Ansonia High School

CURRICULUM GUIDE

2022-2023

BRIEF HISTORY OF ANSONIA HIGH SCHOOL

The bell tower section was constructed in 1903, to replace the original structure built in 1873, and housed the entire Ansonia School District.

Expansion came in 1917 when the new high school building was erected. Additional room was necessary in 1936 and this construction joined with the 1903 and 1917 buildings.

Further expansion came with the building of a new K-12 facility. Students moved into this building in the fall of 2002.

A COMPREHENSIVE HIGH SCHOOL

Ansonia High School has a highly qualified and very dedicated teaching staff. These teachers are providing the students with a very comprehensive education. The academic programs (56 units of credit) offered at Ansonia are designed to prepare students to attend college, technical school, work in business, agriculture, homemaking or employment on the open market. The program does include remedial work to provide for students with various types of learning disabilities.

Ansonia also offers a number of extracurricular and co-curricular activities. The athletic program offers opportunities for physical achievement in football, volleyball, boys' and girls' basketball, baseball, softball, bowling and boys and girls track and cross-country. Other co-curricular activities include marching band and choral music. There are several academic clubs and organizations for students involvement including: Student Council, Varsity "A" Club, Drama club, Spanish Club, Science Club, High Q, and National Honor Society.

Guidance services are provided for all students and parents. Guidance services range from career counseling to academic counseling to helping students deal with personal issues to a variety of things in between!

HIGH SCHOOL PHILOSOPHY

The secondary school program, the curriculum content, and the methods of instruction must be differentiated to meet with the needs and capacities of all youth. It develops a total program of education whereby every individual, regardless of ability or talent, can profit by this learning experience and demonstrate this gain by contributing to the improvement of society. This diversified educational program should provide the opportunity for each individual to develop a self-image with which he can live comfortably and to use his talents fully and responsible as a youth and an adult.

Ansonia High School - Graduation Requirements for Class of 2023 & Beyond

1. **1. Course Completion**: Students will satisfy Ohio's curriculum requirements and any additional local requirements. Students will earn 23 credits, with specific unites required in each content area.

    - 4 English credits
    - 4 math credits
        - Including Algebra 1, Geometry, & Algebra 2
        - Algebra 2 alternatives:
            - Statistics
            - Approved Career-Based math classes (MVCTC Only)
    - 3 science credits
        - Biology, Physical Science, and one advanced science
    - 3 social studies credits
        - World History, US History, and Government
    - Health (1/2 credit)
    - Physical Education (1/2 credit)
    - 1 Fine Art credit
        - Band, Choir, and/or Visual Art
    - Financial Literacy (1/2 credit)
        - Any Guidance Counselor approved Financial Lit. class
    - Electives (6.5 credits

2. **Competency Demonstration**: Students must demonstrate competency in math and English by earning competent scores as adopted by ODE on the Algebra and ELA 2 End-of-Course exams. Students who have taken required tests more than once without passing and have received remedial support are able to show competency through one of the options below:

    - Earn credit for one math and/or one English course through College Credit Plus;
    - Demonstrate career readiness and technical skill through foundational and supporting options
    - (Demonstrate 2; at least one must be a foundational skill):
        - Foundational:
            - Proficient scores on 3 WebXams
            - Earn a 12 point credential
            - Participate in a pre-apprenticeship or be accepted into an approved apprenticeship program
        - Supporting
            - Work based learning experience
            - Proficient score on WorkKeys
            - Earn the Ohio Means Jobs Readiness Seal
    - Enter into a contract to enlist in the military upon graduation.

3. **Readiness Demonstration**: Students must earn two diploma seals, one of which must be state defined, to demonstrate academic, technical and professional readiness for careers, college, the military, or self-sustaining professions.

State Defined

OhioMeansJobs Readiness Seal
State Seal of Biliteracy
Industry-Recognized Credential Seal
College Ready Seal
Military Enlistment Seal
Science Seal
Honors Diploma Seal
Technology Seal
Citizenship Seal

Locally Defined

Community Service Seal
Fine and Performing Arts Seal
Student Engagement Sea

Locally Defined Seals (Class of 2023 & Beyond)

Community Service Seal – 20 hours

Fine and Performing Arts Seal – Earn 4 total credits

- Art
- Band
- Choir

Student Engagement Seal – Participate in 4 or more activities over 4 years***

- Drama or other extracurricular clubs
- Junior Job Shadowing
- Senior Interview Event
- College visits
- Create resume
- Other approved activities

***Student is responsible for providing proof/documentation of participation.

Additional Notes:

Dropping a Course
At the beginning of the school year, students are given the first week of school to make schedule changes. After the first week, students are not permitted to drop a course without teacher or guidance counselor permission. Students that choose to drop a class without teacher or guidance counselor permission will receive an F for the class. In this instance, a parent/guardian must approve this course of action.

