Agricultural Education

Agriculture, Food and Natural Resources (AG 1) – The 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.

Level: 9/12. Limited enrollment. Selection based on attendance and discipline records, recommendations, and career objectives.
Credit: 1 1/4 Length: Year

Animal and Plant Science (AG 2) – 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 role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.

Level: 10/12. Limited enrollment. Selection based on attendance and discipline records, recommendations, and career objectives, and qualifications for Tech Prep and S.T.S.
Required prerequisite: Ag Food and Natural Resources. Must speak with Agricultural instructor to decide course pathway.
Credit: 1 1/4 Length: Year

Mechanical Principles (AG 3) – 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.

Level: 11/12. Limited enrollment. Selection based on attendance and discipline records, recommendations, and career objectives. Required prerequisite: Ag Food and Natural Resources. Must speak with Agricultural instructor to decide course pathway.
Credit: 1 1/4 Length: Year

Business Management for Ag and Environmental Systems (AG 4) – Open to Seniors only. 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 implication of business regulations will be identified.
Level: 12. Limited enrollment. Selection based on attendance and discipline records, recommendations, and career objectives, and qualifications for Tech Prep and S.T.S. Required prerequisite: Ag Food and Natural Resources. Must speak with Agricultural instructor to decide course pathway.
Credit: 1 ¼ Length: Year

ART

MIXED MEDIA WORKSHOP
This course is an introductory level course that addresses a variety of 2-D and 3-D artwork opportunities. Explore trending topics that relate to art. Learn the fundamentals of art and design and relate art techniques to art history. Experiment with the basics of art creation, art appreciation, and connections between music and Fine Art. Fees: $20
Level: 9-12 Credit: 1/2 Length: Semester

ART II
This course is for second year art students that are serious about their future in the world of art. Students will continue to develop their understanding and skills in the elements and principles of art and design. This course goes more in-depth into the techniques of drawing, painting, sculpture, and printmaking. Students will be required to keep a sketchbook and work towards developing a portfolio. Pre-requisite: Art I or 2-D AND 3-D, in addition to teacher approval. Fees: $25
Level: 10/11/12 Credit: 1/2 Length: Semester

ADVANCED ART
This course if offered for the serious art students who want to advance their artistic skills and develop a portfolio for a future in the Arts. Students will create advanced artwork using multiple 2-D and 3-D techniques. Art appreciation and art history will be discussed and related to art creation. Post-secondary art opportunities will be discussed, allowing students to get a jump-start on their future art endeavors. Students will be required to keep a sketchbook and develop a professional looking portfolio. Pre-requisite: C or higher in Art II B, teacher approval. Course Fee: $50
Level: 11/12 Credit: 1 Length: Year

2-D DESIGN
Do you enjoy drawing and painting? This course will introduce you to different 2-Dimensional art techniques. Students get to explore a variety of mediums, such as pencil, paint, ink, and more. Learn the fundamentals of art and design and incorporate your skills into a variety of projects. Course Fee: $20
Level: 9-12 Credit: 1/2 Length: Semester

3-D DESIGN
Do you like to make things with your hand? This course will introduce you to a variety of mediums used to create 3-Dimensional artwork. Experiment with plaster, clay, paper mache, and other sculptural materials. Learn the fundamentals of art and design while creating interesting sculptures. Course Fee: $20
Level: 9-12 Credit: 1/2 Length: Semester
CERAMICS I
This course explores hand building and wheel throwing techniques. Students will create functional and sculptural works out of clay. Students will learn about the history and relevance of ceramic items from the past and present. Course Fee: $50
Level: 9-12 Credit: 1/2 Length: Semester

CERAMICS II - This course builds on the skills and techniques learned in Ceramics. Students will be able to get more in depth with wheel throwing, as well as experiment with advanced sculptural work and glazing techniques. Pre-requisite: C or higher in Ceramics I, teacher approval. Fees: $50
Level: 10/11/12 Credit: 1/2 Length: Semester

INTRODUCTION TO GRAPHIC DESIGN - This course is an introduction to the basics of Graphic Design. Students will learn tools and skills in Adobe Illustrator and Photoshop. In this class students will create logos and magazine covers, manipulate photos, develop concepts for businesses, and gain an understanding for basic design concepts. Fees: $30
Level: 9-12 Credit: 1/2 Length: Semester

EXPLORING CONCEPTS OF GRAPHIC DESIGN - This course is a continuation on Introduction to Graphic Design. It provides an opportunity to learn more in depth concepts and techniques in graphic design. Students will create and manipulate in Adobe Illustrator and Photoshop. Digital artwork will be created utilizing Mac laptops, digital cameras, and scanners. Prerequisite: C or higher in Introduction to Graphic Design Fees $30
Level: 10//11/12 Credit: 1/2 Length: Semester

