



UNITY HIGH SCHOOL COURSE CATALOG



2022-2023

Unit 4 Mission

Community Unit School District #4, in cooperation with parents and community, will provide opportunities and encouragement for students to acquire skills, knowledge, and a sense of responsibility in a safe environment that will prepare them for their roles in a changing global society.

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Agricultural Department

MISSION

The mission of agricultural education is to prepare and support individuals for careers, build awareness, and develop leadership for the food, fiber, and natural resources systems.

FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth, and career success through agricultural education.

SCOPE OF AGRICULTURAL EDUCATION

CUSD 4 offers an extensive agricultural education program that meets the needs of all students by showing them the influence of agriculture in the community, state, nation, and world. The FFA organization and SAE are also implemented into the program as intra-curricular activities.

COURSE DESCRIPTIONS

INTRODUCTION TO THE AGRICULTURE INDUSTRY

- Credit: 1
- Grade Level: 9 -12
- Course status: Elective
- Prerequisites: High School status

This introductory course provides an opportunity to learn how the agricultural industry is organized, its components, and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, natural resources, and agribusiness management will be taught. Students will also learn about the FFA, Parliamentary Procedure and record keeping. FFA and Supervised Agricultural Experience (SAE) are integral components; therefore, students are required to maintain an SAE and encouraged to participate in FFA activities.

AGRONOMY

- Credit: 1 (counts as a non-college bound science credit toward graduation)
- Grade Level: 9-12
- Course Status: Elective
- Prerequisites: Introduction to the Agriculture Industry

This course builds on the basic skills and knowledge gained in the Introduction to the Agriculture Industry course. Major units of instruction are advanced soil and plant science. FFA and Supervised Agricultural Experience (SAE) are integral components of the course; therefore, students are required to maintain an SAE and encouraged to participate in FFA activities. This course can be used to fulfill one credit of science toward graduation.

ANIMAL SCIENCE

- Credit: 1 (counts as a non-college bound science credit toward graduation)
- Grade Level: 9-12
- Course Status: Elective
- Prerequisites: Introduction to the Agriculture Industry

This course focuses on the basic principles that are involved in animal physiology, breeding, nutrition, and care. Students will learn about beef cattle, dairy cattle, swine, sheep and goats, horses, and poultry. FFA and Supervised Agricultural Experience (SAE) are integral components of this course; therefore, students are required to maintain an SAE and are encouraged to participate in FFA activities. This course can be used to fulfill one credit of science toward graduation. ******This course is offered every other year***

AGRIBUSINESS MANAGEMENT

- Credit: 1 (counts as Consumer Education credit toward graduation)
- Grade Level: 9-12
- Course Status: Elective
- Prerequisites: Introduction to the Agriculture Industry

This course focuses on the study of agriculture as it applies to our economy. Units of study will include: types of business operations, management skills, job seeking skills, salesmanship in agriculture, and entrepreneurship. FFA and Supervised Agricultural Experience (SAE) are integral components of this course; therefore, students are required to maintain an SAE and are encouraged to participate in FFA activities. This course can be used to fulfill the consumer education credit toward graduation.

******This course is offered every other year***

HORTICULTURE I

- Credit: 1/2 (counts as a non-college bound science credit toward graduation)
- Grade Level: 9-12
- Course Status: Elective
- Prerequisites: Introduction to the Agriculture Industry

Basic horticultural science will focus on scientific principles applied to the horticulture industry. Units of study will include: plant science, plant propagation, and greenhouse management. Supervised Agriculture Experience (SAE) and FFA are integral components of this course; therefore, students are encouraged to maintain an SAE and to participate in FFA activities. This course can be used to fulfill one-half credit of science toward graduation.

HORTICULTURE II

- Credit: 1/2 (counts as a non-college bound science credit toward graduation)
- Grade Level: 9-12
- Course Status: Elective
- Prerequisites: Introduction to the Agriculture Industry

Major units of study are landscaping, integrated pest management and turf grass management. Students will design landscape plans to scale on both paper and using a landscape design computer program. Supervised Agriculture Experience (SAE) and FFA are integral components of this course; therefore, students are encouraged to maintain an SAE and to participate in FFA activities. This course can be used to fulfill one-half credit of science toward graduation.

INTRODUCTION TO AGRICULTURE MECHANICS

- Credit: ½
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: Concurrent enrollment or credit for Introduction to the Agriculture Industry

This course will concentrate on expanding student's knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are: design, construction, fabrication, maintenance, welding, electricity/electronics, internal combustion engines, hydraulics, and employability skills. Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector, welder, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

AGRICULTURAL CONSTRUCTION I

- Credit: ½
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: Introduction to Agriculture Mechanics, Introduction to the Agriculture Industry

This course is designed to introduce students to the Carpentry/Carpenter occupation. Students are instructed in areas of safety, including hand tool, power tool, ladders, and much more. Students demonstrate knowledge of blueprint reading and design for small woodworking projects. Students demonstrate entry-level skills in basic carpentry, woodworking, joinery, and woods. Technology-related mathematics, reading, writing, vocabulary, blueprint reading, and science are integrated throughout the curriculum.