College Credit Plus (CCP) Students
Ansonia students that are participating in CCP are required to take at least three (3) classes per semester. This minimum includes CCP classes and classes offered at Ansonia High School.

Valedictorian, Salutatorian, and Top Ten Recognition at Graduation
To qualify for valedictorian, salutatorian, or recognition in the top ten, students must take and pass at least five (5) college preparatory classes during high school.

2022-2023 Course Descriptions

Agriculture Education

Ag Classes Offered for 2022-2023

Ag Business Management **1 Credit**

Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified. FFA Membership is required.

Ag Mechanics & Woodworking (Capstone) **1 Credit**

Students apply Agricultural and Environmental Systems program knowledge and skills in a more comprehensive and authentic way. Capstones are project/problem-based learning opportunities. Students will learn the principles of power technology equipment systems which will include electronic and electrical systems, engines and fuels, hydraulic systems and power train components. Additionally, students will learn to safely operate and maintain machinery and equipment along with the principles of welding and metal fabrication. FFA Membership is required.

Animal Health **1 Credit**

Students will examine causes, symptoms, and treatment of common diseases with emphasis on developing preventative health management plans. Topics will include the study of pathogens, and classifying types of diseases and disorders. Students will perform animal health assessments and compare to standard characteristics. Throughout the course, students will utilize principles of technology to manage information systems, and research issues affecting the industry.
FFA Membership is required.

Greenhouse and Nursery Management **1 Credit**
Greenhouse Mastery **1 Credit**
Greenhouse Plants **1 Credit**

Students will learn the operational practices needed for the successful growth of nursery stock and/or greenhouse plants. They will learn essential greenhouse practices including water and fertilizer distribution, lighting, ventilation and temperature control. Students will learn pest and disease identification and control along with bio-security practices. Students will demonstrate knowledge of propagation methods, plant health, nutrition, and growth stimulation. Throughout this course, business and employability skills will be emphasized. FFA Membership is required.

Livestock Selection **1 Credit**

Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance. FFA Membership is required.

Ag Classes Offered for 2022-2023 (Continued)

Mechanical Principles **1 Credit**

Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identify, diagnose, and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills. FFA Membership is required.

Ag Classes NOT Offered for 2022-2023

Agriculture, Food and Natural Resources **1 Credit**

This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry. FFA Membership is required.

Agronomy **1 Credit**

Students will apply knowledge and skills required to research, develop, produce and market major agricultural and horticultural crops. Cultural and sustainable production practices will be examined while students apply scientific knowledge of plant development, nutrition and growth regulation. The knowledge and skills needed to manage water, soils, and pests related to agronomic crops will be assessed. Students will employ technological advances, communication, business, and management strategies appropriate for the industry. FFA Membership is required.

Alternative Energy & Biofuels **1 Credit**

Students will be introduced to the scientific and technical processes of biofuel/bioenergy production. Learners will evaluate the energy conversion process and methods for optimizing the fermentation process. Students will identify the systems and components employed by fermentation systems and communicate safe handling techniques of biomass, effluent and biogas. Throughout the course, students will evaluate environmental impacts, life-cycle analysis, and economic analysis of bioenergy production. FFA Membership is required.

Animal Anatomy and Physiology **1 Credit**

Students will examine the structure and function of the major organ systems as well as the function and principle of blood flow in animals. Students will study internal and external anatomical parts, their functions, and will investigate the relationship among these parts and systems within the body of animal. Throughout the course, students will apply the internal functions of anatomical structures to the business and industry principles of the animal industry. FFA Membership is required.

Ag Classes NOT Offered for 2022-2023 (Continued)

Animal and Plant Science **1 Credit**

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined. FFA Membership is required.

Animal and Plant Biotechnology **1 Credit**

Learners will apply principles of chemistry, microbiology and genetics to plant and animal research and product development. Students will apply genetic principles to determine genotypes and phenotypes. Students will describe the parts and functions of animal and plant cells and their importance in biochemistry. They will perform restrictive enzyme digests, Polymerase Chain Reactions and apply principles of nucleic acid blotting. This course will examine applications of Central Dogma Theory and other Molecular-Genetics Technologies. FFA Membership is required.