BUSINESS/TECHNOLOGY EDUCATION

SPORTS MARKETING AND MANAGEMENT - This course is the introduction and application of business principals in the sports industry. It will focus on the aspects of management, marketing, economics, ethics, finance, and much more. We will also look closely at smaller sections of the industry including: sales, sponsorship, and facilities. Students will apply learned principal to complete real world projects directly related to created sports teams.
Level: 9-12 Credit: 1/2 Length: Semester

ENTREPRENEURSHIP - - This course provides students the opportunity to access both benefits and risk associated with self employment. Students will develop a wide range of competencies and decision-making skills needed to start a small business. Students will work through a series of structured peer activities and assignments that correspond with each phase of new venture planning. Throughout the class students refine their venture’s hypothesized business model based on instructor, visiting experts, and peer feedback. Students will have the opportunity to create and run their own student start up business!
Level: 9-12 Credit: 1/2 Length: Semester

COMPUTER APPLICATIONS - This course is an overview of Google platform. (Docs, Slides, Sheets, and Drive) Students will learn to use the word processing, presentation, spreadsheet, and other features of the platform to gain experience in each area. These experiences will prove to be a vital piece of their growth as a student in the 21st century! It also gives the students an opportunity to see how the applications can be used in their personal lives and can serve as a foundation for higher-level computer courses.
Level: 9-12 Credit: 1/2 Length: Semester
PERSONAL FINANCE – – This course is designed to explore the many ways students can enhance their knowledge of their role as an adult in today’s society. The students will develop practical decision making skills through gaining knowledge from topics covered such as: budgeting, banking, consumerism, credit, investing, insurance, and taxes. Students will learn how to prepare tax returns and complete and manage checking and savings accounts.

Level: 9-12  Credit: 1/2  Length: Semester

ENGLISH

CREATIVE EXPRESSION - The course will incorporate speech, drama, artistic technology and creative writing into individual assignments and larger projects. You may take either course or both. Course may only be taken a maximum of two semesters. Fee: $10.00

Level: 9-12  Credit: 1/2  Length: Semester

INTRODUCTION TO FILM CRITICISM – This course is a beginner’s level course that will equip students to view films actively and critically, analyzing cinema for both how it works and how it shapes our values. In the course, students will learn to analyze films through three lenses: the Literary (focus on script), the Dramatic (focus on acting), and the Cinematic (focus on film technique). Specifically, students will be able to define film terminology, analyze use of cinematic effects, examine film history, differentiate between various cinematic genres, compose professional film reviews, and evaluate films for literary, dramatic, and cinematic quality.

Level: 9-12  Credit: 1/2  Length: Semester

ENGLISH I - This course teaches the fundamentals of the writing process through the study of novels, short stories, drama and poetry. Students review basic grammar concepts while completing assignments and public speaking projects. All students are required to read one, independently-selected book each quarter. Fees: $12.00

Level: 9  Credit: 1  Length: Year

ENGLISH II - This course is designed to familiarize students with non-fiction. The class is organized thematically and works to build the skills students will need in future English classes. Students will complete a variety of both short and long writing prompts and will interact with concepts that will be fundamental to future classes. Fees: $25.00

Level: 10  Credit: 1  Length: Year

PRE AP ENGLISH II HONORS – In addition to the regular English II curriculum, Pre-AP will prepare students for the AP English Language and Composition course. This class will assist students in becoming skilled readers of prose in a variety of rhetorical contexts and skilled writers who compose for a variety of purposes. There will be extensive reading and writing. Student must meet honors criteria. Fees: $20.00.

Level: 10  Credit: 1  Length: Year

ENGLISH III - This course is an overview of American literature, featuring a variety of prose and poetry. The class considers themes that have developed over the course of American history and how they relate to who we are today. This class balances literary analysis and research-based analysis to prepare students for college and the future. Fees: $25.00

Level: 11  Credit: 1  Length: Year
AP ENGLISH LANGUAGE AND COMPOSITION – In this college-level course, students will become skilled readers of prose written in a variety of rhetorical contexts and skilled writers who compose for a variety of purposes. (Fulfills the junior English requirement) $35.00
Level: 11 Credit: 1 Length: Year

ENGLISH IV - This course features British prose and poetry, along with contemporary literature. Students will develop and practice college preparatory research and professional writing skills. MLA and APA style research papers and outside reading are required. Fees: $25.00
Level: 12 Credit: 1 Length: Year

AP ENGLISH LITERATURE AND COMPOSITION - In this college-level course, students will become skilled in the practice of literary analysis through the reading of major works of literature, including novels, plays, short stories, and poetry. Students are required to complete a summer reading project. This course is reading and writing intensive. Fees: $35.00
Level: 12 Credit: 1 Length: Year

MEDIA COMMUNICATION

RAMBLER/YEARBOOK - The objective of this class is for you to plan, design and produce a quality digitally computer-based yearbook. Students must be self-motivated and self-disciplined. Knowledge and use of digital cameras, scanners, Adobe Photoshop and In Design are useful. Students must be able to set goals and work to meet them with deadline pressure. Good attendance and willingness to work with others is a must. Keeping a high level of academic achievement during the year is needed because you will miss some classes. Students applying for this class must fill out an application and have prior approval of the instructor. Students must be willing to attend extra curricular activities to get photographs. This course may not be listed as an alternate course. Class is limited to 7-10 students.
Fee: $10 fee for individual memory cards for camera
Level: 10/11/12 Credit: 1 Length: Year