AGRICULTURAL CONSTRUCTION II

- Credit: ½
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: Introduction to Agriculture Mechanics, Introduction to the Agriculture Industry, Agricultural Construction I

This course provides learning experiences related to the erection, installation, maintenance and repair of building structures and related utilities. Students are instructed in areas of safety, including hand tool, power tool, ladder, scaffolding and the use of safety harnesses. Students demonstrate knowledge of exterior trim and finishes, energy conservation in residential construction, and design of stairs and rafter building. Students gain knowledge of planning and zoning regulations and building codes. Students are introduced to estimating both materials and construction costs, and demonstrate basic knowledge in applying drywall materials, stair-building skills, designing and erecting wall partitions, applying roofing materials, and installing common siding and interior finish. Technology-related mathematics, reading, writing, vocabulary, blueprint reading, and science are integrated throughout the curriculum.

AGRICULTURAL POWER

- Credit: ½
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: Introduction to Agriculture Mechanics, Introduction to the Agriculture Industry

This course is designed to take the preemptive knowledge gained in other mechanics courses (Mech & Tech, Small Engines) and apply it on a much broader level. Students will understand the basics of power systems (gas, diesel, solar, wind, electric) and demonstrate these concepts in a wide range of laboratory experiences. Multiple cylinder engine repair, diesel mechanics, electric engines, and many other topics fall into this course. Technology and other STEM areas play a role in most of this class. Students will have several opportunities to demonstrate and expand their knowledge and practice the concepts in the lab setting.

AGRICULTURAL WELDING 1

- Credit: ½
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: Introduction to Agriculture Mechanics, Introduction to the Agriculture Industry

Agriculture Welding courses provide students with the skills and knowledge that are specifically applicable to the tools and equipment used in the agricultural industry. In learning to apply basic industrial knowledge and skills (engines, power, welding, and carpentry, among others), students may explore a broad range of topics, including the operation, mechanics, and care of farm tools and machines; the construction and repair of structures integral to farm operations; an introduction or review of electricity and power; and safety procedures. Students will gain a basic knowledge of welding processes and concepts after which they will demonstrate the processes in practical application.

AGRICULTURAL WELDING 2

- Credit: ½
- Grade Level: 10, 11, 12
- Course Status: Elective
- Prerequisites: Introduction to Agriculture Mechanics, Introduction to the Agriculture Industry, Welding 1

This course builds on the skills and concepts introduced in Welding Technology I and provides more in-depth skill development in various types of welding including horizontal, vertical, overhead, and circular techniques. Students also explore the use of robotic and automated production welding.

SMALL ENGINES

- Credit: ½
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: Introduction to Agriculture Mechanics, Introduction to the Agriculture Industry

This course will introduce students to the processes involved in small gas engine functions and maintenance. Students will understand the names and functions of all safety practices, tools and engine components. Students will demonstrate this knowledge in a small engine disassembly, diagnosis and reassembly

ADVANCED AGRICULTURAL MECHANICS

- Credit: ½
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: Introduction to Agriculture Mechanics, Introduction to the Agriculture Industry, and departmental approval

This course will concentrate on expanding student's knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are design, construction, fabrication, maintenance, welding, electricity/electronics, internal combustion engines, hydraulics, and employability skills. Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector, welder, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Art Department

ART I

- Credit: 1
- Grade Level: 9,10, 11,12
- Course Status: Elective
- Prerequisites: High School Status

This course is designed for first year art students. It provides an introduction to a variety of art media and techniques, laying a solid foundation for future art classes. In the first semester, the content areas include: drawing techniques using the Elements of Art and Principles of Design. The second semester studies color theory and design techniques using colored pencils, pastels, printmaking, and more.

2D DESIGN

- Credit: ½
- Grade Level: 10, 11, 12
- Course Status: Elective
- Prerequisites: Art I

Deals with two-dimensional applications using the media; colored pencils, charcoal, chalk pastels, pen and ink, printmaking, and graphite., Focus is applied on the design and the composition of the artwork.

3D DESIGN

- Credit: ½
- Grade Level: 10, 11, 12
- Course Status: Elective
- Prerequisites: Art I

The course deals with three-dimensional artistic applications such as sculpture, weaving, felting, and plaster. The focus on the design of the artwork itself and its composition.

PAINTING

- Credit: ½
- Grade Level: 10, 11, 12
- Course Status: Elective
- Prerequisites: Art I

In keeping with this attention on two-dimensional work, students typically work with several media (such as watercolor pencils, watercolor, and acrylics).

POTTERY

- Credit: ½
- Grade Level: 10, 11, 12
- Course Status: Elective
- Prerequisites: Art I

Focus on creating three-dimensional works out of clay and ceramic material. Particular attention is paid to the characteristics of the raw materials, their transformation under heat, and the various methods used to create and finish objects.

GRAPHIC ARTS

- Credit: ½
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: High School Status

Students will learn Adobe Suites programs such as Photoshop, Illustrator, and InDesign. Projects covered will be skills learned from tools and techniques in each of these programs.

GRAPHIC COMMUNICATIONS

- Credit: ½
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: High School Status

Students will learn how to create projects that can be used in the work field using multiple programs such as Photoshop, Weebly, iMovie, design websites such as Pixlr, and more. Projects covered are: designing ads and infomercials, business cards, t-shirt designs, cd covers, cereal boxes, and many more.

