

# COURSE DESCRIPTIONS – 2018-2019

## DEPARTMENT OF APPLIED SCIENCE AND TECHNOLOGY

Principles of Engineering and Technology – (1 unit) – In this course, students use 3D solid modeling design software to help them design solutions to solve proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. Students will be prepared to understand and apply technological concepts and processes that are the cornerstone for the high school technology program. Group and individual activities engage students in creating ideas, developing innovations, and engineering practical solutions. Technology content, resources, and laboratory/classroom activities apply student applications to science, mathematics and other school subjects in authentic situations. This course will focus on the three dimensions of technological literacy: knowledge, ways of thinking and acting, and capabilities, with the goal of students developing the characteristics of technologically literate citizens. Students may also be able to attain Industry Certification in SolidWorks 3D Modeling software. Prereq. – None; Recommended currently enrolled in Algebra A and B; Grade Levels – 9, 10, 11, 12

AP Computer Science – Web and App Development – (1 unit) – This course is designed to help students gain proficiency in the areas of programming and software development through coding in HTML5, CSS3, and JavaScript. The course has been developed to enable students to pass Microsoft's Technology Associate (MTA) HTML5 App Development Certification. Industry certification in these areas will help build a career in web and app based technology. AP Exam option also available. Prereq. – None; Grade Levels – 9, 10, 11, 12

Robotics & Automated Systems – (1 unit) -- This is an applied course for students who wish to explore how robots and automated systems are used in industry as well as to build and program. Participants in this class are strongly encouraged to participate in the Greeneville High School FIRST Robotics competition team as well as mentor the Greeneville Middle School VEX robotics team. Students will also learn the Python coding language and be able to attain Microsoft Certification in Python. Upon completion of this course, proficient students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems. Prereq – None; Grades – 9, 10, 11, 12

AV Production I (Videography) – (1 unit) -- This is a foundational course for students interested in digital video production. The students will learn the elements involved in basic video production, script writing, camera operations, short film production and video editing. Course content provides a broad-based exposure to audio, video and story creation within the media industry. Students will learn how to film, edit and produce video productions. Projects will include but not limited to PSA's, commercials, music videos, short films, etc. Prereq. – None; Grades 9, 10, 11, 12

AV Production II (Production) – (1 unit) – This course builds on the foundational skills learned in AVP I to further develop students' ability to direct, shoot, edit, and produce digital video content. AVP II prepares students by merging the artistic concepts of traditional filmmaking with the technological tools that can be utilized in everything from independent news gathering and documentary filmmaking to commercial production and video promotions. Students will utilize their skills they learned in AVP I to produce and edit video productions for Greeneville High School, Greeneville City Schools and the Greeneville community. Students will also learn the tools and process for producing the daily television news that is performed in AVP III. Prereq. – **AV Production I**; Grade Levels – 9, 10, 11, 12

AV Production III (News) – (1 unit) -- Students in the AVP III class will produce a daily television news program in a television studio. Working with advanced digital video equipment, students will learn every aspect of live television production including writing, directing, producing, editing, filming, reporting, and appearing as on-air talent. In addition to airing throughout the school, this newscast will be made available on the school system website. Prereq. –None (AV Production I recommended) Grade Levels – 10, 11, 12

## ART DEPARTMENT

The art department of Greeneville High School is designed to provide every interested student with an educational opportunity in art. The staff strives to develop an appreciation for art along with teaching concepts and developing skills.

The art department offers five courses that have no prerequisite and may be taken by any student interested in art that will meet the fine art credit requirement for college admission. For those who think they might want a career in the art field, the Art Department's teachers can help suggest a course of study to follow based on student interest and career goals.

Fine Art four-year plan for students interested in an art career. Freshman year, Art I, after that students take one course per semester depending upon interest. As the student has more elective space, more courses may be picked up.

Suggested fine art path starting freshmen year: Art I, Drawing, Painting, one 3D course (Sculpture or Ceramics), Advanced Art, Photography, studio art (sr. yr.).

Suggested 3D path starting the sophomore year: Folk Art, Ceramics I, Ceramics II, Sculpture, Advanced Art, studio art (sr. yr.).

The suggested paths listed above can be arranged based on individual student preference in different combinations. Any student who gets Art I first block during their freshmen year may move along the fine art path at a faster rate and take more courses of study.

Visual Art I - (1 unit) - Students have basic instruction in various areas of art such as drawing, painting, design, color and art history.

Prereq. - None; Grade Levels - 9, 10, 11, 12

Visual Art II (Traditional Folk Art) - (1 unit) - This course offers the student an introduction to a variety of folk art from the United States and around the world. Some of the projects will include batiks, quilting, stained glass and a variety of other mediums. History, vocabulary and craftsmanship stressed. This is a good course for those who like art but do not want to draw in the traditional manner.

Prereq. - None; Grade Levels - 10, 11, 12

Visual Art II (Drawing) - (1 unit) - Drawing is the in-depth study of composition and drawing techniques using a variety of mediums. Figure study, portraiture, fantasy, along with traditional still-life and landscape studies will be covered. A good class for students building a portfolio for college or career opportunities.

Prereq. - Visual Art I (B or better); Grade Levels - 10, 11, 12

Visual Art II (Ceramics) - (1 unit) - An introduction to both hand-building techniques and basic wheel techniques in clay. Vocabulary, exposure to ceramic trends, glazing techniques, and individual creativity and craftsmanship stressed.

Prereq. - None; Grade Levels - 10, 11, 12

Visual Art II (Sculpture) - (1 unit) - Students will have the opportunity to work in a variety of three-dimensional shapes and forms. A wide range of materials will be used.

Prereq. - None; Grade Levels - 10, 11, 12

Visual Art II (Photography I) - (1 unit) – Photography I is an introductory course in digital photography and graphic design. Students will learn the parts and operation of digital single-lens reflex (DSLR) cameras. They will also learn the basics in operating Adobe Photoshop CS5. We will be working with computer software to produce artistic digital images. They will study the basics and importance of composition, design, lighting, and final print presentation. Students must have a camera for this course. This is an art course and the concentration in this course is on learning the fine art of photography.

Prereq. - None; Grade Levels - 11, 12 (It is recommended that students have a driver's license when taking this course.)

Visual Art III (Yearbook A & B) – (1 unit) – This course is a combination of Journalism, Photography, Graphic Design, and Business Administration. Staff members will take pictures, research, interview, write and develop print-worthy spreads. Yearbook students must be able to work independently and meet deadlines. Students are expected to work before, during and after school. This class requires the commitment of the students to attend events outside of school hours as active photographers and journalists. Students are required to commit to one full year (2 semesters). Yearbook is an elective credit course.

Prereq. – **Admission into the program must be preapproved by the yearbook adviser and recommended by the counselors.**

**Freshmen** wishing to be in the class **must have participated in yearbook at the middle school level.** Grade Levels – 9, 10, 11, 12

Visual Art III (Painting) - (1 unit) - This course provides students the opportunity to work in both watercolor and acrylic mediums. Vocabulary and history will be covered.

Prereq. - Visual Art I, Drawing (B or better); Grade Levels - 10, 11, 12

Visual Art III (Ceramics II) – (1 unit) – This course continues and builds on what was learned in Ceramics I with larger pieces, hand-built and/or wheel work.

Prereq. – Must have a “90” or better in Ceramics I; Grade Levels – 10, 11, 12

Visual Art III (Folk Art II) – (1 unit) – This course continues the student of folk cultures with new projects and delving more in-depth on some previous projects at an advanced level.

Prereq. – Must have a “90” or better in Folk Art I; Grade Levels – 11, 12

Honors Visual Art IV (Advanced Ceramics) – (1 unit) – This course is for the serious potter that is thinking about pursuing a degree in Ceramics at the college level. The coursework concentrates on starting to develop a thematic series or style in clay.

Prereq. – Must have a “90” or better in Ceramics I & II with teacher approval; Grade Levels – 11, 12

Visual Art IV (Advanced Art) - (1 unit) - Advanced Art offers more difficult studio projects in a variety of mediums, such as fabrics, drawing, painting, sculpting, plus a unit of independent studies. Emphasis will be placed on compiling a portfolio for college and career opportunities.

Prereq. - Visual Art I plus two Art production courses other than photography (90 or better in all courses) with teacher approval;

Grade Levels - 11, 12

Honors Visual Art IV (Adv. Studio Art) – (1 unit) – This course is a continuation of individual directed study in one field of art. For the serious art student pursuing an art career.

Prereq. – Advanced Art, Teacher recommendation; Grade Levels - 12

## **MICROSOFT IT ACADEMY**

**Computer Science – Productivity Specialist** – (1 unit) – This course is designed to provide students with opportunities to become certified Microsoft Specialists in Microsoft productivity tools such as Word, Excel, PowerPoint, and Access. Students will be able to attain industry certification with any of these products which will greatly enhance their career and academic readiness.

Prereq. – None; Grade Levels – 9, 10, 11, 12

**Computer Science – Productivity Expert** – (1 unit) – This course is designed to provide students who currently hold specialists certifications in Word and/or Excel the opportunity to advance to an industry Microsoft Expert Certification in Word and/or Excel as well as to attain Specialist Certifications with Word, Excel, PowerPoint, and Access.