VIDEO COMMUNICATIONS - This course is designed so that each student will learn to use video equipment and take part in the development and production of school related multimedia, including announcements. Students will be required to film a variety of GHS activities throughout the school year.
Fee: TBD
Level: 10/11/12 Credit: 1 Length: Year

HEALTH AND PHYSICAL EDUCATION

AEROBICS AND BODY CONDITIONING - A combination of conditioning with and without weights and aerobic exercise consisting of yoga, Pilates, kickboxing and aerobic dance.
Level: 11-12 Credit: 1/4 Length: Semester

FITNESS FOR LIFE – The purpose of this class is to help students become informed, independent decision makers capable of planning for enjoyable lifetime fitness and physical activity while achieving personal fitness. Objectives include: 1)acquire knowledge of the benefits of physical activity; 2)acquire self-management skills to promote lifelong physical activity; 3) become physically active while pursuing goals to become physically fit; and 4) become independent decision-makers who can plan his/her own fitness program. Circuit Training: M-W-F Conditioning: T-TH
Level: 10/11/12 Credit: 1/4 Length: Semester
HEALTH - Development of desirable behaviors, attitudes, and knowledge about physical, mental and social health. The course motivates and teaches pupils to live in such a way that they will formulate habits and values essential for healthful and happy living. Also includes CPR certification and sex education. Fees: $28.00
Level: 9 Credit: 1/2 Length: Semester

INDIVIDUAL & TEAM SPORTS – This is an entry-level class emphasizing beginner skills in a broad spectrum of activities in order to develop a foundation for future physical activity. Students will learn the rules, skills, and strategies necessary to be successful in each activity.
*Fitness Friday’s: Students engage in various fitness related activities.
Level: 10/11/12 Credit: 1/4 Length: Semester

INFORMATION LITERACY
LIBRARY SCIENCE - This course offers students a unique opportunity to render important services to the school and to develop special skills in media center operations. This course will focus on the Dewey Decimal System, Information literacy, Media literacy, Internet Safety and Technology. Students will gain experience in these evolving fields. Students will also learn skills specializing in circulation, collection development, and facility services. This is an independent class in which students will be required to do different activities each week and be disciplined to do the activities in a timely manner.
Level: 10/11/12 Credit: 1/2 Length: Semester

LANGUAGES

SPANISH I - This is a college preparatory class in which the beginning skills of listening, speaking, reading, and writing in the target language are introduced. Emphasis is given to Hispanic influence in the U.S. and to the culture of Spanish-speaking countries. In order to attain success, students should have a good knowledge of English grammar. Fee: $30.00
Level: 9-12 Credit: 1 Length: Year

SPANISH II - A continuation of Spanish I using listening, speaking, reading, and writing activities. Heavy emphasis is placed on acquiring a variety of new grammatical skills. Prerequisite: at least a "C" in Spanish I. Fee: $30.00.
Level: 9-12 Credit: 1 Length: Year

SPANISH III – is a continuation of previous Spanish courses and the acquisition of the four basic language skills of listening, speaking, reading and writing. Much of this course will be conducted in Spanish, with the emphasis on improving oral and written language skills. Prerequisite: Spanish I and Spanish II with at least a "C". Fee: 30.00.
Level: 10/11/12 Credit: 1 Length: Year

SPANISH IV HONORS - This course is for serious language students only and will include extensive conversational practice encompassing discussions and debates in Spanish, reading literature, magazines, and newspapers, writing multi-paragraph passages on a variety of topics, and advanced research of cultural topics. Prerequisite: "B-" average in Spanish III. Fee: $30.00.
Level: 11-12 Credit: 1 Length: Year
**AP SPANISH** - This course is the equivalent of Spanish V, emphasizing the use of Spanish for active communication. It encompasses aural/oral skills, reading, comprehension, grammar, and composition. The goal of this course is to help you understand Spanish spoken by native speakers, develop an active vocabulary, and be able to express yourself in Spanish, both orally and in writing. Students may take the AP Test in May to receive college credit. Prerequisite: "B-" average in Spanish III.

Level: 12  
Credit: 1  
Length: Year

**GLOBAL CULTURES & CUISINE** - This semester course will explore the geography, climate, agriculture, customs, religion, music, society, and food of 12-15 countries/regions. Basic culinary skills will be taught as we prepare and sample dishes from around the world. At the end of the course, students will host a "Global Culture Fair" for the entire student body to attend. This class is open to students in grades 10-12, with limited enrollment based on kitchen station capacity. Fee: $30.00

Level: 10/11/12  
Credit: 1/2  
Length: Semester

**MATHEMATICS**  
Students and/or parents can meet with the teacher of the previous class if they wish to discuss this placement.