Business Department

COMPUTER APPLICATIONS

- Credit: 1/2
- Grade Level: 9, 10, 11, 12
- Course Status: Required
- Prerequisites: None

Students will use Microsoft Office to learn word processing applications. Topics include managing files; creating, saving, and printing documents; formatting and editing documents; text enhancements; macros; columns and tables; envelopes and labels; and desktop publishing

CONSUMER EDUCATION

- Credit: ½
- Grade Level: 11, 12
- Course Status: Required
- Prerequisites: None

This course covers the role of consumers in a free market economy. Subject areas include consumer rights and responsibilities, budgeting and money management, banking services, credit options and bankruptcy, insurance, taxes and buying techniques for food, automobiles, and housing.

MARKETING I

- Credit: ½
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: None

Topics covered in this course include the 4 P's product, price, place, promotion; Target market; Marketing mix; and branding. In the course, various projects will be completed. Careers in marketing, soft skills, and digital communication will also be covered.

MARKETING II

- Credit: ½
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: Marketing I

Using the information from Marketing 1, students create their own business along with a complete marketing plan. All of the businesses together create a city. Students look at placement, infrastructure, and advertising. They then present their business and marketing plan as a final presentation.

Driver's Education

DRIVER'S EDUCATION CLASSROOM PHASE

- Credit: 1/4
- Grade Level: 9, 10
- Course: Elective– Must pass this course with a C (70%) or better to take driving
- Prerequisites: 15 years old by 2 weeks prior to end of semester enrolled, and according to Illinois law, must have passed eight courses during the previous two semesters prior to enrolling in driver education.
- A **\$200.00** classroom fee will be required prior to class enrollment. A State charge of **\$20.00** for the Learner's Permit (plus first driver license) will be collected by the License Officer on the day of the permit vision testing.

This phase of driver's education will instill in the student the basic knowledge needed to begin driving. Areas such as basic Illinois traffic laws, proper driving attitudes, alcohol and driving, and dealing with a variety of driving demands. The student will also have a basic understanding of the functions of the automobile. This phase of driver's education must be passed with a grade level of C (70%) or better, in order to receive the instruction permit. The instruction permit test will be given at the end of the semester course, and must also be passed according to Illinois state law requirements.

DRIVER'S EDUCATION DRIVING PHASE (C 70%) grade must have been obtained in classroom phase)

- Credit: 1/4
- Grade level: 9, 10, 11 (depending on birth date)
- Course Status: Elective
- Prerequisites: Successful completion of classroom phase; and Sec. of State written test, plus pass eye examination and according to Illinois law, must have passed eight courses during the previous two semesters prior to enrolling in driver's education.

This phase of driver's education allows a practical application of driving skills with hands-on, supervised driving. Driving skills include: backing, parking, turnabouts, hill parking, city driving, interstate driving, and all beginning from the basic skills to the more complex. Students will be taken out of physical education class to drive; therefore, they must be passing P.E. in order to leave class to drive. It may be possible for students to proficiency out of part of the driving portion of driver's education. This will be determined by testing from the driver's education teacher.

English Department

ENGLISH I

- Credit: 1
- Grade Level: 9
- Course Status: Required
- Prerequisites: High School Status

Students will develop skills to tackle challenging works of literature and compose a variety of writing pieces. The skills taught throughout the semester are skills that will help prepare students for future upper level English classes, as well as beyond the classroom. Aside from iconic novels, students will also read short stories, poetry, and non-fiction works. In addition, there is also a daily emphasis on grammar correction and vocabulary retention. Throughout the semester, students will be asked to explore, enjoy, and inquire about the texts/topics looked at together as a class.

ENGLISH II

- Credit: 1
- Grade Level: 10
- Course Status: Required
- Prerequisites: Completion of Eng. I

Students will develop skills to tackle challenging works of literature and compose a variety of writing pieces. The skills that are taught throughout the semester are skills that will help prepare students for English 3 and 4, as well as beyond the classroom. Aside from iconic novels, students will also read short stories, poetry, and non-fiction works. In addition, there is also a daily emphasis on grammar correction and vocabulary retention that is built from the previous year.

ENGLISH III

- Credit: 1
- Grade Level: 11
- Course Status: Required
- Prerequisites: Completion of Eng. II

This course includes a study of American Literature, and the class is geared toward preparing students for upper-level coursework through a focus on literary skills, grammar, analysis, and writing. Poetry, short stories, and novels are given special emphasis. Essay writing and grammar lessons help to improve communication skills in both the spoken and written word. Journal work, critical analysis, creative writing, choice novel portfolio, and a research paper are other additional projects that may be covered throughout the course. Understanding Americans as a cultural phenomenon underlies many units, and the reading material covers literature from 1500 to present day. This class is writing intensive, and material to prepare for the SAT is emphasized.

ENGLISH IV

- Credit: 1
- Grade Level: 12
- Course Status: Required
- Prerequisites: Completion of Eng. III

English IV runs in alternating fashion with English III, the former having American literature as its basic reading material, the latter using English literature. Major course focus is geared toward the English novel. In addition, it includes units in Anglo-Saxon, Medieval, and Elizabethan epic, and lyric poetry. College level research writing is a significant part of this course, with students completing 1-2 research papers. Additional writing assignments may include bi-weekly expository essays based upon literary analysis. This course will also include an extensive Shakespeare unit, and students will be expected to analyze sonnets and several plays. This class is writing intensive.

ACT/SAT ENGLISH PREPARATION

- Credit: ½
- Grade Level: 11
- Course Status: Elective
- Prerequisites: None

This course assists students in developing and/or expanding their vocabulary, test-taking, and reasoning skills through study, lecture, and practice drills. Course topics may include vocabulary review; root words, prefixes, and suffixes.

