explore their individual career pathway interests by participating in classroom and job shadowing experiences. Students will also research basic college information, as they begin making plans for their future.

FINE ARTS

Two credits are required.

Art I (9)

This course focuses on the elements of art: line, shape, form, color, space, texture, and value. In addition, students will study art history, learning about a variety of artists and artistic styles.

Band (9)

This course focuses on marching band fundamentals in the fall, pep band for home athletic events, and concert band in the winter and spring. Students refine skills in dynamics, expression, and individual technique through practical application and the learning of music from different historical eras and cultures. Students are assessed on musicianship and citizenship, and are able to share their accomplishments through participation in concerts, clinics, contests, and parades.

Choir (9)

This course is a traditional performing ensemble available to students who wish to continue the development of their vocal talents. Choral activities will consist of warm-ups, sight-singing skills, and proper vocal techniques, as well as performing a wide array of vocal repertoire. Students will participate in part-singing, ensemble performances, and will learn music from various eras and styles. Concerts, clinics, and contests will measure a solid choral understanding of the study of music. Assessment is centered on musical growth and citizenship.

Spanish I (9)

This course is an introduction to the language and culture of the Hispanic world. Students learn to interact and communicate in Spanish through reading, speaking, writing, and listening. Creative projects involving cultural aspects, iPads, language, history, art, food, and music help students gain a greater respect and understanding for other cultures. Most communication is done in the present tense. At the end of the year, students read a small novel, completely in Spanish!

Art II (10)

This course will help students expand their art education by identifying and improving both their strengths and weaknesses. Artists are exposed to a wide variety of artistic styles and techniques, and are encouraged to explore and use the creative side of their brains to complete art projects. Students will build on the foundation of Art I, creating more complex projects. Art history studies continue.

Spanish II (10)

This course allows students to develop their language acquisition by using phrases and more complex sentences to communicate. The four skills of reading, speaking, writing, and listening continue to be stressed as students read small novels, write creative stories, and converse in the target language. Cultural enrichment projects provide insights and help students to see the world with a more "open mind".

Art III (11)

This course builds on the foundation of previous art classes, where individuality and artistic personality is developed. Students are allowed to work independently to complete assignments. Art history studies continue.

Spanish III (11)

This course continues to help students with their developing level of language acquisition and adds a number of verb tenses: present, past, future, and commands. By the end of the class, students can converse well with Spanish speakers. Comprehension, both written and oral, is stressed. Reading, vocabulary development, and communication are emphasized.

Art IV (12)

This course continues to encourage artistic individuality. Students work independently to complete assignments and hone their artistic skills. Art history studies continue.

Spanish IV (12)

This course covers nearly all verb tenses, with the majority of the class conducted in the target language, which allows students to make full use of their skills. It is usually a fun atmosphere where individuals excel in a small-group setting. Students are also allowed to specialize their vocabulary to better equip them for their future jobs.

PHYSICAL EDUCATION/HEALTH

Two credits are required,
including Physical Education/Health.

Physical Education/Health (9)

This course covers the fundamentals of basic resistance lifts, how to monitor progress, and what major muscle groups are affected by each lift. Health components include the study of nutrition and fitness, substance abuse, preventing disease, safety, and first aid.

Weights (10)

This course challenges students to continue to develop their strength training skills. In addition, students will be taught activities in order to maintain a lifetime of health-enhancing physical activity.

ELECTIVES

Zero credits are required.

Resource (9)

Students with Individualized Education Plans have the opportunity for academic accommodations and additional study time.

Teacher Aide (10)

This course provides students with the opportunity to work in a classroom setting. A minimum 85% grade pointaverage is required. Students will receive one credit per year.

Online College Classes (11)

Various courses are available to students, but are subject to room availability and/or the scheduling.