**ALGEBRA I** - A course dealing with the basic structure of Algebra using the real number system and the process of manipulations of numbers and variables as applied to equations of area and volume. A slight introduction of plane figures and their properties is also applied to the concept of variables and unknowns. A minimum of 30 minutes homework per night is expected.

Level: 9-12  
Credit: 1  
Length: Year

**ALGEBRA II** - This course extends the knowledge gained in Algebra I to other functions. Students will use basic analytic, numeric, and graphical solutions. A minimum of 30 minutes of homework per night is expected.

Level: 9-12  
Credit: 1  
Length: Year

**ALGEBRA II HONORS** - A college preparatory class that is a continuation of Algebra I. This course will explore the properties of functions. It will expose the student to analytic, numeric, and graphical solutions. Students need a strong understanding of Algebra I to complete this class. A minimum of 45 minutes of homework per night is expected. It is a requirement that students buy a graphing calculator (TI-84 plus) or (TI-83 plus).

Level: 10/11/12  
Credit: 1  
Length: Year

**AP CALCULUS** - The Advanced Placement Calculus AB course follows the Advanced Placement syllabus and students may take the AP test in May to receive college credit. It is the equivalent of an entry-level college Calculus class. Course study will include properties of functions, limits, differential calculus, and integral calculus. Use of symbolic differentiation and integration utilities is also included. It is required that students buy a graphing calculator (TI-83 plus, TI-84, or Inspire). A minimum of one-hour homework per night is expected.

Level: 12  
Credit: 1  
Length: Year

**GEOMETRY** - This college preparatory course deals with deductive reasoning and proofs. The proofs are of plane and solid figures of all kinds. Logical thinking and fact organizations are essential as well as understanding of geometric figures around us. A minimum of 30 minutes homework per night is expected.

Level: 9-12  
Credit: 1  
Length: Year
GEOMETRY HONORS - is concerned with two major areas of study: the study of geometric facts, and the study of proofs, reasoning, and logical thinking. Students develop skills that can be applied to higher-level mathematics, and real-world problems. This course is similar to Geometry but in a more accelerated way and is intended for students who will likely be taking other upper level mathematics courses in high school, and/or those pursuing a science-related career. The Honors Geometry course will incorporate algebra throughout the duration of the course. **PREREQUISITE:** Algebra I (B average or higher is recommended).

Level: 9-12  
Credit: 1  
Length: Year

PRE-CALCULUS HONORS - This College Preparatory course is a study of coordinate geometry, elementary functions, trigonometry, logarithms, probability and statistics. It is a requirement that students buy a graphing calculator (TI-84 plus) or (TI-83 plus). A minimum of 45 minutes homework per night is expected. Prerequisite: Teacher recommendation. Students completing this course will take either AP Calculus or Pre-College AP Calculus.

Level: 11-12  
Credit: 1  
Length: Year

PRE-COLLEGE CALCULUS HONORS - This is a non-AP college preparatory course that will introduce the concepts of college Calculus I and II, but without as much or as difficult functions. The use of a graphing calculator is required.

Level: 11-12  
Credit: 1  
Length: Year

STATISTICS/TRIGONOMETRY - this course is designed to offer students solid introduction to statistical and trigonometric concepts students will meet when furthering their education. It will also apply many applications during the course.

Level: 11-12  
Credit: 1  
Length: Year

***Option--Students with an "A" in Algebra I may request teacher permission to take both Geometry and Algebra II the following year.

MUSIC

SYMPHONIC CHORALE/SENSATIONS - Sensations, recently named “the singing voice of Jamestown”, is a select group of 9-12th graders chosen by audition by the director from the general student body and membership of the Greeneview Vocal Music Department. This group performs a variety of music and dance styles. Members sing songs while performing dance routines. This show choir represents Greeneview High School in all choir concerts and scheduled community engagements. Although the membership’s musical requirements are high, the foremost qualification is a strong desire to contribute extra time and effort for the overall benefit of the Vocal Music Department. Students must be willing to commit to rehearsals outside of the school day. These rehearsals can occur before school or any other time presented at the directors discretion. Outfits will be purchased by the members for a one-time fee of $150 added on to school fees. These same singers will be a part of Symphonic Chorale. It is comprised of mixed voices, divided into Soprano, Alto, Tenor, and Bass. This group is for students who seek to improve their individual and ensemble choral skills through daily rehearsals which focus on more challenging choral literature. This group is also for students who seek growth in the area of music theory and sight-singing. Students selected for enrollment in Symphonic Chorale are expected to attend and participate in all scheduled functions.

Level: 9-12  
Credit: 1  
Length: Year
FLAG CORPS - Participation in flag corps as auxiliary unit to marching band. Tryouts may be required. A participation fee will be charged. This is purely extra-curricular. Students are expected to be present at all rehearsals & performances.