World Language Department

**World languages will be offered through our online learning platform, Apex.

SPANISH I

- Credit: 1
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: High School Status

Spanish I will focus on gaining a functional vocabulary bank and an understanding of the basic grammar structures in the Spanish language. Students will be required to write and speak Spanish in classroom situations, as well as understand when others are speaking with them. To balance the massive grammar of a foreign language, students will learn many of the cultural contrasts and comparisons between the United States and Hispanic countries. The main aim is movement toward fluency, and writing and speaking with proficiency.

SPANISH II

- Credit: 1
- Grade Level: 10, 11, 12
- Course Status: Elective
- Prerequisites: Spanish 1

Spanish II is a continuation of Spanish I. Students will gain a larger vocabulary bank and knowledge of the more advanced grammar structures. The focus on proficiency in speech and writing is maintained as students find themselves speaking more and more in the target language. Cultural awareness continues to be stressed.

SPANISH III

- Credit: 1
- Grade Level: 11, 12
- Course Status: Elective
- Prerequisites: Spanish 1, 2

Spanish III is a continuation of Spanish 2. Students will gain a larger vocabulary bank and knowledge of the more advanced grammar structures. The focus on proficiency in speech and writing is maintained as students find themselves speaking more and more in the target language. Cultural awareness continues to be stressed. This class is primarily based on oral and written communication within the subject matter.

Health Department

HEALTH

- Credit: 1/2
- Grade Level: 9, 10, 11, 12
- Course Status: Required
- Prerequisites: High School Status

Health Education is a required one-semester course that is recommended for students in the 9th or 10th grades. The purpose of Health Education is to assist the student in developing desirable health knowledge, attitudes, and practices which can help to determine the overall mental, physical, social, and emotional health of that person in later life. This course covers the topics of nutrition, growth and development, disease, drug abuse, alcohol and tobacco, physical health, mental health, social health, environmental health, well-being and family life. This course is designed to help the student understand the relationship between the physical, emotional, and social aspects of his or her life. The student will be made aware of the health problems within their environment in hope of finding ways of coping with these problems. The subject areas that may be covered include: human ecology, human growth, prevention and control of disease, safety education, mental health, solving health problems of the future, alcohol, drug use and abuse, tobacco, nutrition.

FIRST AID AND SAFETY

- Credit: 1/2
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: None

Major area to be covered will be American Red Cross Breathing and CPR, as well as Community First Aid (i.e. disaster response, choking, bleeding, splinting, fractures, dislocations, sprains/strains, burns, exposure to heat/cold, poisoning, hypothermia, and shock).

HEALTH II

- Credit: 1/2
- Grade Level: 9, 10, 11, 12
- Course Status: Elective
- Prerequisites: None

This course covers the topics of nutrition, growth and development, disease, drug abuse, alcohol and tobacco, physical health, mental health, social health, environmental health, well-being and family life. An emphasis is placed on nutrition, mental health, developing an exercise and eating routine/patterns, along with going more in depth in discussing topics of human growth, prevention and control of disease, safety education, alcohol/tobacco/drug abuse topics.

HIGH SCHOOL PHYSICAL EDUCATION

- Credit: 1
- Grade Level: 9,10,11,12
- Course Status: Required
- Prerequisites: High School Status
- Materials: PE uniform and shoes

Physical Education contributes to the development of the physical, mental and social situations through exercise and participation.

Objectives:

1. To develop basic skills and techniques for participation in both individual and team sports.
2. To develop a knowledge of the rules of the various sports and activities.
3. To encourage teamwork as well as development of leadership qualities, that will be valuable in adult life.
4. To encourage students to use the abilities they have to gain the most out of body control and coordination.
5. To develop an awareness of safety during sport participation.

Mathematics Department

GEOMETRY

- Credit: 1
- Grade Level: 9, 10, 11, 12
- Course Status: Required
- Prerequisites: Successful completion of Algebra I
- Materials Needed: Scientific calculator

This course introduces the concepts of proofs or deductive reasoning, congruency in segments, angles, and triangles, perpendicularity, parallel lines and coordinate geometry. Upon completion of this course, the student is expected to understand and apply geometric concepts and relations in a variety of forms.

ALGEBRA 2A

- Credit: 1
- Grade Level: 10,11,12
- Course Status: Required
- Prerequisites: Successful completion of Geometry or teacher approval
- Materials needed: Graphing calculator (TI 83 Plus)

This is the first course in the Algebra 2 sequence. Linear equations, relations and functions, quadratic functions, polynomials, and inverses and radical functions are covered.

ALGEBRA 2B

- Credit: 1
- Grade Level: 11, 12
- Course Status: Required
- Prerequisites: Successful completion of Geometry or teacher approval
- Materials needed: Graphing calculator (TI 83 Plus)

This is the second course in the Algebra 2 sequence. A review of Algebra IIA concepts as well as exponential and logarithmic functions, rational functions, statistics and probability, and trigonometric functions are covered.

ADVANCED ALGEBRA 2

- Credit: 1
- Grade Level: 10, 11, 12
- Course Status: Required
- Prerequisites: Successful completion of Geometry and teacher approval
- Materials needed: Graphing calculator (TI 83 Plus)

This course is accelerated and combines both years of Algebra 2 into one year. Linear equations, relations and functions, quadratic functions, polynomials, and inverses and radical functions, exponential and logarithmic functions, rational functions, statistics and probability, and trigonometric functions are covered.