Engines and Electrical **1 Credit**

Students will apply basic principles of energy accounting, thermodynamics and heat transfer, energy conversion and efficiency to heating, power generation and transportation. Students will apply the principles and practices needed for managing renewable and non-renewable energy resources. Throughout this course, future energy systems and energy use scenarios are investigated, with a focus on promoting the use of renewable energy resources and technologies. FFA Membership is required.

Environmental Science for Agriculture and Natural Resources **1 Credit**

Students will study relationships between organisms and their environment. Principles of biogeochemical cycles, air-water-land relationships, non-point pollution, and wetlands will be applied. Students will examine fundamentals of resource development, agriculture sustainability, energy needs and pollution control. They will analyze and interpret data gathered from studies on the ecosystem. Throughout this course, students will develop responses to environmental problems and develop management strategies for responsible conservation and resource development.
FFA Membership is required.

Floral Design and Marketing **1 Credit**

Students will use principles and elements of design to create various types and styles of floral arrangements with natural and artificial plants and plant products. Topics will include identification of ornamental plants and cut flowers, use of design materials, and storage and handling applications. Students will develop successful business, communication, marketing, and sales strategies for use in the floral industry. FFA Membership is required.

Food Science **1 Credit**

Students will examine the research, marketing, processing and packaging techniques applied to the development of food products. Learners will examine nutrient content and their chemical makeup, while applying principles of chemistry to the development of food products. They will examine and implement food safety, sanitation, and quality assurance protocols. Government regulations and food legislation will be examined and the implications to food science and technology will be identified. FFA Membership is required.

Ag Classes NOT Offered for 2022-2023 (Continued)

Forestry and Woodland Ecosystems **1 Credit**

Students will apply principles of botany and dendrology to the management of forests and forest ecosystems. They will apply principles of timber cruising with surveying and mapping techniques to take forest measurements. Learners will develop the knowledge and skills necessary for forest reforestation, timber stand improvement, timber harvesting and forest product utilization. Learners will operate and maintain forestry equipment, apply fire management practices, and understand related regulations, laws, and policy issues. FFA Membership is required.

Horticulture **1 Credit**

This first course in the pathway focuses on the knowledge and skills required to research, develop, produce and market agricultural, horticultural, and native plants and plant products. Students will apply principles of plant physiology and anatomy, plant protection and health, reproductive biology in plants, plant nutrition and disorders to the management of soils and plants. Throughout the course, students will learn communication, leadership, and business management skills reflective of the industry. FFA Membership is required.

Landscape Design **1 Credit**

Students will learn skills in creating blueprints, estimates and landscaping designs. Topics include basic principles of design, engineering, drawing and drafting techniques including the use of technology such as computer-aided design. Students will incorporate principles of hardscapes and examine the use of artificial lighting, water systems, and creative features in their designs. Throughout the course, business management practices, employability skills, and safety procedures will also be emphasized. FFA Membership is required.

Landscape Hardscapes **1 Credit**

Students will learn skills in constructing and installing hardscape features in a landscape. Topics include basic principles of building and implementing designs drawn and drafted from computer-aided designs and blueprints. Students will install artificial lighting, water systems, deck and creative concrete features on job sites. Throughout the course, business management practices, employability skills, and safety procedures will also be emphasized. FFA Membership is required.

Landscape Systems Management **1 Credit**

Students will learn methods for establishing and managing landscapes to promote growth and balance. The classification and care of woody and herbaceous landscape plants will be learned. Students will learn to optimize growing conditions, balance nutrients, and manage pests and disease. They will apply proper planting, fertilizing, and pruning techniques while safely operating well maintained specialized equipment. Throughout the course, students will assess implications of landscape installation on the environment, and employ communication, business, and management strategies.
FFA Membership is required.

Park and Recreational Management **1 Credit**

Students will design facilities, develop educational programs and manage resources for use in public recreation. Students will maintain and operate equipment for maintaining wildlife habitat and supporting a variety of public recreational activities and facilities. Throughout the course, students will develop marketing and programming skills for park development, apply management practices to park operations and learn the systems required to maintain public safety. FFA Membership is required.

Ag Classes NOT Offered for 2022-2023 (Continued)

Turf Science and Management **1 Credit**

Students will apply principles of science, engineering, and business to support the establishment and maintenance of residential, athletic and recreational turf. Students will learn techniques for the establishment, care, production, and marketing of turf grass along with safe operation and maintenance of specialized equipment. Throughout the course, environmental awareness and conservation practices will be emphasized along with communication, business, and management strategies appropriate for the industry. FFA Membership is required.