Level: 9-12  Credit: 1/4  Length: Quarter

CONCERT CHOIR - Concert Choir is a non-auditioned mixed choir open to all female and male students grades 9-12. This group focuses on the basics of singing in a wide variety of styles including barbershop, jazz, gospel, popular and classical. The Concert Choir performs at GHS choir concerts, OMEA large-group contest, and has the option of participating in the OMEA solo and ensemble event at an area high school. No previous experience is necessary.

Fee: 20.00
Level: 9-12  Credit: 1  Length: Year

PIANO LAB 1S AND 2S - Piano Lab provides opportunities for students to start or to continue learning how to play the piano. Students will receive training in piano technique, music reading and, basic music theory and apply their growing knowledge and skills to playing pieces and songs ranging from classical to popular within their level of performance. Musical skills are taught on digital pianos and students learn at their own pace. Students should be able to stay on task and work independently when necessary. The piano lab is equipped with a communication system that enables teacher-to-student and student-to-student interaction. Students will learn and perform individual pieces for each other through in-class recitals, as well as learn and perform group pieces with other students. Students will be required to purchase their practice books. Fees: 16.00

Level: 9-12  Credit: 1/2  Length: Quarter

CONCERT BAND – A large, performance-based ensemble exploring the various styles of band music. Students who participate in concert band must participate in marching band, unless they participate in a fall sport. Students who participate in a fall sport and wish to participate in marching band must split time between both activities. Students who participate in a fall sport and wish not to split time with marching band may participate in concert band only. Those students who participate in marching band must be available for summer and after school practices. Students should also be advised that attendance at all performances is mandatory. Students who cannot commit to the many performances throughout the year should not sign up for this course. Fee: A participation fee will be charged.

Level: 9-12  Credit: 1/2  Length: Semester

MARCHING BAND – This course is open to students in Grade 9-12 who are qualified instrumentalists through band director recommendation or audition. This course begins meeting in mid-July with summer Band Camp. This elective course is offered for those band and color guard members interested in performing at football games, parades and marching band competitions. The "corps-style" concept of marching and performance will be the foundation for all teaching. Emphasis will be placed upon fundamentals of musicianship, marching and maneuvering, musical expression, showmanship, physical coordinating, and development of discipline and character.

Level: 9-12  Credit: 1/4  Length: Year

MUSIC APPRECIATION - This course includes all aspects of music theory, tonality, and the way music is put together. This class is reserved for serious music students only. Must be enrolled or have been enrolled in piano lab, choir, or band.

Level: 9-12  Credit: 1/2  Length: Semester
SCIENCE

GENERAL CHEMISTRY - The study of the interactions between atoms, formula and equation writing, behavior of gases, basic chemistry lab skills, chemical reactions, periodic law and stoichiometry without a major emphasis in the math behind chemistry. This is not considered a college preparatory course. Lab Fee: $25.00
Level: 11-12  Credit: 1  Length: Year

PHYSICAL SCIENCE - Physical Science is designed to introduce students to both chemistry and physics. Chemistry topics include: the structure of matter, atomic theory, chemical bonding, writing formulas and equations, and chemical reactions. Physics topics include: energy, motion, electricity and waves. Students will use a basic understanding of measurement, Algebra, note taking, scientific language and graphing. The format of this class includes hands-on learning, independent preparation and other various learning techniques.
Level: 9  Credit: 1  Length: Year

BIOLOGY I - This course explores the living world, the physical environment and the interactions within and between them. Fundamental concepts of heredity, evolution, cells, and the diversity and interdependence of life will be explored through scientific investigations. This is a college preparatory course and satisfies inquiry-based lab experience required for graduation and covers material to prepare students for the Biology EOC test. Prerequisite: Physical Science Credit  Fee: $5.00
Pre AP Biology Honors – will be assigned to students earning an 85% or better in Honors Physical Science. Students earning a 90% or better in Physical Science will also be considered.
Level: 10/11/12  Credit: 1  Length: Year

BIOLOGY II is a second level biology course that allows the students to study advanced topics in biology. The course will attempt to address the interests of all students by providing them with a variety of topics to study. Emphasis is placed on organisms, biodiversity, plant and animal systems, ecology, and other related topics. Fees: $15
BIOLOGY II WILL BE OFFERED IN EVEN GRADUATION YEARS
Level: 11-12  Credit: 1  Length: Year

AP BIOLOGY – This advanced course is organized around four big ideas in Biology: 1) Evolution 2) Cellular Processes: Energy & Communication 3) Genetics & Information Transfer 4) Interactions. A heavy emphasis is placed on science as a process, scientific inquiry, the ability to unify themes like molecules, cells, evolution, heredity, organisms, and populations and the application of critical thinking skills to solve environmental and social problems. Students are expected to do independent study and work at an accelerated pace. This is a college level course equivalent to a two-semester college introductory biology course that will prepare students for taking the AP exam. Prerequisite: "B" or above in Biology, Chemistry, and Algebra II or teacher recommendation. Lab fee: $40.00
AP BIOLOGY WILL BE OFFERED IN ODD GRADUATION YEARS
Level: 11-12  Credit: 1  Length: Year