Prereq – Computer Science Productivity Specialist; Grade Levels – 9, 10, 11, 12

## **DEPARTMENT OF BUSINESS EDUCATION**

The Business Education curriculum is designed to allow students to develop competency in business occupations and to shape students into well-informed consumers and members of the economic community. The dual mission of Business Education is to provide students with employability skills such as teamwork, problem solving, decision-making, time and money budgeting, communication and technical skills; and to equip students with the knowledge to make wise personal and business decisions. The Department has expanded its technology program to include various computer courses so that students will have the necessary technology skills to compete in the work force and to interact comfortably with the ever-changing world of technology.

**Accounting I** - (1 unit) - This course provides an introduction to the field of accounting. The principles of debit and credit, the accounting cycle, the interpreting and recording of business transactions, and the preparation of Financial Statements for businesses are studied. Students will have the opportunity to work through an entire accounting cycle for a business. Automated accounting practices are used to emphasize and review the basic accounting principles. The reasoning, organization, and decision-making skills taught make Accounting I a good course for any student planning a professional or business career.

Prereq. - None (A good understanding of basic math skills is recommended); Grade Levels - 10, 11, 12

**Accounting II** – (1 unit) – This course is an advanced study of concepts, principles, and techniques used by businesses to maintain electronic and manual financial records. This course expands on content explored in Accounting I to cover the accounting of a variety of different firms, including merchandising, manufacturing, and service-oriented businesses.

Prereq. – Accounting I; Grade Levels – 11, 12

**Intro to Business & Marketing** - (1 unit) - This course is designed for students interested in acquiring introductory business and financial information for personal use or as an initial course for students planning a career in business. Students will develop decision-making skills that will help them determine career paths, manage resources, and analyze financial statements. Some of the topics covered will be career exploration, the economy and business, consumer rights and responsibilities, marketing, insurance and investments, and financial management. This course fosters a fast paced environment much like the real world workforce.

Prereq. - None; Grade Levels - 9, 10

**Computer Applications** - (1 unit) – In addition to learning touch typing, students will learn how to use various software productivity programs. The Business Department is currently using MS Word, Excel, Access, PowerPoint, and/or alternate industry-specific programs. Students will develop skills that will be immediately beneficial in the classroom, college and/or work environment. This course is a prerequisite for Advanced Computer Applications.

Prereq. – None; Grade Levels – 9, 10, 11, 12

**Banking and Finance** – (1 unit) – This course is designed to challenge the student with real banking and financial situations through a partnership with a local financial institution that would bring resources of mentors, seminars, and hands-on experience with day-to-day operations. Completion of this course will provide students with a basis for continuing education in finance and business administration specializing in job skills in banking and financial institutions. Ethical issues will be presented in the course.

Prereq. – Computer Applications; Recommended Prereq. - Personal Finance, Accounting I; Grade Levels – 11, 12

## **DEPARTMENT OF HUMAN SERVICES (Formerly Family & Consumer Sciences)**

Tennessee's Career and Technical Education (CTE) Program of Study are meant to provide a relevant framework of industry-aligned, rigorous courses that progress a student in knowledge and skills year after year. They also provide invaluable opportunities for students to experience a subject they are passionate about and explore interest that could lead to postsecondary learning and future career paths. These sequenced courses also reflect and support the three credit "elective focus" requirement for graduation. Level-one courses are most often taken by students in ninth grade; however, a district may make scheduling decisions that work best for their community and students.

To become a concentrator in CTE and to fulfill the elective focus requirement, a student must earn three credits in a Program of Study or a Career Cluster. Courses in a Career Cluster include those listed as part of the Program of Study, as well as courses that are identified as cluster electives. Greeneville High offers two Program of Student for concentration under the Human Services cluster: Nutrition and Dietetics and Social and Mental Health.

Introduction to Human Services – (1 unit) – Introduction to Human Services is an elective course which serves as the foundational course for students interest in pursuing a career as a dietician, nutritionist, food service worker, chef, food scientist, public advocate, social worker, counselor, parent or community volunteer. The course will provide an introduction into food safety and preparation skills, nutrition, family relationships, human needs, life management skills, communication, mental health and career investigation. This course is a prerequisite for students wishing to follow the Nutrition and Dietetics OR Social and Mental Health focus area requirements.  
Prereq. – None; Grade Levels - 9

Lifespan Development – (1 unit) – Lifespan Development builds basic knowledge in human growth and development. The content of this course address developmental theories, principles of growth, behavior of children from conception through adolescence, adult development and aging, death and dying. This course is a prerequisite for students wishing to follow the Social and Mental Health focus area requirements.  
Prereq. – None; Grade Levels - 10

Family Studies – (1 unit) – Family Studies is an applied knowledge course that examines the diversity and evolving structure of the modern family. Content focuses on the demographic, historical and social changes of interpersonal relationships, as well as parenting, and the effect of stressors on the family.  
Prereq. – None; Grade Levels – 11

Nutrition Across the Lifespan - (1 unit) – Nutrition Across the Lifespan is for students interested in learning more about becoming a dietician, nutritionist, counselor, pursuing a variety of scientific, health or culinary arts professions or those just interest in learning more about food safety, preparation and nutrition. This course covers human anatomy and physiological systems, nutrition requirements, as well as social, cultural, and other impact on food preparation and integrity. Students have several lab opportunities to learn food preparation skills. This course is a prerequisite to Nutrition Science and Diet Therapy for those student wishing to follow the Nutrition and Dietetics focus area requirements.  
Prereq. – None; Grade Levels – 10, 11, 12

Nutrition Science and Diet Therapy – (1 unit) – Nutrition and Diet Therapy is an applied knowledge course in nutrition for students interest in the role of nutrition in health and disease. This course covers the development of a nutrition care plan as part of the overall health care process. Methods for analyzing the nutritional health of a community are explore. The relationship of diet and nutrition to specific diseases will be researched including the role of diet as a contributor to disease and its role in the prevention and treatment of disease. This course will allow students several lab opportunities.  
Prereq. – Nutrition Across the Lifespan; Grade Levels – 11, 12

Foundations of Interior Design – (1 unit) – This course is a specialized course designed to prepare students to understand the influences affecting housing decisions. Emphasis is on using available resources effectively to meet individual housing needs as well as a focus on the interior of living environments. Fundamental instruction is provided in the application of skills, knowledge and design principles needed to create aesthetically pleasing living and work environments.  
Prereq. – None; Grade Levels – 11, 12

## **DEPARTMENT OF ENGLISH**

English 9 - (1 unit) - This course is designed to provide a foundation in vocabulary, literature, grammar/composition, and research. Students will be introduced to various types of writing including the four basic types of essays. The literature study will include short stories, dramas, a novel, poetry and/or non-fiction. Emphasis will be placed on important story elements and literary forms and techniques. Students may be required to read at least two books as out-of-class assignments.  
Prereq. - None; Grade Levels – 9, 10, 11, 12

Honors English 9 – (1 unit) – This course encompasses the same criteria as listed for English I above, but the course will be taught on an accelerated level. There will be a required reading list for students to complete prior to August (beginning of school). This list will be given to students who request this course at registration, and it will also be posted on the website. There will be class assignments associated with the Honors English I reading List. For summer reading, students will read *The Aeneid* by Virgil and one contemporary piece from a list of approved titles. Students are highly encouraged to purchase the books so that they can annotate and have a copy for class discussion and assignments. On the other text, they will have to write a journal with textual evidence. This will also be due the first day of class, but students may turn it into TurnItIn online at any time. More information will be provided. However, copies will be available at the Greeneville/Greene County Library for checkout. Students may take the test over one book during the summer or on the afternoon of the first full day of school in August. Because this course is taught at an accelerated level, students can expect consistent outside reading and other out-of-class work.

Prereq. – TCAP scores and/or teacher recommendation

English 10 - (1 unit) - This course offers more work in vocabulary, literature, and grammar/composition. There is emphasis on improving students' writing skills through grammar study, practice with the four basic types of writing, and various writing opportunities, both expressive and expository. The literary study includes the short story, drama, the novel, poetry, non-fiction, and informational text. The selections are multi-ethnic/cultural. There are also at least two out-of-class readings assigned.

Prereq. - English 9; Grade Levels - 10, 11, 12

Honors English 10 – (1 unit) – This course encompasses the same criteria as listed for English II above, but the course will be taught on an accelerated level. There will be a required reading list for students to complete prior to August (beginning of school). This list will be given to students who request this course at registration, and it will also be posted on the website. For summer reading, students will choose one contemporary and one classic text from a list of approved titles. Students are highly encouraged to purchase the books so that they can annotate and have a copy for class discussion and assignments. However, copies will be available at the Greeneville/Greene County Library for checkout. Students may take the test over one book during the summer or on the afternoon of the first full day of school in August. On the other text, they will have to write a journal with textual evidence. This will also be due the first day of class, but students may turn it into TurnItIn online at any time. More information will be provided. However, copies will be available at the Greeneville/Greene County Library for checkout. Students may take the test over one book during the summer or on the afternoon of the first full day of school in August. There will be class assignments associated with the Honors English II Reading List.

Prereq. – Teacher recommendation with “A” or “B” in English 9; Grade Levels – 10

English 11 - (1 unit) - This course includes instruction and practice in composition and literature. During the examination of the writing process, students study and use grammar skills in conjunction with composition. The composition program stresses the mastery of the four types of discourse while also providing practice with various forms of writing. A research unit includes library and research skills culminating in the production of a research paper. The literature study involves the chronological survey of American literature. Supplemental readings include novels by American writers. A vocabulary study completes the course.