PRE-CALCULUS

- Credit: 1
- Grade Level: 11, 12
- Course Status: Elective
- Prerequisites: Successful completion of Algebra II or teacher approval.
- Materials needed: Graphing Calculator (TI 83 Plus)

This is an advanced course in high school math that covers in part the following: Review of Algebra II, review of geometry, trigonometry of right triangles, trigonometry of scalene triangles, logarithms and exponents, advance graphing of curvilinear figures, complex number systems, geometric constructions, graphing trigonometric functions, and advance word problems

CALCULUS

- Credit: 1
- Grade Level: 12
- Course Status: Elective
- Prerequisites: Successful completion of Algebra II, teacher approval
- Materials needed: Graphing Calculator (TI 83 Plus)

This is the most advanced course in mathematics offered. Topics include review of Algebra II and Trigonometry concepts. Geometry concepts, real and imaginary number systems, functions and graphing, polar & rectangular coordinate systems, limits and basic differentiation and integration techniques and their applications.

Music Department

HIGH SCHOOL BAND

- Credit: 1
- Grade Level: 9,10,11,12
- Course Status: Elective
- Prerequisites: 1 year playing experience on a band instrument. Must be able to read music. Must be willing to perform outside of school time: football games, basketball games, parades, concerts, and contests.
- Materials: Students must purchase the following: White marching shoes, black slacks, black shoes, white button front shirt with collar, cleaning fee for marching uniform and concert coat.

High School Band is a musical performing organization, which is broken down into marching band, pep band, and concert band. The marching band runs from August through October. The group performs at all local home football games, the Homecoming parade and 3 to 4 other parades in the area. The pep band performs at all home basketball games from December through February. The concert band runs from November through May. This group is the main musical performing organization in the school. The concert band performs 3 concerts a year: Christmas, winter, and spring. They also attend the I.H.S.A. band contest and perform for graduation. The objective is to develop an aesthetic value that will lead to a more enriching life. This is done through skill development in performance and by listening to an extensive repertoire. Also by setting high standards of musicianship, theory, and skill development a student can grow to a greater understanding and appreciation for music.

CHORUS

- Credit: 1
- Course Status: Elective
- Grade Level: 9, 10, 11, 12
- Prerequisites: None

The High School Chorus is a performance-based class with one of its primary objectives being to help students develop vocal skills through individual and ensemble performance. Activities will involve performing in class, outside of class, and several weekend concerts and contests depending upon the time of the year. NOTE: Participation in the outside activities will be mandatory. Another primary objective for the class is to develop a deeper understanding and appreciation for music and especially vocal music performances. Care of the voice as well as performance etiquette will also be emphasized. Other areas such as performance attire, grading parameters, etc. will be set up by the director. The director will set up ammeters, etc. in the fall.

Science Department

GENERAL SCIENCE

- Credit: 1
- Grade Level: 9
- Course Status: Required
- Prerequisites: Freshman Status and teacher recommendation

This course is designed for those students who have difficulty with science. The class is broken down into four units beginning with science lab safety, skills, and equipment. Other units are: Earth's Waters (lakes, rivers, oceans, ground water, etc.); Earth's Changing Surface (topographic maps, erosion, weathering, soils); (If time allows other topics) Cells and heredity (cell structure, DNA. DNA fingerprinting, and heredity), A research project is required that determines 1/4 of the 4th quarter grade.

BIOLOGY

- Credit: 1
- Grade Level: 10,11,12
- Course Status: Elective
- Prerequisites: None

Biology is the study of life. Basic biological principles and theories are presented so the student may understand activities and functions common to all living things. Topics covered include: cells, genetics, ethical issues, plants, and animals. Research and lab work including the dissection of plants and animals is performed. Students should understand that biology is considered necessary for the college-bound student.

CHEMISTRY I

- Credit: 1
- Grade Level: 11, 12
- Course Status: Elective
- Prerequisites: Successful completion of Algebra I or teacher approval, Biology

Chemistry I is designed to cover the fundamental concepts of the chemical nature of matter. Topics covered include: matter, atomic structure, periodic law, bonding, equations, types of reactions, gases, liquids, solids, solutions, and ionization. Labs will be performed.

CHEMISTRY II

- Credit: 1
- Grade Level: 11, 12
- Course Status: Elective
- Prerequisites: Chemistry I, Algebra II or teacher approval

Chemistry II picks up where Chemistry I concludes. Topics covered include; acids/bases, pH, titration, organic chemistry, reaction kinetics.

ANATOMY & PHYSIOLOGY

- Credit: 1
- Grade Level: 10, 11,12
- Course Status: Elective
- Prerequisites: Biology

This class is geared toward those students interested in the medical field. The course includes cells and tissues, as well as the major systems of the human body: skeletal, muscular, nervous, circulatory, digestive, endocrine, respiratory, urinary, and reproductive. During the first semester, students will learn anatomy and function of all organ systems in humans. The second semester will contain at least one smaller physiology project.

PHYSICS

- Credit: 1
- Grade Level: 11,12
- Course Status: Elective
- Prerequisites: Successful completion of Algebra II or teacher approval

Physics is the study of the material world. Topics will include: mechanics, light, sound, electricity, magnetism, gravitation, and Einstein's theories of relativity. A major project will be completed each semester.