CHEMISTRY HONORS - The study of the interactions between atoms, formula and equation writing, behavior of gases, basic chemistry lab skills, chemical and mathematical relationships, periodic law and stoichiometry. This is a college preparatory course. Prerequisite: A or B in Biology I and Geometry or Teacher Recommendation Lab fee: $25.00
Level: 10/11/12  Credit: 1  Length: Year
AP CHEMISTRY - Is designed to be the equivalent of the general chemistry course usually taken during the first year in college. This class will be conducted primarily through laboratory experiments and problem solving activities, reinforced with lecture and discussion. We will also complete long-term projects throughout the year. Major topics of study will include atoms, molecules, ions, mass relations, gases, bonding, reactions, equilibrium, acids, bases, electrochemistry, and thermodynamics. Prerequisite: A in Chemistry Honors and Algebra II or teacher recommendation. Lab fee: $25.00
AP CHEMISTRY WILL BE OFFERED IN EVEN GRADUATION YEARS
Level: 11-12  Credit: 1  Length: Year

GENERAL PHYSICS - The ideas behind many physics phenomena are discussed, with some emphasis on the mathematics. Topics include mechanics, forces, sound, light, magnetism, electricity, energy, and strong Algebra I skills are necessary. This is a college preparatory course. Prerequisite: Physical Science, Algebra I and Geometry, or special permission. Lab fee: $20.00.
Level: 11-12  Credit: 1  Length: Year

HUMAN ANATOMY AND PHYSIOLOGY HONORS – This course is structured for students interested in pursuing a career in the field of medicine. Designed as an in-depth look at the structure and function of the human body, it will cover the skeletal, muscular, nervous, circulatory, respiratory, digestive, reproductive and integumentary systems. Topics include cells, tissues, glands, blood, sensory organs and immunity. Laboratory work will include dissection of the sheep brain and kidney, beef eye, cow heart and the full cat. This is a college preparatory course. Prerequisite: "C" or better in Chemistry Honors or teacher recommendation. Fees: $30.00
Level: 11-12  Credit: 1  Length: Year

PHYSICS I HONORS - A faster paced physics course for the higher level mathematics student. Topics include mechanics, forces, sound, light, heat, magnetism, electricity, energy and modern physics. Prerequisite: "B" in Algebra II, enrollment in Pre-Calculus Honors or Calculus. Lab fee: $20.00
Level: 11-12  Credit: 1  Length: Year

PHYSICS II HONORS - This class is designed to build on the concepts learned in Physics I, with an emphasis on electricity and electronics. Prerequisite: "A" or better in Physics I Honors. Fee: $25.00
Level: 12  Credit: 1  Length: Year

PRINCIPLES OF ENGINEERING - Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Pre-Requisite: “B” in Algebra I and “C” in previous science class Fee: $30.00
Incoming Freshman earning an 85% or higher in both Science 8 and Algebra I will be considered and placed in this course.
Level: 9-12  Credit: 1  Length: Year
**PHYSICAL GEOLOGY** - Physical Geology introduces the composition and dynamics of Earth from minerals to the global scale of plate tectonics. Major themes include the composition of minerals and rock, volcanism, Earth structures, earthquakes, erosion and surface processes, geologic time, geologic hazards, and plate tectonics. This course analyzes human interactions with geologic processes and the physical environment. Successful completion of physical geology prepares the student to recognize, understand, and appreciate the physical processes which continually change Earth over geologic time. Fee $15.00
Level: 11-12  Credit: 1  Length: Year

**SOCIAL STUDIES**

**AMERICAN GOVERNMENT** - A course designed to help students understand how our government works. Emphasis will be placed on becoming good citizens.
Level: 11  Credit: 1  Length: Year

**AP GOVERNMENT AND POLITICS** - This course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret US politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute US political reality. Fees: TBD
Level: 12  Credit: 1  Length: Year

**CONTEMPORARY WORLD ISSUES** – Required course exploring the dynamics of global interactions among nations and regions in the 20th and 21st centuries.
Level: 12  Credit: 1  Length: Year

**AMERICAN HISTORY** - A required course dealing with concepts, people and events from the 1860’s to the 1960’s important in the history of the United States.
Level: 10  Credit: 1  Length: Year

**PRE-AP AMERICAN HISTORY HONORS** – This course will require independent study, research projects, oral reports, and essay tests. Critical thinking is stressed. Grades are dependent on projects, test scores, and participation in class discussions. Students must apply and be accepted. This course covers the same content as the regular American History class. Prerequisite: 3.00 GPA or B average in World History, student must meet Honors Course Criteria.
Level: 10  Credit: 1  Length: Year

**AP UNITED STATES HISTORY** - In this college-level course, students should attain a mastery of general facts and chronology as well as an understanding of the interaction of events and ideas in U.S. History. (Fulfills the Senior social studies requirement) Fees: $35.00
Level: 12  Credit: 1  Length: Year