Prereq. - English 9, 10; Grade Levels - 11, 12

Advanced Placement English 11 - (1 unit) – This class provides a rigorous course of study to prepare students for the AP test in English Language and Composition. The course will feature a “wide variety of nonfiction texts—from newspaper editorials to critical essays and political treatises—in order to discover what others are thinking, saying, and doing in the world. Familiarity with these conversations will help students become informed and rhetorically competent writers who not only consider the views of others but use writing as a way to formulate and convey their own responses” (College Board Course Description, 2014). Upon completing the course, students should be able to analyze and interpret samples of purposeful writing; analyze images and other multimodal texts for rhetorical features; use effective rhetorical strategies and techniques when composing; write for a variety of purposes; create and sustain original arguments based on information synthesized from readings, research, and/or personal observation and experience; and demonstrate understanding and control of standard written English as well as stylistic maturity in their own writing. There will be a required reading list for students to complete prior to August (beginning of school). This list will be given to students who request this course at registration, and it will also be posted on the website. For summer reading, students will choose one contemporary and one classic text from a list of approved titles. Students are highly encouraged to purchase the books so that they can annotate and have a copy for class discussion and assignments. However, copies will be available at the Greeneville/Greene County Library for checkout. Students may take the test over one book during the summer or on the afternoon of the first full day of school in August. On the other text, they will have to write a journal with textual evidence. This will also be due the first day of class, but students may turn it into TurnItIn online at any time. There will be class assignments associated with the AP English 11 Reading List. Students can earn from three to nine hours of college credit by taking the AP exam. Students are prepared to take the exam and required to do so.

Prereq. – English 9, 10; EOC scores and/or teacher recommendation.

English 12 - (1 unit) – This course features continued refinement of writing skills, to include literary analysis, research-oriented papers and projects, argumentation, exposition, narrative writing, and vocabulary growth. The literary study is a chronological survey of British literature and will include at least two British novels as out-of-class assignments. The purpose of this class is to prepare students to be able to communicate competently (reading, writing, speaking, and listening) in the workplace and in postsecondary educational pursuits.

Prereq. - English 9, 10, 11; Grade Levels - 12

Advanced Placement English 12 - (1 unit) – This course provides an intensive course of study to prepare students for the AP test in English Literature and Composition. The course will include units in short fiction, poetry, the novel, and drama, with emphasis on reading and analyzing works of British and world literature. Students will practice strategies for the multiple choice section of the test and will write essays of analysis (both timed in class and out of class) to prepare for the three types of essays on the exam. For summer reading, AP students are required to read *How to Read Literature Like a Professor* and will choose one novel from a list of classics. There will be a required reading list for students to complete prior to August (beginning of school). This list will be given to students who request this course at registration, and it will also be posted on the website. For summer reading, students will choose one contemporary and one classic text from a list of approved titles. Students are highly encouraged to purchase the books so that they can annotate and have a copy for class discussion and assignments. However, copies will be available at the Greeneville/Greene County Library for checkout. Students may take the test over one book during the summer or on the afternoon of the first full day of school in August. On the other text, they will have to write a journal with textual evidence. This will also be due the first day of class, but students may turn it into TurnItIn online at any time. There will be class assignments associated with the AP English 12 Reading List. More information will be provided. Students can earn from three to nine hours of college credit by taking the AP exam. Students are prepared to take the exam and required to do so.

Prereq. - English 9, 10, 11; EOC scores and /or teacher recommendation. Grade Levels - 12

Speech and Communications - (1 unit) – This class is designed for the college-bound student to enhance one’s public speaking skills. The focus of the class will be Debate, Extemporaneous Speaking, Original Oratory, Impromptu and After Dinner Speaking. Other topics will also be covered. Participation in Saturday tournaments is a requirement of this class.

Prereq. – None; Grade Levels – 11, 12

ENGLISH as a SECOND LANGUAGE (ESL) – Sequence

ESL English – 9<sup>th</sup> grade

ESL English - 10<sup>th</sup> grade

English 9 – 11<sup>th</sup> grade

English 10 – 12<sup>th</sup> grade

ACT/SAT Prep - (1 unit) - This course will prepare students for taking the ACT and SAT. Students will review each test area, take practice tests, explore learning styles, and study test-taking skills. The course will deal with specific skills tested on college entrance exams. Students will use computer software for practice tests and test-question evaluations. Students should plan to take this course either as preparation prior to taking the ACT or SAT or as remediation after taking the ACT or SAT for the first time.

Prereq. - None; Grade Levels – 10, 11, 12

College & Career Transition – (1 unit) – This course is designed to assist seniors in the transition from high school to college. This course will emphasize self-assessment and self-direction, team building, college classroom expectations, independent living, and service learning. Class activities may include completing college applications, scholarship searching and applications, resume building, college search, career and interest inventories, career and college exploration, community service reflections, and connections with local industries.

Prereq. – None; Grade Levels - 12

## **DEPARTMENT OF FOREIGN LANGUAGE**

French I - (1 unit) - French I stresses a basic understanding of the language through conversational patterns, vocabulary, reading, writing skills, and pronunciation. Instruction is given in French as much as possible with help from technology and multimedia. The student studies French culture through various appropriate class activities and experiences.

Prereq. - English skills at grade level; Grade Levels - 9, 10, 11, 12

French II - (1 unit) - French II develops reading, writing, and comprehension skills through an analysis of French grammar. Speaking skills are maintained through practice extended from French I skills. Cultural study is maintained through various materials and resources initiated in French I.

Prereq. - French I; Grade Levels - 10, 11, 12

French III - (1 unit) - French III presents an in-depth review and study of grammar skills developed in levels I and II. French history and literary selections are used to help the continued study of cultural understanding and the oral and written comprehension and usage by the individual student. Students prepare and practice conversational skills to strive for functional language experience. Students are encouraged to comprehend and to use French. An introduction to French literature is included. Emphasis is on communication through the use of the language.

Prereq. - French I and II; Grade Levels – 10, 11, 12

Latin I - (1 unit) - A student receives an introduction to the Roman World through culture, language, and geography and the eruption of Mt. Vesuvius in 79AD. The Romans’ daily life emphasizes the house, food, colors, numbers and Pompeiana graffiti. A student also studies the Roman’s influence on modern life, including Latin phrases, English derivatives, and uses of water. Each student needs to have an extensive knowledge of English grammar. Oral and aural practice is stressed with continuous drill and vocabulary. A student will study Greek and Roman mythology through translations.

Prereq. - English skills on grade level; Grade Levels - 9, 10, 11, 12

Latin II - (1 unit) - Latin II continues the study of the Roman culture and history, Latin grammar, vocabulary, Latin phrases, and English derivatives. Oral and aural practice is stressed with reading of the Latin sources. A student will study the Roman Monarchy through translations.

Prereq. - Completion of Latin I with C average or higher; Grade Levels- 9, 10, 11, 12

Latin III (Prose) - (1 unit) - Students will read from the writings of Julius Caesar (Bellum Gallicum) and continue the study of Roman history with the Roman Republic. Grammar from previous years is reviewed, and other points of grammar are studied. Roman law, religion, government, army, art works, and the city of Rome are studied. Memorization of famous Latin passages is required. Julio-Claudian family and history are studied through I. Claudius.

Prereq. - Latin I & II with a C or higher average; Grade Levels - 10, 11, 12

Latin IV (Poetry) - (1 unit) - Each student will read Vergil's Aeneid, books 1, 2, 3, 4, 6 in original poetry form. Emphasis is given to figurative language in English and Latin. Major projects will be conducted by students in connection with translations. Grammar and vocabulary reviews are constantly used. Students study the Golden Age of Rome (29 B.C. - 14 A.D.) with major emphasis on Caesar Augustus' political propaganda through art, architecture, and literature.

Prereq. - Latin I & II with a C or higher average; Grade Levels - 10, 11, 12

Spanish I - (1 unit) - Spanish I emphasizes communication through speaking, listening, writing, and reading. Everyday conversation and basic grammar are stressed. Students begin paired conversation and oral presentations. Comprehension is facilitated through the use of videos and audio tapes. From the beginning, instruction is given in Spanish as much as possible. An introduction to Hispanic culture is included.

Prereq. - English skills on grade level; Grade Levels - 9, 10, 11, 12

Spanish II - (1 unit) - Spanish II provides continued instruction in speaking, listening, reading, and writing. Many more grammatical concepts are presented. Communication is enhanced through paired conversation and oral presentations. Conversational skills are emphasized. Instruction is given in Spanish as much as possible. The exploration of Hispanic culture is continued.

Prereq. - Spanish I; Grade Levels - 9, 10, 11, 12

## **DEPARTMENT OF MATHEMATICS**

**Possible math course sequences for grade 9, 10, 11 & 12 students:** ALL STUDENTS MUST TAKE A MATH CLASS EACH GRADE LEVEL YEAR INCLUDING CREDITS IN ALGEBRA I, ALGEBRA II, GEOMETRY, AND ONE ADDITIONAL MATH COURSE).

## **MATHEMATICS COURSE DESCRIPTIONS**

Algebra A - (1 unit) - This course covers two-thirds of the Algebra I content material of the State math framework. It includes properties of operations, variables, rational and irrational numbers, solving equations, ratios, rate and unit conversion, solving inequalities, an introduction to functions, linear functions, graphing linear functions and inequalities, systems of equations and inequalities, exponents and exponential functions, polynomials and factoring, quadratic functions and equations. Algebra A/Algebra B should be taken in two sequential terms.