EARTH SCIENCE

- Credit: ½
- Grade Level: 10, 11, 12
- Course Status: Elective
- Prerequisites: None

Earth Science courses offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, this course also explores oceanography, geology, astronomy, meteorology, and geography.

FORENSIC SCIENCE

- Credit: ½
- Grade Level: 10, 11, 12
- Course Status: Elective
- Prerequisites: None

Forensic science is the application of science to the criminal and civil laws that are enforced by police agencies in a criminal justice system. Forensic science involves chemistry, biology, physics, geology, and computer technology, which are useful for determining the evidential value of crime-scene and related evidence. Forensic psychology, anthropology, and odontology also encompass important and relevant areas of knowledge and practice in law enforcement, each being an integral part of the total forensic science service that is provided to any up-to-date criminal justice system. In addition, the class will focus on the FBI crime laboratory, where the principles and techniques of the physical and natural sciences are practiced and applied to the analysis of crime-scene evidence. The class will explore the differences between the real world criminal investigations vs. television shows that are not accurate interpretations of criminal investigations also known as the "CSI effect." Lastly, the class will look at famous criminal cases and take a closer look at the crimes and evidence involved in them.

MICROBIOLOGY

- Credit: ½
- Grade Level: 10, 11, 12
- Course Status: Elective
- Prerequisites: None

Microbiology courses provide students with a general understanding of microbes, prokaryotic and eukaryotic cells, and the three domain systems. Additional topics covered may include bacterial control, cell structure, fungi, protozoa, viruses and immunity, microbial genetics, and metabolism.

ZOOLOGY

- Credit: ½
- Grade Level: 10, 11, 12
- Course Status: Elective
- Prerequisites: None

Zoology courses provide students with an understanding of animals, the niche they occupy in their environment or habitat, their life cycles, and their evolutionary relationships to other organisms. This course also helps students develop an awareness and understanding of biotic communities.

Social Science/History Department

WORLD HISTORY

- Credit: 1
- Grade Level: 9,10, or teacher approval
- Course Status: Required
- Prerequisites: None

The World History course spans the progress of human's political, religious, social, and economic development. The objectives of this program are:

1. To stimulate an interest in the world as a community of cultures.
2. To provide students with an understanding and appreciation of their role in the world.
3. To present them with man's activities as an interrelated and continuous process.
4. To promote critical thinking about man's past and its application to the future.

UNITED STATES HISTORY

- Credit: 1
- Grade Level: 9,10,11
- Course Status: Required
- Prerequisites: None

This course surveys the major periods in American history from reconstruction to the 1930's a cursory review of the Civil War is also included. The text traces the political, economic, military, social, and religious path of America's development. The objectives of the course are:

1. To stimulate an interest in the study of American history and culture.
2. For the students to acknowledge America's past as a guide for the future.
3. To present the students with man's activities as a related body of progress.
4. To promote critical thinking.

CONTEMPORARY AMERICAN HISTORY

- Credit: ½
- Grade Level: 9,10,11,12
- Course Status: Required
- Prerequisites: None

This course will cover the time period from World War II up to the present time. Emphasis will be placed on World War II, the Cold War, and the social undercurrents of the 1950's leading up to and focusing on the unrest of the 1960's. Vietnam, Watergate, the place of the U.S. in a global economy, and the ramifications of the fall of communism in Europe would be important issues of focus as well.

CIVICS

- Credit: 1/2
- Grade Level: 11,12
- Course Status: Required
- Prerequisites: None

Students are taught that if the government is to be effective, they must stay informed, make decisions, vote, hold office, and remain alert to the actions of the public officials to whom we entrust. Objectives include:

1. To stimulate an interest in and an appreciation of our government.
2. To provide students with an essential understanding of the operations of our government.
3. To promote careful thinking about government problems.
4. To encourage active participation in government activities.

GEOGRAPHY

- Credit: 1
- Grade Level: 10, 11, 12
- Course Status: Elective
- Prerequisites: None

Topics include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

Student Improvement Department

TEACHER ASSISTANT

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective
- Prerequisites: No courses previously failed, office skills, no discipline or attendance problems

Seniors that wish to work in the offices or library will be selected by the Principal. Only Seniors with good grades and positive citizenship records need apply. A Teacher Assistant may be used in the high school or middle school as needed.

COOPERATIVE WORK SKILLS (classroom phase)

- Credit: 1
- Grade Level: 12
- Course Status: Elective
- Prerequisites: Good standing with school- no discipline problems or excessive absenteeism.

This class is devoted to a wide variety of job skills. Job seeking and job keeping skills will be covered including resumes, letters of applications, interviewing, getting along with people, following directions, conflict resolution, communication skills, professionalism, team work, telephone techniques, basic filing rules, and other basic job skills. Each student will develop a career portfolio for current and future use. This class will provide training in job seeking skills and people skills that will help students achieve success in the work world.

WORKPLACE SKILLS

- Credit: 1 +
- Grade Level: 12
- Course Status: Elective
- Prerequisite: Successful participation in the classroom phase of Work Skills, good standing with school- no discipline problems or excessive absenteeism and valid driver's license, insurance, and transportation to job sites. *****MUST HAVE JOB SECURED BY FIRST DAY OF CLASS. If a job has not been secured by the first day of class, a different schedule will be assigned to the student.**

Workplace Skills involves work based learning experiences at local businesses in each student's area of individual interest. The student will receive NO compensation for the work done at the business. The job site situation is for the benefit of the student to gain work experience in real work situations and to gain experience in real work situations and to gain practical job skills.