**CURRENT ISSUES 1S & 2S**- This semester course focuses on current and controversial issues in today's world. A variety of media, including print and internet sources, will be used.
Level: 9-12  Credit: 1/2  Length: Semester

**PSYCHOLOGY** - This survey course introduces the students to the field of psychology. It is designed to give students a basic history of psychology, theories of learning, self-awareness, the process of thinking, personality, heredity and mental health as well as a study of human growth and development.
Level: 10-12  Credit: 1/2  Length: Semester
SOCIOLOGY - This course is designed to introduce students to the theories, concepts and areas of inquiry that typically characterize sociological analyses. Specific areas to be covered may include: culture, socialization and social interaction, social groups, deviance, social class, race and ethnicity, sex and gender, and aging. Sociology furnishes an academic foundation for responsible citizenship in a multi-racial and multi-cultural global community. Students will also be expected to analyze and interpret a variety of primary and secondary source materials.

**Level:** 10-12  
**Credit:** 1/2  
**Length:** Semester

MODERN WORLD HISTORY HONORS – This course will require independent study, research projects, oral reports, and essay tests. Critical thinking is stressed. Grades are dependent on projects, test scores, and participation in class discussions. Students must apply and be accepted. This course covers the same content as the regular World History class.

**Prerequisite:** 3.00 GPA or B average in World History, students must meet Honors Course Criteria.

**Level:** 9  
**Credit:** 1  
**Length:** Year

MODERN WORLD HISTORY – This course examines world events from 1600 to the present. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

**Level:** 9  
**Credit:** 1  
**Length:** Year

STREET LAW – This elective course will give students a deeper understanding of the impact of law upon their daily lives. Court structure, criminal procedure, civil rights, and other legal issues will be examined. The course will cover both criminal and civil law.

**Level:** 10-12  
**Credit:** 1/2  
**Length:** Semester

G.R.A.D.S. - (Graduation Reality and Dual Role Skills) An in-school program for mothers or fathers-to-be, and for currently parenting students, which focuses on pregnancy, child development and parenting skills as well as balancing work and family, setting goals for your future, and developing a positive self image. Meets Monday, Tuesday, Wednesday and Thursday.  
**Credit:** .4  
**Length:** open entry, open exit.
Auto Collision Repair

The auto repair industry is growing in leaps and bounds as the designs of cars and trucks change to meet safety and style requirements. Today’s vehicles are designed with materials that absorb energy upon impact. This engineering assures higher safety ratings, but also means that cars need more intricate repair than ever before. Technicians need training in the most modern repair methods using the best technology available. Students receive instruction in body work, sheet metal shaping on damaged bodies and fenders, uni-body and frame straightening, and refinishing. Auto body shop organization and operation are also covered along with cost estimation and the writing of repair orders.

Automotive Technology

New cars and trucks become more technologically complicated each year. Technicians require a strong background in computer diagnostics and programming, electronics, and engineering. At the Career Center, students learn to maintain and repair these vehicles using modern techniques and equipment. In addition, mentorships and placement with area auto dealerships are arranged.

Career X

Career X is a new program at Greene County Career Center where students with special career requirements explore various pathways and learn “soft skills” that will enhance their employability. As a student, you will visit a variety of career areas to help assess your skills, career goals, and capabilities. Learning how to interact with others, accept responsibility, complete assignments and display proper workplace behavior will be part of each day’s lesson in Career X. Skill areas are divided into self-paced learning modules. The goal of Career X is to give you the skills and confidence to enter a career-technical program at Greene County Career Center, enroll as a deferred-diploma student in Project Search at one of the area hospitals, gain employment through an adult agency, or earn a referral to an adult agency.

Carpentry

Students learn rough framing, roofing, drywall installation and interior and exterior finish. When possible, the program leads the construction of an actual project house right on the GCCC campus. The Carpentry program is nationally-recognized by NCCER and allows students to earn college credit at Sinclair and Hocking College in a variety of construction pathways.
**Cosmetology**

Cosmetology students learn the basic and advanced skills needed to become licensed cosmetologists. Students in this popular career area become proficient in over 100 competencies including shampooing, hair shaping and styling, coloring, permanent waving, manicuring, giving facials, and pedicures. These skills are mastered through intense practice in the laboratory where students operate a full-service salon that is open to the public. Through this experience, future cosmetologists learn professionalism, customer relations, and salon management. These are the keys to success in this ever-changing field.

**Criminal Justice**

Criminal Justice will provide the knowledge and the skills applicable to a variety of public safety careers with a direct pathway to the criminal justice and corrections professions. Specialized classroom and practical learning experiences are directed by law enforcement professionals and representatives from local agencies.

**Culinary Arts**

The world of culinary expertise and restaurant management is explored in this exciting, fast-paced career preparation program. Students gain experience by learning all facets of restaurant and food service operations, including food preparation, by actually managing an active restaurant during the school year.