Grade Levels - 9

Algebra B - (1 unit) - This course covers the last one-third of Algebra I content and the first one-third of Algebra II content. It includes radical expressions and equations, rational expressions and functions, data analysis and probability, expressions, equations, and inequalities, functions and graphs, linear systems, quadratic functions and equations, and complex numbers. Algebra A/Algebra B should be taken in two sequential terms.

Prereq. - Algebra A; Grade Levels – 9

Algebra C - (1 unit) - This course is the final course of Algebra A-B-C series. The course includes real numbers, equations and inequalities, functions and graphing, systems of equations, polynomials, rational expressions, radicals, quadratic functions and complex numbers, conics, polynomial functions, exponential and logarithmic functions, sequences and series, probability and matrices. Algebra II credit is earned in this course.

Prereq. - Algebra A, Algebra B; Grade Levels - 10

Algebra IA – (1 unit) – This course covers one-half of the Algebra I content material of the state math framework. It includes properties of operations, variables, solving equations, polynomials, graphing, linear equations, rational and irrational numbers, and quadratic formula. Algebra 1A/Algebra 1B should be taken in **two** sequential terms.

Prereq. – None; Grade Levels – 9

Algebra IB – (1 unit) – This course covers the last one-half of the Algebra I content. Algebra 1A/Algebra 1B must be taken in sequential terms.

Prereq. – Algebra 1A; Grade Levels – 9

Algebra IIA – (1 unit) – This course covers one-half of the Algebra II content material of the State math framework. The course includes real numbers, equations and inequalities, functions and graphing, systems of equations, polynomials, radicals, quadratic functions and complex numbers, polynomial functions, and exponential/logarithmic functions. Algebra IIA/Algebra IIB must be taken in sequential terms.

Prereq – Algebra 1A, Algebra 1B; Grade Levels – 10

Algebra IIB – (1 unit) - This course covers the last one-half of the Algebra II content material of the State math framework. Content includes rational expressions, sequences/series, conics and polynomial functions, probability and statistics, and trigonometric ratios/identities.

Prereq – Algebra II A; Grade Levels – 10

Honors Algebra A - (1 unit) - This course is the first half of the Algebra I curriculum intended for college-bound students who have an exceptionally high aptitude for mathematics. This course covers two-thirds of the Algebra I content material of the state math framework. It includes properties of operations, variables, solving equations, polynomials, graphing, linear equations, rational and irrational numbers, and the quadratic formula. Honors Algebra A/Honors Algebra B should be taken in sequential terms.

Grade Levels - 9

Honors Algebra B - (1 unit) - This course is an Algebra I course intended for college-bound students who have an exceptionally high aptitude for mathematics. This course covers properties of operations, variables, solving equations, polynomials, graphing, linear equations, rational and irrational numbers, and the quadratic formula. Honors Algebra A and B must be taken in sequential terms. Honors Algebra B will also cover Chapters 1-4 in the Algebra II book.

Prereq. – Honors Algebra A; Grade Levels – 9

Honors Algebra C - (1 unit) - Honors Algebra C covers real numbers, equations and inequalities, functions and graphing, systems of equations, polynomials, rational expressions, radicals, quadratic functions and complex numbers, conics, polynomial functions, exponential and logarithmic functions, sequences and series, probability and matrices. Honors Algebra C should be taken in the sequence Honors Algebra A/Honors Algebra B/Honors Algebra C/Honors Geometry

Prereq. – Honors Algebra A, Honors Algebra B; Grade Levels – 10

Geometry - (1 unit) - This course covers the study of two- and three-dimensional figures and concepts. Emphasis is placed on definitions, postulates, theorems, and deductive proofs as related to points, lines and planes.

Prereq. - Algebra A, Algebra B, Algebra C or equivalent; Grade Levels – 11

Geometry A – (1 unit) – This course covers the student of two- and three-dimensional figures and concepts. Emphasis is placed on definitions, postulates, theorems, and deductive proofs as related to points, lines and planes. Geometry A covers one-half of the Geometry content material of the state standards.

Prereq. – Algebra IIA, Algebra IIB; Grade Levels – 11

Geometry B – (1 unit) – This course covers the study of two- and three-dimensional figures and concepts. Emphasis is placed on definitions, postulates, theorems, and deductive proofs as related to points, lines and planes. Geometry B covers the last one-half of the Geometry content material.

Prereq. – Geometry A; Grade Levels – 11, 12

Honors Geometry - (1 unit) - This course is an honors course in geometry. It covers the study of two- and three- dimensional concepts and figures. Emphasis is placed on definitions, postulates, theorems, and the deductive proof as related to points, lines, and planes.

Honors Geometry should be taken in the sequence Honors Algebra A/Honors Algebra B/Honors Algebra C/Honors Geometry

Prereq. – Hon. Algebra A, Honors Algebra B, Honors Algebra C; Grade Levels – 10

Applied Mathematical Concepts – (1 unit) – This course is designed to prepare students for both college and the work place. Combined standards are from senior finite math and discrete mathematics. **FOR SENIORS ONLY.**

Prereq. – Algebra A, B, C (or equivalent), Geometry – Placement based on Math ACT sub-score; Grade Levels – 12

Dual Credit Statistics – (1 unit) – Students choosing this course must have at least 19 on the math portion of the ACT. Statistics covers univariate and bivariate data, permutations and combinations, probability of compound events, discrete probability distributions, normal probability distributions, characteristics of well-designed studies, design and conduct a statistical experiment, inferences about a population based on a random sample, confidence intervals, and distributions.

Prereq. – Algebra II (or equivalent) and Geometry, Placement based on math ACT sub-score; Grade levels – 11, 12

SAILS (Seamless Alignment and Integrated Learning Support) – (1 unit) – This course is open to rising seniors who are not yet ready for college-level math (placement based on ACT math subtest). This class gives you a great opportunity to eliminate the need for remedial math when you go to college and will allow you to master the math competencies needed to be successful in college math while at the same time earning your high school bridge math credit required for graduation. You will be working in a computer lab in your high school with the support of your high school teacher/facilitator, a coordinator and the community college faculty and administration. This program is totally free and will save you time and money in your college studies. You may also elect to take an actual college-level math class in the spring semester after completing your learning support math in the fall.

Prereq – Alg. A, B, C (or equivalent) and Geometry; Placement based on math ACT sub-score; Grade Level: 12



Honors Dual Credit Statistics - (1 unit) - This course is taught for college-bound students who plan to take Calculus as a senior. Statistics covers univariate and bivariate data, permutations and combinations, probability of compound events, discrete probability distributions, normal probability distributions, characteristics of well-designed studies, design and conduct a statistical experiment, inferences about a population based on a random sample, confidence intervals, and distributions.

Prereq. – Algebra A, B and C, Geometry; Grade Levels – 11

Pre-Calculus - (1 unit) - This course is to prepare college-bound students for a first course in Calculus or College Algebra and Trigonometry. Algebra and analytic geometry are integrated with other important topics in mathematics by an approach, which emphasizes functions. Separate topics include polynomial, circular, second-degree relations, transcendental functions, and introduction to limits. Pre-calculus concepts of limits, derivatives and integrals are considered from an elementary viewpoint.

Prereq. - Alg. A & Alg. B & Alg. C (or equivalent), Geometry and Hon Statistics; Grade Levels - 11, 12

Honors Pre-Calculus - (1 unit) - This course is taught for college-bound students who are planning to take AP Calculus as a senior. Algebra, trigonometry and analytic geometry are integrated with other important topics in mathematics by an approach, which emphasizes functions. Topics include polynomial, circular, and transcendental functions. Pre-Calculus concepts of limits and derivatives are covered from the AP Calculus Book.

Prereq. – Hon.Alg. A, B and C, Hon. Geo.; Grade Levels – 11

Calculus - (1 unit) - This senior math course will explore concepts of calculus including limits, differentiation, and integration. This course does not prepare students for AP testing.

Prereq.- Alg. A & Alg. B & Alg. C (or equivalent), Geo., Honors Stats and Pre/Cal., ; Grade Levels - 12

Honors Pre-Advanced Placement AB Calculus – (1 unit) – Students begin to explore concepts of calculus while developing a deeper understanding and application of trigonometry standards, derivatives, and limits.

Prereq. – Hon Pre-Calculus; Grade Levels – 11

Advanced Placement AB Calculus - (1 unit) - [May be combined with Calculus above] - Students explore concepts of calculus in curved space, variable rates of speed, irregular paths, and areas of regions with curved boundaries. Extensive study of derivatives, integrals, limits and sequences including formulas and proofs are also covered. All Advanced Placement AB Calculus objectives are included. Honors Pre-Calculus/Honors Pre-Advanced Placement AB Calculus/AP AB Calculus should be taken in three sequential terms.

Prereq. – Hon.Alg. A, B & C, Hon. Geo., Hon.Pre-Cal. Hon Pre-Advanced Calculus; Grade Levels - 11, 12

Honors Post Advanced Placement AB Calculus – (1 unit) – This course is an extension of AP Calculus in which abstract calculus concepts and theorems are covered. Formulas and proofs of sequences are examined. Time is spent studying the style and format of AP exams including times settings.