John Wood Community College Dual Credit Courses

Students must be of senior standing to take dual credit courses, with the exception of juniors being allowed to take BIO101 and SCI100. Students must receive permission to take dual credit courses. Students also must have at least a 2.8 GPA. The expense of dual credit courses will be covered by the student and their family. Dual credit courses are a great way to get ahead on college credits before leaving high school. The classes listed below are some of the most popular, but students are allowed to take any online JWCC class.

ENG101 RHETORIC & COMPOSITION I - 3 college credit hours

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective; Counts as English IV credit in combination with ENG102
- Prerequisites: None

An introductory course in writing at the college level with attention to skills needed at each stage of the writing process. Placement in ENG 101 presupposes competence in English grammar, mechanics, punctuation, and spelling.

ENG102 RHETORIC & COMPOSITION II - 3 college credit hours

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective; Counts as English IV credit in combination with ENG101
- Prerequisites: Must have completed ENG101 with at least a “C”

A continuation of ENG 101; provides further practice in writing at the college level for a variety of purposes and audiences, using both fixed and open or developing forms. Research paper required.

BIO101 GENERAL BIOLOGY - 4 college credit hours

- Credit: 1/2
- Grade Level: 11, 12
- Course Status: Elective
- Prerequisites: None

An introductory biology course covering the chemistry of living organisms, cellular biology, cellular respiration, photosynthesis, genetics, and topics in evolution. Current issues related to the aforementioned topics are discussed. 3 lecture hours, 2 lab hours.

SCI100 ENVIRONMENTAL GEOLOGY - 4 college credit hours

- Credit: 1/2
- Grade Level: 11, 12
- Course Status: Elective
- Prerequisites: None

An introductory study of forces that continually shape the surface of the earth, including examination of geological formation processes and our impact on the environment. 3 lecture hours, 2 lab hours

CMN101 INTRODUCTION TO SPEECH - 3 college credit hours

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective
- Prerequisites: None

An introduction to the basic principles of oral communication as applied to public speaking. The course emphasizes the mastery of oral communication skills through a variety of exercises in which the student speaks before the group. Involves analysis of such topics as preparation, organization, and delivery.

PSY101 INTRODUCTION TO PSYCHOLOGY - 3 college credit hours

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective
- Prerequisites: None

Basic introduction to the major areas of psychology--the study of behavior and the mind. Areas of emphasis include human development, personality theory, learning, thinking, stress and motivation, mental illnesses, and biological and social aspects of behavior. Course will combine research with real life application throughout

SOC101 INTRODUCTION TO SOCIOLOGY - 3 college credit hours

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective
- Prerequisites: None

This course is an introduction to sociology as a way of understanding the world and how it applies to everyday life. Major theoretical perspectives and concepts are presented including socialization, culture, the social construction of knowledge, social control and deviance, inequality, race and ethnic relations, poverty, and the sociological imagination

MAT109 ELEMENTARY STATISTICS - 3 college credit hours

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective
- Prerequisites: None

A study of the collection and interpretation of statistical data. Specific topics include description of sample data, probability, probability distributions, sampling, estimation, testing hypotheses, correlation, and regression.

MAT113 COLLEGE ALGEBRA - 3 college credit hours

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective
- Prerequisites: None

This course is intended for students who plan to continue their college mathematics education or to meet college transfer requirements. Topics include advanced factoring of higher order polynomials; solving quadratic inequalities; advanced topics in relations, functions and their graphs; zeroes and graphs of polynomial and rational functions; and exponential and logarithmic functions.

MAT114 TRIGONOMETRY - 3 college credit hours

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective
- Prerequisites: None

This course is intended for students who plan to continue their college mathematics education or to meet college transfer requirements. It is the study and analysis of the sine, cosine, tangent, secant, cosecant, and cotangent function; show these functions are used to solve many types of problems involving the sides and angles of triangles; and how these functions are used to solve many types of problems involving cyclic patterns, some that vary with time. Topics include definitions, properties and manipulation of trigonometric functions; applications of trigonometric functions; analytic trigonometry; trigonometric form of complex numbers; and polar coordinates, equations and graphs.

OFT281 MEDICAL TERMINOLOGY - 3 college credit hours

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective
- Prerequisites: None

Teaches medical language of prefixes, suffixes, and combining forms. Students will learn to pronounce and spell medical terms and also learn how to combine prefixes, suffixes, and combining forms to describe a medical term. Course utilizes a body system approach focusing upon specific body systems and providing a brief overview of anatomy and physiology, pathology, word roots, related terms, and special procedures with emphasis on building a working medical vocabulary based on body systems.