Veterinary Science **1 Credit**

Students will learn causes, symptoms, and treatment of common diseases with special emphasis on developing preventative health management plans and breeding programs. Topics include veterinary pharmacology, radiology and imaging techniques, principles of surgery, safe laboratory skills, and the concepts of ethics and professionalism in the work place. Students will develop skills in inquiry and statistical methods. Throughout the course, learners will utilize principles of technology to manage information systems, and research issues affecting the industry. FFA Membership is required.

Zoo and Aquarium **1 Credit**

Students will apply responsible animal science principles and routine husbandry practices to captive animal populations. Learners will apply knowledge of animal behavior, welfare, and husbandry principles to enhance exhibit design, animal enrichment and training plans, and educational engagement programs. Emphasis will be given to data collection and research techniques. Students will apply principles of responsible population control, disease risk and management, and problem solving/action planning techniques. FFA Membership is required.

ART

Visual Art **1 Credit**

A study of the knowledge, skills and processes for observing, creating, responding and communicating in ways that are unique to visual art. Art production and the construction of meaning in visual artworks are complementary learning activities. Course content may include meaningful connections between visual art and other disciplines to enable students to understand art in a broader context. Various media in the 2-D and 3-D realms will be explored including: pencil, pen, charcoal, pastel, block printing, watercolors, acrylics, clay, and modeling.

Ceramics 1 (w/ CCP credit option) & Ceramics 2 **1 Credit**

Prerequisites: Visual Art

Extensive techniques in using clay and other materials are investigated as means for creating three-dimensional artistic forms. Students will also focus on the creation of original objects with clay using hand building, wheel forming, and glazing techniques. Professional sculptors' works and objects created by professional ceramists are examined for their expressive, formal, and technical qualities.

2-D Foundations (w/ CCP credit option) **1 Credit**

Prerequisites: Visual Art

Pencil, pen and ink, chalk, charcoal, acrylics, oils, watercolors and block printing are explored to create original personal images. Drawings and paintings by culturally and historically representative artists are examined for their formal, expressive, and technical qualities.

Digital Photography (w/ CCP credit option) **1 Credit**

Prerequisites: Visual Art

Computer design is explored to develop understanding of techniques, processes and possibilities of electronic media to understand, create and appreciate visual art. This introductory course deals with controlling computer technology to produce artistic images. Students will learn computer illustration techniques, image manipulation, graphic design visual literacy, and the principles and elements of art in composition.

Advanced Visual Art **1 Credit**

Prerequisites: Visual Art and one additional art class (Ceramics, Drawing & Painting or Graphic Arts). Must have received a C or higher in 2 previous Art courses.

An advanced course of organized subject matter and experiences in art. Works from different cultures and time periods as well as those created by the students are studied. This course is to serve as a continuation of the knowledge gained in one or more of the following courses: Ceramics, Drawing & Painting, and Graphic Arts. The course will be a guided independent study that allows for more freedom in the creation of the student's own ideas as s/he develops a deepened understanding of the chosen media and works to strengthen techniques and processes.

TECHNOLOGY

Technology 101 **1 Credit**

Students will explore the various types of software and hardware used in education and the workplace. Students will explore Microsoft Office. They will do activities in Word, Excel, and PowerPoint and also explore Prezi. They will learn how to create more powerful documents and learn how to complete them in a shorter period of time. They will also learn how to type code to create their own websites using HTML and JavaScript. Students will explore other software programs including but not limited to: Scratch, Small Basic, MIT AppInventor, W3Schools.com, Windows Movie Maker, Adobe Premiere Pro, and Photoshop. Students will also be trained in the basic nuts and bolts of the computer, and so that students can support other students and adults in the classroom, troubleshooting steps to solve basic technological problems are taught.

MUSIC

Music is taken as an elective credit and counts as a fine art credit.

High School Band **1 Credit/Full Year Course**

A study of music theory and history explored through the development of technique on musical instruments. Students will get a variety of performance experience through participation in marching, pep, and concert band. There are performance obligations, including summer participation. *Band is a full year course. Class time is one-half of last block.*

High School Choir **1 Credit/Full Year Course**

A study of musical theory and history explored through the development of vocal ability. Students will benefit from performance experience through participation in concerts and contests. There are performance obligations. *Choir is a full year course. Class time is one-half of last block.*

YEARBOOK

Yearbook is taken as an elective credit.