Prereq. – Advanced Placement AB Calculus; Grade Levels – 11, 12

## **DEPARTMENT OF MUSIC - INSTRUMENTAL**

Instrumental Music (Band) - (1 unit of credit per term—2 units of credit for full year) - Band is a full-year course. During the fall term, the band is a marching band until the end of football season. The marching band performs at all Varsity football games (home and away) and competes on occasional Saturday afternoons at festivals. Students who are unable to go to band camp are used as alternates during marching season. At the conclusion of marching season, the band becomes a concert band that performs concerts and competes in festivals. Incoming members must demonstrate minimum performance skills, which are taught at the middle school level, in order to be admitted as regular band members. Fall term band earns one unit of credit.

The flag corps for the marching band is made up of both playing and non-playing members who audition in the spring of the preceding year. Non-playing members should sign up for band first term only, and they will receive one unit of credit. Playing members should sign up for both terms of band. They will receive one unit of credit for each term.

During the spring term, the band will be divided into two bands, concert and symphonic, each meeting during different periods. Students will be placed in one of the two bands based upon an audition. Auditions will be completed in time that students' schedules can be arranged prior to the beginning of spring term. Freshmen will automatically be placed in concert band. Students will earn one unit of credit for spring term.

Band is a full-year course. If a student drops out at the end of a term, he/she is not guaranteed readmission to the band. Irreconcilable schedule conflict is the only acceptable reason to drop band for which re-admission is guaranteed.

In order to be eligible to participate in trips and other band-related activities (i.e., senior clinics, solos and ensembles, etc.) taken by the band, a student must be enrolled in band for the whole term that the trip is taken. Exceptions to this are guard or majorette members that do not play an instrument.

Prereq. - Demonstrate minimum performance skills (taught at middle school level); Grade Levels - 9, 10, 11, 12

Instrumental Band (Jazz Band) - (0 credit/No grade awarded) - Jazz Band meets after school one day per week. The band plays jazz and popular music and performs periodically in schools, for the community, and in at least one public concert each year. Students must have the approval of the band director before they register for this class. Students must also be enrolled in a regular block class during the term they are participating. Exceptions to this will be based on the need of the ensemble.

Prereq. - Approval of band director; Grade Levels - 9, 10, 11, 12

## **DEPARTMENT OF MUSIC – CHORAL**

**\*For scheduling purposes, “A” denotes First Term; “B” denotes Second Term**

\*Vocal Music I - (1 unit of credit per term) - This course is open to any student who wishes to participate in a choral performance organization. Students must master musical fundamentals and attain a beginning level of sight-reading and part independence. They must participate in all performances of the chorus and obtain a uniform. All entering ninth grade students interested in choral music should register for Vocal Music I. This course fulfills the requirement for a performing arts credit required for college admission. Full-year enrollment is recommended for students wishing to advance in Vocal Music.

Prereq. - None; Grade Levels – 9-12 (Any student may enter into this class).

\*Vocal Music II - (1 unit of credit per term) - This course is open to students who desire to participate in a choral performance organization working at a higher difficulty level than Vocal Music I. The course is designed as a class to bridge Vocal Music I with Vocal Music III. Students must master music fundamentals and attain an intermediate level of sight-reading and part independence. There are required performances, activities, and uniforms. This course fulfills the requirement for a performing arts credit required for college admission.

Prereq. -None; Grade Levels - 10, 11, 12

\*Vocal Music IIB (Spring Semester) - Women’s Concert Choir – (1 unit of credit per term) – This auditioned women’s choir is open to students who desire to participate in an auditioned choral performance organization working at a higher level of difficulty than Vocal Music I. Students must master music fundamentals and attain an intermediate level of sight-reading and part independence. There are required performances, activities, and uniforms.

Prereq. – Audition; Grade Levels – 10, 11, 12 Females. (Transfer students may request an audition.)

\*Vocal Music III - Advanced Chorus - (1 unit of credit per term) - This course is an advanced choral class. Students are accepted on the basis of audition. Students must master music fundamentals and attain a high level of sight-reading and part independence. Students must participate in required performances and festivals as members of advanced chorus. This course fulfills the requirement for a performing arts credit required for college admission. **Vocal Music III is a full-year course.**

Prereq. – Vocal Music I or Vocal Music II; Audition Required; Grade Levels - 10, 11, 12

Advanced Placement Music Theory and Harmony – (1 unit) – An advanced level class for those students wishing to add to their base of musical knowledge through study of the fundamentals of music, composition, ear training, sight-reading and analysis of musical compositions. AP Music Theory may be used as a college preparatory class by students wishing to continue their musical education but will also benefit advanced band and choral students as well. This class is taught in the fall. The AP Exam is in May, after review sessions.

Prereq. – **Students entering the class must have a primary instrument (instrumental, vocal or piano) and have significant previous experience in music. Grade Levels – 11, 12 – (10<sup>th</sup> grade students accepted only by instructor approval.)**

Show Choir – (0 credit/No grade awarded) – Show Choir meets on Monday afternoons from 2:45 – 4:30 from January to May. Students are accepted on the basis of auditions in January. The show choir sings popular music, jazz and show tunes and entertains frequently in the community.

Prereq. – None; Grade Levels – 9, 10, 11, 12

**\*For scheduling purposes, ‘A’ denotes First Term; ‘B’ denotes Second Term.**

Gospel Choir – (0 credit/No grade awarded) – Gospel Choir meets Monday afternoons from 2:45-4:30 from August to December. Students are accepted on the basis of auditions in August. The Gospel Choir sings sacred music and entertains frequently in the community.

Prereq. – None; Grade Levels – 9, 10, 11, 12

## **OFFICE ASSISTANTS**

Office Assistants - (0 credit) - This course is one term in length. The student will assist the staff in one of the offices—main, attendance, or guidance. Regular attendance is mandatory. Poor attendance and/or performance will result in the student being placed in lunch detention and restricted from future participation. Office assistant carries no credit. Grades will be given. The student must get prior approval. This course cannot be taken during the same term as peer tutoring or any PE class (only one of these courses can be taken each term).

Prereq. – Application Required; Grade Levels - 11, 12

Office Assistant (Tech Lab) – (0 credit) - This course is one term in length. The student will assist the GHS Technological Leader. Regular attendance is mandatory. Permission from the Tech Leader is required before the student enrolls in the class. This class awards no credit but grades will be given. This course cannot be taken during the same term as peer tutoring or any PE class.  
Prereq. - None; Grade Level – 10, 11, 12

Service Learning (Success Skills through Service Learning) – [On Site] – (1 unit) – This course is a form of experiential learning where students develop knowledge and critical thinking skills while addressing genuine community needs. Through direct service activities, students gain an understanding of human psychology, life skills, community needs and resources, civic responsibility, career options and human diversity. The most effective way of learning these skills is in context, placing learning objectives within a real environment. GHS students will be placed with a teacher at GHS to actively engage in working with students and the teacher in the classroom setting. This course cannot be taken during the same term as office assistant or any PE (only one of these courses can be taken each term). Course may be repeated by **seniors** in fall and spring with the recommendation of the mentor teacher, mentor principal and approved application.  
Prereq. – Application Required; Grade Levels – 11, 12

Service Learning (Success Skills through Service Learning) – [Off Site] – (1 unit) - This course is a form of experiential learning where students develop knowledge and critical thinking skills while addressing genuine community needs. Through direct service activities, students gain an understanding of human psychology, life skills, community needs and resources, civic responsibility, career options and human diversity. The most effective way of learning these skills is in context, placing learning objectives within a real environment. GHS students will be placed with a teacher at elementary or middle school level in the Greeneville City School System to actively engage in working with students and the teacher in a classroom setting. This course cannot be taken during the same term as office assistant or any PE course (only one of these courses can be taken each term). Course may be repeated by **seniors** in fall and spring with the recommendation of the mentor teacher, mentor principal and approved application.  
Prereq. – Application Required; Grade Levels – 11, 12

## **DEPARTMENT OF PHYSICAL EDUCATION**

Physical Education II (Advanced PE) - (1 unit) – This advanced P. E. course is an active participation class. The students will work in a structured and controlled environment. The course focuses on different activities such as team sports, individual sports, and aerobics.  
Prereq. – Lifetime Wellness; Grade Levels - 10, 11, 12

Physical Education II (Weight Lifting) - (1 unit) - This course consists of strength development through weight lifting. Students will work out in a structured and controlled atmosphere designed to improve their physical condition for athletics and lifetime wellness. This course is supplemented with speed and conditioning work through plyometrics and other activities. This course cannot be taken the same term as office assistant or Service Learning (only one of these courses can be taken each term).  
Prereq. – Lifetime Wellness; Grade Levels – 10, 11, 12

Lifetime Wellness – (1 unit) – The class is a required course designed to study current concepts of preventive medicines; investigate the latest criteria findings relevant to major diseases and causes of premature death in the U. S. This relationship of nutrition to optimal health, obesity, Diabetes and weight control. Other topics that will be covered include: nutrition, tobacco, alcohol, Jason Foundation, personal health care, nervous system, cardiovascular system, respiratory system, digestive system, skeletal system, and muscular system.  
Required Course; Grade - 9

## **AIR FORCE JROTC DEPARTMENT**

GHS Air Force Junior Reserve Officer Training Corps (AFJROTC) is a nationally recognized, award winning unit. It is designed to help develop informed citizens for the Aerospace Age. From hand's on experiences, students will learn the significance of aerospace achievements and develop improved attitudes of personal integrity, discipline, self-reliance, and patriotism. AFJROTC is not basic training and is not a recruiting tool for the military. It is a blend of science, social science, technical course work, training in drill and ceremonies, physical fitness and leadership. AFJROTC Cadets learn discipline, responsibility, communication skills and citizenship. The program is cadet run. They learn leadership fundamentals to prepare them to assume leadership responsibilities within the cadet corps, school, and local community. Leadership also includes wearing the uniform, engaging in Air Force customs and courtesies, participating in drill and ceremonies, giving and receiving instructions, and acting as leaders and members of a team and organization. Teamwork and leadership includes leading and organizing community service projects, drill teams, awards dinners, military balls, and field trips to local bases, airports, museums and industries.