SPN101 ELEMENTARY SPANISH I - 4 college credit hours

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective
- Prerequisites: None

Fundamentals of grammar and pronunciation, with emphasis on reading, writing, and conversation. Also incorporates geography, customs, and cultures of the Spanish-speaking world. 3 lecture hours, 2 lab hours

SPN102 ELEMENTARY SPANISH II - 4 college credit hours

- Credit: 1/2
- Grade Level: 12
- Course Status: Elective
- Prerequisites: Must have completed SPN101 with at least a “C”

Continuation of Elementary Spanish I, continuing to emphasize development of proficiency in the language in five areas: listening, speaking, reading, writing, and cultural understanding. In class, students will be actively engaged in communicating in Spanish and learning about the Spanish-speaking world. 3 lecture hours, 2 lab hours

Special Education Department

Basic English and Foundations of English I, II, III, IV

- Credit: 1
- Grade Level: 9, 10, 11, 12
- Course Status: Requirement
- Prerequisites: Placement by IEP team

This course provides students with instruction in functional reading and writing skills. Students will also learn writing skills that they will use for real-world situations. Students will also work on expressive and receptive language skills through interactive learning. Individualized instruction is given to a student based on goals in the student's IEP and previous course

Foundations of Biology

- Credit: 1
- Grade Level: 9, 10, 11, 12
- Course Status: Requirement
- Prerequisites: None

This is a full-year course designed to introduce students to important concepts of life science: ecology, cells, genetics, evolution, microbiology, plants, and animals. Emphasis will be placed on the relevance of life science topics to daily life. The class will also focus on the development of science skills such as graphing, data collection, and laboratory methods.

Foundations of Science

- Credit: 1
- Grade Level: 9, 10, 11, 12
- Course Status: Requirement
- Prerequisites: None

This course covers many areas of science, including, Life Science, Physical Science, and Earth Science. In this course, health units are also covered, including personal health, nutrition, medicines and drugs, and disease control and prevention. Individualized instruction is given to a student based on goals in the student's IEP and previous course.

Functional Math and Math 1, 2, 3, 4

- Credit: 1
- Grade Level: 9, 10, 11, 12
- Course Status: Requirement
- Prerequisites: None

This course focuses on real life math skills, number sense, telling time, money recognition, and measurement. Individualized instruction is given to a student based on goals in the student's IEP and previous course.

Foundations of World History

- Credit: 1
- Grade Level: 9, 10, 11, 12
- Course Status: Requirement
- Prerequisites: None

This one-year course is the study of the historical development of human cultures. The goal of this course is to illustrate the diversity and similarities of cultures and their interaction throughout history and to show how these cultural differences and similarities are relevant today

Foundations of U.S. History

- Credit: 1
- Grade Level: 9, 10, 11, 12
- Course Status: Requirement
- Prerequisites: None

This course, which fulfills a graduation requirement, covers United States history from the migration of the first Americans to North and South America to our present time. The first semester will consist of a detailed study from the founding of the United States through Reconstruction. The second semester will cover the time period from Post-Reconstruction to the present, which includes a focus on labor unions.

Foundations of Contemporary U.S. History

- Credit: ½
- Grade Level: 11, 12
- Course Status: Requirement
- Prerequisites: None

This current events course will help foster greater awareness and interest in community, state, national, and international issues. As the world develops into a more globally connected society, understanding the world on a larger scale is a necessity for a well-rounded education. The current events class will further help the understanding of key events that are of great impact in the world and consequently the United States. This class will be guided by the most pressing issues of the day. These may be social, political, or economic in nature. This may count as social studies elective.

Foundations of Civics

- Credit: ½
- Grade Level: 11,12
- Course Status: Requirement
- Prerequisites: None

This one-semester course includes a study of local, state, and national government and civic education. This course is required for graduation. The American Government course focuses on government institutions, political activities, the Flag Code, the Illinois and the U.S. Constitution, civil rights, and the Americans with Disabilities Act. Civic education is designed to help young people acquire and learn to use the skills, knowledge, and attitudes that will prepare them to be competent and responsible citizens. Content is focused on government institutions, the discussion of current and controversial issues, service learning, and simulations of the democratic process.

Life Skills

- Credit: ½
- Grade Level:
- Course Status: Elective
- Prerequisites: None

This course focuses on daily living and other life skills presented in whole group, small group, and individualized settings. Students will work on building independence in grooming and personal hygiene, washing and folding laundry, basic house-keeping, some bathing, and putting on/buttoning/ zipping clothing

Job Skills

- Credit: ½
- Grade Level:
- Course Status: Elective
- Prerequisites: None

Designed to help students become more independent as they learn and apply basic skills critical to entering the workforce. This class gives students the tools necessary for successfully seeking and securing employment. Some skills included in this course are managing money and personal budgets, using media to find jobs, role plays to improve social skills, use of public transportation, telephone skills, public service, hygiene/proper dress and cooking.

Foundations of Computers

- Credit: ½
- Grade Level:
- Course Status: Requirement
- Prerequisites: None

This is a semester course which is designed to provide students the opportunity to gain the skills needed to effectively use a variety of software applications for their own personal use and future employment opportunities.

Foundations of Consumer Education

- Credit: ½
- Grade Level:
- Course Status: Requirement
- Prerequisites: None

This course covers the role of consumers in a free market economy. Subject areas include consumer rights and responsibilities, budgeting and money management, banking services, credit options and bankruptcy, insurance, taxes and buying techniques for food, automobiles, and housing.

Grade Weighted Courses

Grade weighting: The classes listed below carry more grade points than other courses because they are generally accepted as college level or more advanced courses.

- Pre-Calculus
- Calculus
- Chemistry II
- Physics
- Anatomy and Physiology
- Microbiology
- Zoology
- CEO program
- Dual credit courses