**Digital Media**

Computers have forever changed the way we work. Fields that were once considered traditional broadcasting or art are now converging thanks to digital technologies. The Digital Media program is the program that encompasses these fields. In this program, students use professional quality software and equipment to create content for video, animation, print, or for the Web.

**Electrical Wiring and Motor Controls**

Students learn and apply the basic theory of electricity to industrial, home and commercial settings. Graduates become proficient in the layout, installation and maintenance of circuits, motor controls, programmable logic controllers and fire alarms. Students who excel in this program and have met the attendance requirement may apply for the Apprenticeship program. This program is NCCER certified.
**Equine Science**

Students in the Equine Science program will be able to take advantage of the new state-of-the-art, 50 acre facility that features modern classrooms, stables, riding trails and a 18,000-square foot show arena. Students will learn about the care and feeding, breeding and anatomy of horses; horseback riding and horse training; and running horse-related businesses, such as riding schools, stables and stud farms. Areas of instruction include: nutrition, reproduction, rehabilitation, exercise physiology, welfare, and behavior of horses.

**Food and Hospitality Management**

This program is open to students interested in travel, food service and the hotel industry. The goal of the program is to prepare students to secure and succeed in entry level, technical, and skilled job opportunities. Students encounter a hands-on laboratory and participate in cooperative work experiences at a variety of local organizations and businesses. The program features an on-campus restaurant that allows students to prepare, present, sell and serve Frisch's items to both staff and students. Skills learned include introduction to hospitality, sanitation and safety, menu development, customer relations, food preparation, banquet set-up, dining and hospitality software and equipment operation.

**Health Science Academy**

The Health Science Academy provides opportunities for students to enter post-secondary education or the world of work. The multi-discipline academy allows individuals to discover their strengths and interests and then follow through in any of a wide array of health-related career pathways. All students will have the opportunity to receive STNA (State Tested Nursing Assistant) certification which is a good foundation for all health careers. Pace is adapted to meet the needs of all students. An accelerated pathway is available for students who meet the admission requirements which include a 95% attendance, 2.5 minimum GPA, college track biology with a “C” or better and Algebra I.

**Information Technology**

One of the most dynamic career areas going today involves the multi-faceted Information Technology industry. Students gain the necessary skills to implement computer systems and software, create software, provide technical assistance, and manage information systems. Acquiring the skills needed to pass industry-wide, nationally recognized certifications play an integral part of this program.
Natural Resource Technologies

A wide range of experiences await students entering this multi-discipline program. A variety of career pathways are offered that can lead graduates to excellent post-secondary opportunities at area community colleges and technical schools or open doors that lead directly into the job market. Other college connections include agreements with The Ohio State University’s ATI program and Clark State University.

Power Equipment Mechanics

Greene County is recognized around Ohio for its strong agricultural base. Qualified technicians who can maintain and repair heavy equipment are in demand. The program is designed for students interested in learning hands-on skills in diesel, electrical, hydraulics, and gasoline engine repair and maintenance. Welding skills are also introduced.

Sports and Exercise Science

If you are interested in sports, exercise, conditioning, nutrition and fitness, this new program is for you! Our pathways can lead you to careers in personal fitness, athletic training or therapeutic careers. This challenging program provides instruction into techniques approved by the American College of Sports Medicine (ACSM) and the National Strength and Conditioning Association. Greene County Career Center commitment to the program includes the development of a state-of-the-art fitness/workout facility complete with diagnostic and therapeutic equipment. You will learn how to create exercise and fitness plans for adults and children. You don’t have to be an athlete to apply for Sports and Exercise Science. Students who care for others and have a strong interest in human anatomy, science and math can excel in this career field. The two-year course of study will be broken down into exercise and athletic training; nutrition and wellness, fitness evaluation and assessment and athletic injuries and prevention.

Veterinary Science

Students will get a jump start on a career in the veterinary field with this exciting new program! Students learn about all animals, small and large, and will get a well rounded education in Veterinary Science. Areas of instruction include: safety and sanitation, animal restraining techniques, office management, medical terminology, laboratory procedures, and principles of disease and animal behavior. Students will be able to take advantage of the new state-of-the-art, 50 acre facility that features modern classrooms, stables, riding trails and a 18,000-square foot show arena. Admission requirements include a 95% attendance, 2.5 minimum GPA, college track biology with a “C” or better and Algebra I.
Welding & Metal Fabrication

Welding and Metal Fabrication students develop entry-level and advanced skills and knowledge of shop safety, metal characteristics, welding applications, and project management. The Welding lab is one of the most modern and complete facilities in Ohio. The manufacturing industry is in dire need of talented and qualified welders. Students who learn the various styles of welding are able to take their skills to a variety of career areas.

TECH PREP PROGRAMS

All programs at the Greene County Career Center are College Tech Prep which is an educational pathway that leads to a two-year degree and beyond. Tech Prep combines hands-on career-technical laboratory experience with academically challenging, college preparatory classes. Through partnerships with Sinclair Community College and Clark State Community College, the Career Center provides a seamless transition into college for students in many programs.