### **JROTC Aerospace Ed 100:**

Credits: One elective JROTC credit each term, ½ Personal Finance Credit for the Spring Term, and 1 P.E. credit for the entire year.

Important Note: *The student must comply with the U.S. Air Force grooming standards and uniform requirements. Failure to do so may be cause for course failure. The student should be physically qualified to participate in a program which involves military drill and field trips to various locations around the city and state. Other extracurricular activities are optional. Uniforms and shoes are provided at no cost to the student.*

The curriculum includes Aerospace Science and Global Studies (40%), Leadership Education (40%) and Wellness/Physical Fitness (20%).

- The Aerospace Science portion of the course is a 3-year program with a different course taught each year. The first course covers aviation history focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. The second course is designed to acquaint the student with flight. It is an introductory course that focuses on how airplanes fly, how weather conditions affect flight, flight and the human body, and flight navigation. The third course examines our Earth, the Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned spaceflight. The Global Studies portion provides current news on a focused region of the world.

- Leadership education is an integral part of the instruction. During this first course the student is introduced to the AFJROTC program. The course includes instruction on both the cadet and Air Force organizational structure; uniform wear; customs, courtesies, and other military traditions. The Drill and Ceremonies course is integrated in this course as part of Leadership Education. Cadets are provided fundamental and in-depth instruction in Air Force drill and ceremonies. Personal finance instruction will be included the Spring Term.

- Wellness is an official part of the Air Force Junior ROTC program. It is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender.

Prereq. –None; Grade Levels 9-12

### **JROTC Aerospace Ed 200**

**Credits:** 1 elective JROTC credit each term plus 1 PE credit if completed both terms

*Important Note: The student must comply with the U.S. Air Force grooming standards and uniform requirements. Failure to do so may be cause for course failure. The student should be physically qualified to participate in a program which involves military drill and field trips to various locations around the city and state. Other extracurricular activities are optional. Uniforms and shoes are provided at no cost to the student.*

The curriculum includes Aerospace Science and Global Studies (40%), Leadership Education (40%) and Wellness/Physical Fitness (20%).

- The Aerospace Science portion of the course is a 3-year program with a different course taught each year. The first course covers aviation history focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. The second course is designed to acquaint the student with flight. It is an introductory course that focuses on how airplanes fly, how weather conditions affect flight, flight and the human body, and flight navigation. The third course examines our Earth, the Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned spaceflight. The Global Studies portion provides current news on a focused region of the world.

- The Leadership Education portion of the course is a 2-year program for 2<sup>nd</sup> and 3<sup>rd</sup> year cadets. The first course stresses communications skills and cadet corps activities. The student will receive instruction in how to communicate effectively; how to understand groups and teams; how to prepare for leadership; how to solve conflicts and problems; and how to improve individual personal development. The second course examines career opportunities and emphasizes life skills. Students will be given the opportunity to study career paths after high school; how to apply for college or vocational/technical schools; how to begin the job search; how to prepare a resume; and the importance of good interviewing skills. The Drill and Ceremonies course is integrated in this course as part of Leadership Education. Cadets are provided fundamental and in-depth instruction in Air Force drill and ceremonies.

- Wellness is an official part of the Air Force Junior ROTC program. It is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender and complements the health and wellness portion of this course.

Prereq. –JROTC Aerospace Ed 100; Grades 10-12 (Instructor can waive)

### **JROTC Aerospace Ed 300:**

**Credits:** 1 elective JROTC credit each term plus 1 PE credit if completed both terms

*Important Note: The student must comply with the U.S. Air Force grooming standards and uniform requirements. Failure to do so may be cause for course failure. The student should be physically qualified to participate in a program which involves military drill and field trips to various locations around the city and state. Other extracurricular activities are optional. Uniforms and shoes are provided at no cost to the student.*

The curriculum includes Aerospace Science and Global Studies (40%), Leadership Education (40%) and Wellness/Physical Fitness (20%).

- The Aerospace Science portion of the course is a 3-year program with a different course taught each year. The first course covers aviation history focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. The second course is designed to acquaint the student with flight. It is an introductory course that focuses on how airplanes fly, how weather conditions affect flight, flight and the human body, and flight navigation. The third course examines our Earth, the Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned spaceflight. The Global Studies portion provides current news on a focused region of the world.

- The Leadership Education portion of the course is a 2-year program for 2<sup>nd</sup> and 3<sup>rd</sup> year cadets. The first course stresses communications skills and cadet corps activities. The student will receive instruction in how to communicate effectively; how to understand groups and teams; how to prepare for leadership; how to solve conflicts and problems; and how to improve individual personal development. The second course examines career opportunities and emphasizes life skills. Students will be given the opportunity to study career paths after high school; how to apply for college or vocational/technical schools; how to begin the job search; how to prepare a resume'; and the importance of good interviewing skills. The Drill and Ceremonies course is integrated in this course as part of Leadership Education. Cadets are provided fundamental and in-depth instruction in Air Force drill and ceremonies.
- Wellness is an official part of the Air Force Junior ROTC program. It is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender and complements the health and wellness portion of this course.

Prereq. –JROTC Aerospace Ed 100, 200; Grades 11-12 (Instructor can waive)

### **JROTC Aerospace Ed 400:**

Credits: 1 elective JROTC credit each term plus 1 PE credit if completed both terms

*Important Note: The student must comply with the U.S. Air Force grooming standards and uniform requirements. Failure to do so may be cause for course failure. The student should be physically qualified to participate in a program which involves military drill and field trips to various locations around the city and state. Other extracurricular activities are optional. Uniforms and shoes are provided at no cost to the student.*

The curriculum includes Aerospace Science (40%), Leadership Education (40%) and Wellness/Physical Fitness (20%).

- The aerospace science portion is Management of the Cadet Corps. The cadets manage the entire corps in this course. This hands-on experience affords the cadets the opportunity to put the theories of previous leadership courses into practice. All planning, organizing, coordination, directing, controlling, and decision-making will be done by the cadets. They practice their communication, decision-making, personal-interaction, managerial, and organizational skills.
- The leadership education course contains many leadership topics that will benefit students as well as provide them with some of the necessary skills needed to put into practice what they have learned during their time in AFJROTC. This course, will equip cadets with the qualities needed to serve in leadership positions within the corps. Cadets are given ethical dilemmas, case studies, and role play activities to complete. These activities are based on real life experiences and will allow students the opportunity to practice what they learn by getting involved in discussions and expressing their opinions.
- Wellness is an official part of the Air Force Junior ROTC program. It is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender and complements the health and wellness portion of this course.

Prereq. –JROTC Aerospace Ed 100, 200, 300; Grade 12 (Instructor can waive)

### **JROTC Aerospace Ed Reserves:**

Credits: 1/2 elective JROTC credit each term.

*Important Note: The student must comply with the U.S. Air Force grooming standards and uniform requirements. Failure to do so may be cause for course failure. The student should be physically qualified to participate in a program which involves military drill and field trips to various locations around the city and state. Other extracurricular activities are optional. Uniforms and shoes are provided at no cost to the student.*

The curriculum includes Aerospace Science and Global Studies (40%), Leadership Education (40%) and Wellness/Physical Fitness (20%). The curriculum will be presented on-line.

- The Aerospace Science portion of the course is a 3-year program with a different course taught each year. The first course covers aviation history focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. The second course is designed to acquaint the student with flight. It is an introductory course that focuses on how airplanes fly, how weather conditions affect flight, flight and the human body, and flight navigation. The third course examines our Earth, the Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned spaceflight. The Global Studies portion provides current news on a focused region of the world.
- The Leadership Education portion of the course is a 2-year program for 2<sup>nd</sup> and 3<sup>rd</sup> year cadets. The first course stresses communications skills and cadet corps activities. The student will receive instruction in how to communicate effectively; how to understand groups and teams; how to prepare for leadership; how to solve conflicts and problems; and how to improve individual personal development. The second course examines career opportunities and emphasizes life skills. Students will be given the opportunity to study career paths after high school; how to apply for college or vocational/technical schools; how to begin the job search; how to prepare a resume'; and the importance of good interviewing skills. The Drill and Ceremonies course is integrated in this course as part of Leadership Education. Cadets are provided fundamental and in-depth instruction in Air Force drill and ceremonies.

- Wellness is an official part of the Air Force Junior ROTC program. It is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender and complements the health and wellness portion of this course. A fitness assessment will be given at the beginning and end of the term.

Prereq. – 1 Term JROTC with instructor’s permission required. Grades 9-12.