Yearbook (w/ CCP credit option) **2 Credits/Full Year Course**

This course is designed to teach:

1. Initial planning, fact finding, and decision making
2. Production fundamentals, content coverage, layout design, typography and artwork
3. Finance, selling books ads, and other money-making projects

Students will become proficient using Adobe Photoshop and Yearbook Avenue. Students are also required to demonstrate leadership skills as well as agree to return for five or more days in June to finish the yearbook, if necessary. *Yearbook is open to sophomores, juniors, and seniors and is a full-year course. Teacher approval is required.*

FAMILY AND CONSUMER SCIENCES

Classes Offered for 2022-2023

Culinary Fundamentals **½ Credit**

In this course, students will apply fundamental culinary techniques, such as knife handling skills and the recognition, selection and proper use of tools and equipment. An emphasis will be placed on mise en place, the management of time, ingredients and equipment. Students will apply standard recipe conversions using proper scaling and measurement techniques.

Financial Literacy **½ Credit**

In this course, students will study public policy and consumer behavior related to consumer economics. Throughout the course, students will examine laws and regulations that affect the consumer. Students will develop personal financial plans for individual personal well-being. Throughout the course, students will develop financial literacy skills to provide a basis for responsible citizenship and career success. Additional topics will include consumer expenditures, consumer fraud, global economy, large purchases, contracts, analyzing services from financial institutions, consumer protection, investing and risk management.

Interior Design, Furnishings and Management **½ Credit**

In this Family and Consumer Sciences career field course, students will examine design principles used in residential interiors. An emphasis will be placed on incorporating anthropometrics, ergonomics and psychological responses. Additional topics will include the selection and organization of furnishings, floors and wall coverings in living spaces, kitchens and baths.

Nutrition and Wellness **½ Credit**

In this course, students will use principles of nutrition to ensure a healthy body throughout the lifecycle. An emphasis will be placed on planning and preparing meals with an understanding of nutrients and their benefits, portion control and dietary needs. Additional information will include steroid and supplemental use, body weight and management and the implementation of physical activity to maintain a healthy lifestyle.

Textile Design, Construction and Maintenance **½ Credit**

In this course, students will study the visual appearance of fabric and fashion design. Students will identify, analyze and apply production processes and techniques to textiles. Additional topics will include the maintenance and alterations of textiles products, including home interior accessories and garments.

Classes NOT Offered for 2022-2023

Child Development **½ Credit**

In this course, students will study the principles of child growth, development and behavior. An emphasis will be place on the cognitive development of a child and sensory and motor skills. Additional topics will include childhood diseases, immunizations, theories of development, learning styles and evaluating childcare services.

Human Growth and Development **½ Credit**

In this course, students will analyze human growth and development throughout the lifespan. An emphasis will be placed on physical, cognitive, social and emotional growth and development. Additional topics will include human characteristics and traits, genetic defects, parenting styles and responsibilities and cultural differences within a family unit and community.

FOREIGN LANGUAGE

Spanish 1 **1 Credit**

Prerequisite: Minimum of a "C" in English

Learning a foreign language means acquiring the skills of listening, speaking, reading, and writing. Students will be introduced to basic vocabulary for practical application of the language. Survival Spanish is also emphasized through use of present-tense verbs. Students are expected to demonstrate competence using this vocabulary and grammar to read, write, listen, and speak. Class participation is also expected. The cultural background of the Spanish-speaking world is also studied through reading, discussion, crafts, group work, and other activities.

NCAA approved course

Spanish 2 **1 Credit**

Prerequisite: Minimum of a "C" in Spanish 1

Students who demonstrate competence and interest in Spanish 1 are encouraged to enroll in Spanish II. Vocabulary is reviewed and expanded. Grammar structures become more complex. Verb forms are expanded to include the preterite (past) tense. A few projects will also be completed along with frequent group work. Class participation is expected.

NCAA approved course

Spanish 3 **1 Credit**

Prerequisite: Minimum of a "C" in Spanish 2

This course is open to students who have demonstrated competence in Spanish 2. Vocabulary and grammar are reviewed, refined, and expanded. An effort is made to have students move past grammatical structures. Emphasis will be placed on using Spanish in authentic situations. The competency expectations are more demanding than in Spanish I and II. Class participation in expected.