## **DEPARTMENT OF SCIENCE**

**Biology I** – (1 unit) – This course introduces students to the world of living things. The students explore the following: basic life processes at the molecular, cellular, systemic, organismal, ecological levels of organization within the biosphere; interdependence and interactions within the environment to include relationships, behavior and population dynamics; cultural and historical scientific contributions of men and women; evidence that supports biological change over time; and current and emerging technology applications. Laboratory activities will be performed to introduce or enhance biological principles.

Prereq. –None; Grade Levels - 9

**Honors Biology I** – (1 unit) – This course is recommended for students planning to take AP Biology II. The topics to be studied will be the same as those in Biology I, but they will be covered in greater depth, with an emphasis on critical thinking and analytical reasoning. Topics to be covered include: chemistry of life, cellular biology, genetics, phylogeny, biological diversity, form and function of plants and animals, and taxonomy. All biological kingdoms will be addressed. Laboratory activities will be performed to introduce or enhance biological principles.

Coreq. – Honors Algebra I; Grade Levels - 9.

**Physical Science (10)** – (1 unit) – This course is designed to be taken after Biology I to help prepare students for success in Chemistry I or physics. The class will introduce students to basic chemistry and physics concepts through inquiry lab activities. Physical science is taught using a modeling curriculum that is designed to help students cultivate higher level thinking skills and develop realistic models of scientific concepts based on experimental evidence. Topics will include conservation of mass and energy, physical and chemical changes, atomic structure, writing chemical formulas and naming compounds, motion, and kinetic theory.

Prereq. –Biology I; Grade Levels - 10

**Honors Physical Science** – (1 unit) – The course is designed to provide an in-depth introduction to basic chemistry and physics. Students who are considering taking AP Chemistry or AP Physics should enroll in this course. Topics include conservation of mass and energy, physical and chemical changes, atomic structure, motion, and kinetic theory. Principles and theory are emphasized along with problem solving and practical applications of the learning. Students will engage in laboratory investigations, class discussions and group activities to develop several models that will describe and make predictions about the structure and interactions of matter.

Prereq. – Honors Biology; Algebra A & B; Grade Level - 10

**Honors Pre-AP Biology II**- (1 unit) – This course is designed to be taken by students after the successful completion of both Biology I and Chemistry I. Content will be covered in more depth and greater expectations will be placed on interpretation and analysis of information than in previous Biology classes. The class aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. This class covers material equivalent to one-half of a 1<sup>st</sup> year college biology course for majors. Honors Pre-AP Biology II will cover half of the material essential to a satisfactory score on the AP Biology Exam in May. Students will prepare for the exam through laboratory, class, and individual activities with a goal of scoring a three or above on the exam.

Prereq. –Honors Biology I and Honors Physical Science: Grade Levels- 11, 12

**AP Biology II** - (1 unit) – This course is recommended for students interested in careers in health, medicine or other science related fields. AP Biology II concentrates on cellular biology. Cell chemistry, genetics, photosynthesis and other cell metabolic functions are studied in detail. Anatomy and physiology of plants and animals is also stressed. Laboratory applications are a major part of this course and occasionally may require some extra time for completion. In addition, statistical analysis of data and modeling of concepts will be expected. This course will prepare students for the Advanced Placement exam. Students should expect to spend a significant amount of time in independent study. Students may need to stay after school at times to complete laboratories or exams.

Prereq. – Honors Biology I, Honors Physical Science and Honors Pre-AP Biology II; Grade Levels -11, 12

**Chemistry I** – (1 unit) –This course provides a survey of chemistry, including topics such as atomic and molecular structure, chemical reactions, stoichiometry, acids & bases, nuclear chemistry and energy. Students will engage in laboratory investigations, class discussions and group activities to develop several models that will describe and make predictions about the structure and interactions of matter. After this course, students should have attained a basic understanding of the nature and interactions of matter, and they should have developed laboratory and reasoning skills needed for scientific inquiry.

Prereq. –Physical Science and Biology I: Algebra A & B; Grade Level -11, 12

Honors Chemistry I - (1 unit) – This course provides an in-depth survey of chemistry, including topics such as physical and chemical changes, molecular geometry, current bonding theories, chemical nomenclature, writing chemical formulas and balanced equations, stoichiometry, chemical reactions and energy changes that occur in chemical and physical processes. Chemical principles and theory are emphasized along with problem solving and practical applications of chemistry. Students will engage in laboratory investigations, class discussions and group activities to develop several models that will describe and make predictions about the structure and interactions of matter. After this course, students should have attained a thorough understanding of the nature and interactions of matter as well as developed laboratory skills needed for scientific inquiry. This course covers approximately one-half of the AP Chemistry curriculum and is required for student planning to take AP Chemistry.

Prereq. – Honors Biology I; Honors Physical science; Algebra A & B; Grade Levels - 11, 12

AP Chemistry – (1 unit) – This course is designed to be the equivalent of the second semester college chemistry lecture and laboratory courses. The major topics include kinetics, chemical equilibrium, acid/base chemistry, thermodynamics and electrochemistry. Students in this course should attain a significant depth of understanding of fundamentals of chemistry and a reasonable competence in dealing with practical applications and mathematical treatments of chemical problems. The AP Chemistry course is designed to be taken only after the successful completion of Honors Chemistry I. Students should expect to spend a significant amount of time in independent study and may need to stay after school at times to complete laboratories or exams.

Prereq. – Honors Chemistry I; Grade Levels -11, 12

Environmental Science – (1 unit) – This course provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Environmental science is a multidisciplinary science incorporating chemistry, biology and physics.

Prereq. – None; Grade Levels - 12

Physics – (1 unit) – A laboratory course which will consider the topics of motion, statics, energy, work, and momentum. Physics is fundamental to the study of sciences and math. This course features both conceptual and mathematical based physics.

Prereq. – Physical Science and Algebra A & B are required; Grade Levels – 11, 12.

Honors Physics – (1 unit) – This course is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills.

Prereq.—Physical Science; Algebra A & B; Geometry and concurrently enrolled in Algebra C (Honors Physical Science; All Honors Math recommended); Grade Levels – 11, 12

AP Physics – (1 unit) – This course is a continuation of Honors Physics. See description above.

Prereq. – Physical Science; **Honors Physics**; Algebra A & B; Geometry and concurrently enrolled in Algebra C (Honors Physical Science; All Honors Math recommended); Grade Levels – 11, 12

Anatomy and Physiology – (1 unit) – This course will consist of an in-depth study of the human body. The areas covered will include: medical terminology, basic chemistry, cell and tissue structure, the systems of the human body, and exercise physiology. Laboratory work will be required and will include comparative anatomy dissections.

Prereq. – Biology I and Physical Science; Grade Levels – 11-12

Scientific Research – (1 unit) – This course is a rigorous, research-intensive course which provides students with the opportunity to conduct authentic scientific research on a competitive level. Topics to be taught include: ethics, critical thinking, investigating, analyzing and evaluating data, and communicating results. It is believed that if students can understand the scientific processes and practice in interpreting data that science reasoning scores on the ACT will be improved.

Prereq. – Biology I and Chemistry I or Physics; Grade Levels 11, 12

## **DEPARTMENT OF SOCIAL STUDIES**

AP Human Geography – (1 unit) – This course is designed to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. This is a writing intensive course.

Prereq. – Must be enrolled in another Honors English during same academic year; Grade Levels – 9, 10, 11, 12

World History and Geography - (1 unit) – Students will study modern world history from the Enlightenment Revolutions of the eighteenth century to the present day. Students will explore geographic influences on history, with attention given to political boundaries that developed with the evolution of nations from 1750 to the present as well as the human geographic issues.

Prereq. - None; Grade Levels – 9, 10, 11, 12

United States History and Geography - (1 unit) - This survey course covers the period from the Industrial Revolution to the present and geography will be emphasized as preparation for the end-of-course test as mandated by the State of Tennessee.

Prereq. - None; Grade Levels - 11, 12

AP United States History - (1 unit) - A year-long survey course spanning the period from the American Revolution to the present. Students are prepared to take the advanced placement exam in United States History. Students are required to complete historical outlines, research projects, and supplementary readings. Students must also be enrolled in AP US Government & Politics.  
Coreq. –AP Government & Politics; Grade Levels - 11, 12

AP European History - (1 unit) – This course is a continuation of the study of European civilization from the Renaissance to the present day is studied. A substantial amount of reading is required to develop the basic techniques of the historian and scholar. Students are provided with the opportunity to pursue social, cultural, scientific, intellectual, and political developments in Western Civilization.  
Prereq. – Honors Pre-AP European History; Grade Levels – 10, 11, 12

Honors Pre-AP European History – (1 unit) – This course is the first half of the study of European civilization from the Renaissance to the present day is studied. A substantial amount of reading is required to develop the basic techniques of the historian and scholar. Students are provided with the opportunity to pursue social, cultural, scientific, intellectual, and political developments in Western Civilization.  
Prereq. - None – Grade Levels – 10, 11, 12

Economics - (1/2 unit) – In this course, students will study economics, learn about the American free enterprise system and explores the role of citizens, producers, and consumers. This course is a requirement for graduation. It will be paired with Personal Finance.  
Prereq. - None; Grade Levels - 12

Personal Finance – (1/2 unit) – This course is designed to inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. It will be paired with Economics.  
Prereq. – None; Grade Levels – 12