NCAA approved course

Spanish 4 **1 Credit**

This course is open to students who have demonstrated competence in Spanish III. Vocabulary and grammar are refined and expanded. An effort is made to have students move beyond grammatical structures & tenses and into conversations in authentic contexts. The competency expectations are more demanding than in Spanish III. Emphasis will also be placed on the daily lives of Hispanics, their values, their holidays and important events, their cuisine, and their free time. Basic geography of the Spanish-speaking world is also studied. Mature topics and conversations are included in this course, in both English and Spanish.

NCAA approved course

Spanish Culture **1 Credit**

This class is an elective and is NOT a foreign language credit.

Spanish Culture is not a language-acquisition course. Students will not be expected to learn or utilize the language in this course. This elective course is for those who wish to study the culture of Spanish-speaking countries and people more in-depth. Emphasis will be placed on the lives of Hispanics, their values, holidays, and cuisine. More controversial topics are also explored such as illegal immigration, poverty of Central and South American cultures, and migrant workers. Students will be expected to utilize technology, conduct research, complete projects and give presentations. This course is open to sophomores, juniors and seniors.

PHYSICAL EDUCATION & HEALTH

Physical Education 9 **½ Credit**

This course provides students the opportunity to enhance their learning of personal fitness concepts and principles through a developmentally appropriate physical education elective program aligned with the Physical Education Content Standards for Ohio Public Schools. The focus of this course is the development of fitness knowledge, fitness principles, fitness strategies and fitness skills; and the application of psychological and sociological concepts, including self-responsibility, positive social interaction, and group dynamics; the assessment and maintenance of physical fitness and nutrition to improve health and performance; in the learning and performance of physical fitness. Units of activity include: physical fitness (activities and assessment, concepts, development and maintenance); and cooperative activities.

Health **½ Credit**

The main Health objective is to maintain and improve the health of human beings. The course content is designed to cover the following areas: CPR, first aid, personality, mental health, anatomy and physiology, drugs, tobacco, alcohol, and family life education. The textbook is used along with additional information supplied by the instructor.

Weight Training **½ Credit**

Prerequisite: Instructor/Counselor approval only

This course is designed to introduce and teach the fundamentals of weight training for personal fitness. Emphasis will be placed on proper techniques, weight training safety, developing a personalized weight training program, and improving muscular strength.

ENGLISH

Students are required to earn four credits of English in order to graduate.

Advanced English 9 **1 Credit**

This course is recommended for the freshmen Advanced College Preparatory Program. It includes grammar skills with emphasis upon sentence structure, paragraph and essay development, spelling, and vocabulary. Short stories, poetry, drama, and the novel compose the required reading. A small research paper and an independent reading project is required. A summer reading project will be assigned at the end of the eighth grade year.

NCAA approved course

English 9 **1 Credit**

This course is recommended for the freshmen Academic Preparation Program for all freshmen not enrolled in the English 9 College Preparatory course. Emphasis is directed for the student to continue the study of vocabulary and grammar skills and to enrich personal awareness by reading different types of literature, such as short stories, poetry, essays, and group/class read young adult novels. Students are also exposed to essay and creative writing, such as narratives, descriptive essays, and poems.

NCAA approved course

Advanced English 10 **1 Credit**

Prerequisite: Advanced English 9 or Teacher Approval

This course is recommended for all sophomores interested in pursuing a college education. It further continues the development of those skills practiced in English 9 CP with the emphasis on long- term portfolio projects which require good writing and organizational skills. A variety of short stories, poetry, drama, and several novels will compose the required reading to introduce the students to American literature.

NCAA approved course

English 10 **1 Credit**

This course is required for all sophomores not enrolled in the English 10 College Preparatory course. It includes the study of "young adult" literature as well as a review of grammar, mechanics, and the application of basic writing skills. At least one long-term project will be assigned.

NCAA approved course

Advanced English 11 (American Literature) (w/ CCP credit option) **1 Credit**

Prerequisite: Advanced English 10 or Teacher Approval

This course is required for all juniors interested in pursuing a college education. This course focuses on American literature and authors as well as some World Literature as a preparation for college level literature courses. The writing will focus on essay assignments such as comparison/contrast, persuasive, definition, descriptive/reflective, analysis and a research project. Extensive vocabulary study is also a focus of the course. A summer reading project will be assigned at the end of the tenth grade year.

NCAA approved course

English 11 (American Literature) **1 Credit**

This course is required for all juniors not enrolled in an English 11 College Preparatory course. This course will continue to review grammar and English for everyday use on the job, and will focus on the study of American literature. Writing will focus on literary analysis, the career portfolio, and computer presentations.

NCAA approved course

Advanced English 12 (World Lit. and Senior Composition) (w/ CCP credit option) **1 Credit**

Prerequisite: Advanced English 11 or Teacher Approval

This course is recommended for all seniors interested in pursuing a college education. This course focuses on world literature and world authors. The writing will focus on literary analysis and interpretation of two novels, one book of nonfiction, and one play. A research paper, editorial review, and capstone project are required.

NCAA approved course

English 12 (Senior Composition) **1 Credit**

This course is required for all seniors not enrolled in the English 12 College Preparatory course. It is to further an enjoyment of reading and to develop an appreciation for contemporary literature. Students are required to complete several essays, read four teacher-selected books of fiction, deliver speeches, and complete a final writing portfolio. Students must also compile a career portfolio, complete with resume, letters of recommendation, and descriptions of future plans after graduation.

NCAA approved course

MATHEMATICS

Algebra 1 / Accelerated Algebra 1 **1 Credit**

Instruction includes:

1. The transition between ideas of arithmetic and the more abstract concepts of higher math by learning how to represent numbers with alphabetical letters (variables) and expanding the laws of arithmetic to include operations with these variables.
2. The exploration of lines, culminating in being able to find the equation of a linear model.
3. Developing problem-solving techniques for various types of problems.

NCAA approved course

Algebra 2 / Accelerated Algebra 2 **1 Credit**

Instruction includes:

1. The structure of the real and complex number systems.
2. Exploration of direct and inverse variation.
3. Solving systems of equations using linear-combination
4. The study of quadratic, power, and exponential functions.

NCAA approved course

Geometry / Accelerated Geometry **1 Credit**

Instruction includes:

1. Recognition, distinction, and analyzation of geometric figures
2. Understanding of the interrelationships between figures and the role of definitions to determine these figures
3. Understanding of the role of postulates, theorems, and definitions dealing with geometric figures and the ability to use them to make logical deductions and to create geometric proofs
4. Use geometric tools to create drawings and geometric constructions
5. Understanding and use of formulas to find area and volume of geometric figures and solids
6. Determine congruence and use it to solve problems

NCAA approved course

Senior Math **1 Credit**

This course is a 4th year math class. Topics will include checking and savings accounts, cash and credit, home purchases, vehicle purchases, and personal investments. Looking at the business side of finance, topics will include purchasing and inventory, sales, marketing, services, accounting and financial management. Also, work will be done with word problems to deal with real world applications.

*****Not a NCAA approved course*****

College Algebra & Trigonometry (w/ CCP credit option) **1 Credit**

(Prerequisite: Algebra II)

This is a quick review of math concepts learned throughout other math courses. It then will go one step further and prepare the student for calculus. This course goes deep into the trigonometric concepts. It also teaches analytic geometry, polar coordinates, vectors, polynomial functions, and many other concepts.

NCAA approved course

Statistics (w/ CCP credit option) **1 Credit**

(Prerequisite: Algebra 2)

Statistics is designed for students who have completed Algebra 2 and have an interest in statistics. Students will develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students will design, administer, and tabulate results from surveys and experiments. Probability and simulations aid students in constructing models for chance phenomena. Sampling distributions provide the logical structure for confidence intervals and hypothesis testing. To develop effective statistical communication skills, students will be required to prepare and present written and oral analyses of real data. Recommended for seniors; otherwise, dual math course enrollment is required.

NCAA approved course

Calculus (w/ CCP credit option) **1 Credit**

(Prerequisite: College Algebra & Trigonometry)

This will be a bridge to success in college math classes. Topics covered will include limits, derivatives and their applications, integration, anti-derivatives, and L'Hopital's Rule.

NCAA approved course

SCIENCE

Biology **1 Credit**

No prerequisite

This course is the study of living organisms from the tiny virus to man. It covers a wide range of study starting with the structure and function of cells moving into the structure and relationship of larger organisms both plant and animal. An area of animal dissection may be included.

NCAA approved course

Physical Science **1 Credit**

No prerequisite

This course studies topics in physics and chemistry. Emphasis will be placed on the learning objectives of the Ohio Graduation Test.

NCAA approved course

Advanced Physical Science **1 Credit**

No prerequisite

This course studies topics in physics and chemistry. Emphasis will be placed on the learning objectives of the Ohio Graduation Test. *This class is for students wishing to pursue the Academics Honors Diploma and who are interested in taking Physics and Chemistry. Students must have at least a 3.5 average in math, or with teacher's permission, in order to schedule this class.*

NCAA approved course

Advanced Environmental Science **1 Credit**

Prerequisite: Biology and Physical Science

This course will take an inquiry-based approach to studying the many aspects of environmental science. Course participants will discover the forces within the earth system that shape and mold the many features of our planet. Students will then apply these concepts to better understand ecology and our role within the biosphere. Many of the major, current issues that society faces today (global warming, ozone depletion, quest for a sustainable future, etc.) will be addressed throughout the duration of the course.

NCAA approved course

Forensic Science **1 Credit**

Prerequisite: Biology and Physical Science

Introduction to the application of scientific methods for the examination of physical evidence in the criminal justice system; an overview of the forensic analysis of firearms, fingerprints, drugs, blood, hair, fibers, paint, glass, arson debris, etc.

NCAA approved course

Chemistry **1 Credit**

Prerequisites: Algebra 1, Biology, and Physical Science

This chemistry will be covering the fundamental concepts of chemistry with a focus on atomic structure, bonding, chemical formulas, Reaction equations, states of matter and acids and bases. From there we will explore the basics of organic chemistry and biochemistry by looking more closely at solutions, organic molecules, and then further explore the compounds vital to life including carbohydrates, proteins, lipids, and nucleic acids.

NCAA approved course

Anatomy and Physiology (w/ CCP credit option) **1 Credit**

Prerequisites: Biology and Physical Science

This course is designed for students who wish to pursue a science intensive field in post-secondary education. In this course you will study human anatomy and physiology which is the study of physical structure and function of the various human systems. This course is highly recommended for students planning on entering pre-med, nursing, or any other science-related field. There is a lab with this course in which students will be expected to complete dissections.

NCAA approved course

Physics **1 Credit**

Prerequisites: Algebra 1 and 2, Geometry and at least a 3.5 average in math, or with teacher's permission

The course in Physics is designed for college-bound students or those planning to attend a technical institute. It covers the main topics of motion, mechanics, heat, light, sound, and electricity. The work consists of classroom discussions in each phase, supported by laboratory experiments that are appropriate to the discussions whenever possible.

NCAA approved course

SOCIAL STUDIES

World History **1 Credit**

This course examines world history with a focus on its impact on the formation of the United States. Topics of study include the Enlightenment, European Imperialism, the Industrial Revolution, and conflicts of the 20th Century. Students will further their understanding of the relationship between world events and U.S. policies. Different forms of government and their impact on society will also be studies. Various projects, tests, activities, quizzes, notes, and class participation are expected. This class is required for graduation.

NCAA approved course

US History **1 Credit**

This course examines United States history from the post-Reconstruction era to the present, including the influence of the late 19th Century on the 20th Century. The impact that world events have had on shaping American society, culture, and politics will ***** be emphasized. Requirements include various activities and projects, tests, quizzes, notes, and class participation. This class is required for graduation.

NCAA approved course

Government **1 Credit**

The government sequence of the course will trace the operation and organization of our national government plus the Ohio State and local governments (i.e., county and township). Domestic policy, national debt, and fundamental freedoms, as well as foreign policy and defense, will be examined.

The Economics sequence of the course is the study of how unlimited human needs and desires are satisfied with the scarce resources available. We will also examine personal finance, investing, and retirement. This class is required for graduation.

NCAA approved course

Psychology (w/ CCP credit option) **1 Credit**

Introduction to the scientific study of behavior and mental processes with an emphasis on personality, learning and memory, human sexuality, lifespan development, sensation and perception, health psychology, abnormal behavior and interventions, social psychology, stress, motivation, and states of consciousness.

NCAA approved course

Current Events **1 Credit**

This course examines the news of the day through selected news and magazine articles. Student evaluation is based on points earned from quizzes, study guides, and tests. This class is an elective social studies credit and does NOT count towards the Honors Diploma.

(Not Offered for 2022-23)

Modern History **1 Credit**

Modern History will cover WW1 and WW2 and explore popular culture's influence in the United States from the 1950s to the present. We will study iconic films, television shows, music, sports, food, and social networking to identify how ongoing phenomenon have shaped and/ or reflected American values. The identification of these effects will lead discussion of our essential question: Does popular culture truly change our perception of the world? Students will be required to develop an informed critical analysis pertaining to this essential question to exhibit their own critical viewpoints on popular culture. Prerequisites: None

NCAA approved course