U.S. Government - (1 unit) - This course is a survey of the functions of government, primarily at the National Level, and how the three branches of government interact and affect society. This course is required for graduation.  
Prereq. - None; Grade Levels - 12

AP US Government and Politics – (1 unit) – This year-long course involves the study of democratic ideas, balance of powers, and tension between the practical and ideal in national policymaking. Students will analyze and discuss the importance of various constitutional principles, rights and procedures, institutions, and political processes that impact us as citizens. Students must also be enrolled in AP US History.  
Coreq. – AP US History; Grade Levels – 11, 12

Psychology - (1 unit) - A survey course in general psychology that includes units on learning processes, personality theories, behavior patterns, symptoms, causes and treatments of emotional disorders, achieving a wholesome personality, and various problems of adjustment as they affect young people today.  
Prereq. - None; Grade Levels - 11, 12

AP Psychology – (1 unit) – The purpose of the AP course in psychology is to introduce the systemic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice.  
Prereq. – None; Grade Levels – 9, 10, 11, 12

## **DEPARTMENT OF SPECIAL EDUCATION**

Special education is a service provided to eligible students who have an identified need, as determined by state and federal guidelines, for specially designed instruction in one of the following areas: reading, math, study/organization, adaptive skills, social/emotional skills, motor coordination, communication, and transition. The faculty and staff of the special education department are dedicated to providing instruction based on Individual Education Plans (IEPs). Teachers maintain high expectations for all students, anticipating they are preparing for rigorous, individualized post-secondary goals. Instruction is aligned with individual student goals and addresses strategies for learning. Students will learn to articulate their special learning needs and to self-advocate in their general education classes. Each student and his/her parent are members of the student's IEP team, which also includes a special education teacher/case manager, general education teachers, related service providers, and an administrator. The IEP team determines the courses that are appropriate for the student to meet the needs/goals identified in his/her IEP.

- **Life Skills Program**

The Life Skills program is designed to provide instructional support to students with a significant intellectual disability. The instructional emphasis of the program is on the academic content areas with an integration of activities of daily living that are needed to support functioning in the home, school, community, and work. A Special Education Diploma, an Occupational Diploma, or an Alternate Academic Diploma can be earned in this program.



- TN Ready/Consultative Program

The curriculum in this program mirrors the general education curriculum disciplines of English, math, science, and social studies and includes electives. Students on this path receive instruction with accommodations or modifications outlined in their IEPs. Students in this program are counseled and encouraged to enroll in as many challenging classes, as deemed appropriate and as data supports, to prepare for post-secondary goals. A Regular Diploma can be earned in this program.

## GHS CTE Pathways 2018-19

### STEM: Technology

Principles of Engineering and Technology 5924	AP Computer Science Principles 3634	Robotics and Automated Systems 6143 Or AP Physics 3238
EPSO and Certification Solid Works	EPSO and Certification MTA: HTML 5 App Development	EPSO and Certification MTA: Python

### Marketing: Marketing and Management

Intro to Business and Marketing 5905	Marketing and Management I (School Store) 5931	Marketing and Management II (School Store second level) 5932
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### Finance: Banking and Finance

Intro to Business and Marketing 5905	Accounting I 5910	Banking and Finance 5899
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### Finance: Accounting

Intro to Business and Marketing 5905	Accounting I 5910	Accounting II 5911 Or Statistics 3136 Or Dual Enrollment Accounting 4090 and/or Financial Accounting CLEP
		EPSO and Credit Dual Credit Statistics

### Human Services: Human and Social Sciences

Introduction to Human Studies 6137	Lifespan Development 6013	Family Studies 6136 Or Psychology 3433
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		Or Sociology 3432
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### **Human Services: Dietetics and Nutrition**

Introduction to Human Studies 6137	Nutrition Across the Lifespan 6005	Nutrition Science and Diet Therapy 6007 Or Psychology 3433 Or Sociology 3432
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### **Arts, Audio/Visual Technology, and Communications**

A/V Production I 6049	A/V Production II 6050	A/V Production III 6083 Or AP English Language and Composition 3013
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## **GREENE TECHNOLOGY CENTER**

## **DEPARTMENT OF CAREER AND TECHNICAL EDUCATION**

### **PROGRAM OF STUDY – Information Technology**

#### **Computer Science Focus**

Computer Science Foundations  
Coding I/Coding II  
Computer Systems, Networking

**Computer Science Foundations:** (Computer Science): Students use current technology, such as iPads and virtual equipment, while learning to build, design, configure, troubleshoot, and repair computer hardware, software, and operating systems. Advanced students learn how to design and create video games using various computer programs and languages. They may also choose to learn basic networking skills and advanced computer troubleshooting techniques. Students are prepared to take the A+ certification exam. PC Pro Certification is included in curriculum at no cost to students. Articulation credit is available through TN College of Applied Technology in Morristown, Walters State Community College, and Northeast State Community College.  
Grade Levels – 9, 10, 11, 12

### **PROGRAM OF STUDY – HEALTH SCIENCE EDUCATION**

#### **Health Science Focus**

Beginning Level Courses:  
Health Science Education  
Medical Therapeutics

Advanced Level Courses: (fall term)  
Exercise Science/ Diagnostic Medicine

Nursing – C.N.A.\*/Health Information Technology

Advanced Level Courses: (spring term)  
EMS/Clinical Internship\*

Anatomy & Physiology/Medical Terminology

\*Application required

**Health Science Education:** Students gain knowledge of medical terminology, structure and function of the human body, and medical therapeutics at the beginning level. Advanced students may choose any of the paired courses listed above. Students who successfully complete the C.N.A. program and meet specified criteria are eligible for immediate admission and a \$500 scholarship to the LPN program through the TN College of Applied Technology in Morristown. (Classes available in Morristown and Greeneville). Students who successfully complete the Emergency Medical Responder course are eligible to take the WSCC final exam. Upon passing the exam, the student will be awarded 4 credit hours as an elective. Those who pass the exam, are also permitted to enter directly into the EMT program upon application. Students who take Clinical Internship will be placed in an area of interest at a medical facility or veterinarian clinic.

## **PROGRAM OF STUDY – ENGINEERING and STEM**

### **Engineering Focus**

Introduction to Engineering Design  
Principles of Engineering  
Computer Integrated Manufacturing  
Digital Electronics  
Robotics & Automated Systems

### **Robotics**

Robotics I  
Robotics II  
Robotics III

**Pre-Engineering:** Students are engaged in project based, hands-on classes that teach the key elements and skills of engineering and technology-based careers. Learn the design skills used by companies such as Apple, Orange County Choppers (OCC), and John Deere.  
Grade Levels – 9, 10, 11, 12

**Robotics:** In this course students are engaged in project-based classes that teach the key elements of robotic design, automation, and control. Students gain experience building and programming various machines to perform different tasks used in business and industry.

## **PROGRAM OF STUDY – Manufacturing**

### **Industrial Electricity Focus**

Principles of Manufacturing  
Introduction to Electromechanical  
Advanced Electromechanical Tech  
Principles of Manufacturing (co-op)

### **Machining Focus**

Principles of Manufacturing  
Principles of Machining I  
Principles of Machining II  
Manufacturing Practicum  
Principles of Manufacturing (co-op)

### **Welding Focus**

Principles of Manufacturing  
Welding I  
Welding II  
Advanced Welding Application I & II  
Principles of Manufacturing (co-op)

**Industrial Electricity:** Students learn how to install and repair residential and commercial electrical systems. Prepares students for Limited Licensed Electrician (ELL) and Construction Electrical (CE).  
Grade Levels – 9, 10, 11, 12.

**Machining:** Students learn the setup and operation of machine tools such as lathes, grinding machinery, and mills. Other skills included are blueprint reading, math, and precision measuring. Students set up, operate, program, and produce projects on CNC (Computer Numerical Control) equipment and learn to utilize software employed by today's industries, such as Mastercam and Autodesk Inventor, to complete projects. Students learn skills seen and used on today's hit TV shows like American Choppers and Sons of Guns. Prepares students for NIMS certification (metal working). Dual Enrollment opportunities are available to senior advanced students through TN College of Applied Technology in Morristown (classes available in Morristown and Greeneville). Articulation is available through Northeast State Community College.  
Grade Levels – 9, 10, 11, 12

**Welding:** Students obtain training to become a certified welder in shielded metal arc welding (STICK), gas metal arc (MIG), flux cored arc and gas tungsten arc (TIG) welding. Also included are welding blueprint reading, oxy-fuel cutting and fabrication. Dual enrollment opportunities are available to senior advanced students through TN College of Applied Technology in Morristown (classes available in Morristown and Greeneville). Prepares students for NCCER certification (construction).  
Grade Levels – 9, 10, 11, 12

## **PROGRAM OF STUDY – LAW, PUBLIC, SAFETY, CORRECTIONS & SECURITY**

### **Criminal Justice Focus**

Criminal Justice I  
Criminal Justice II  
Criminal Justice III/Forensics III

**Criminal Justice:** Students learn about crime scene investigation (CSI), case law, and report writing in the criminal justice field. Activities include fingerprinting and using a driving simulator.

Grade Levels – 9, 10, 11, 12

## **PROGRAM OF STUDY – TRANSPORTATION**

### **Automotive Technology Focus**

Maintenance & Light Repair I  
Maintenance & Light Repair II  
Maintenance & Light Repair III  
Maintenance & Light Repair IV  
Automotive Repair (co-op)

### **Collision Repair Technology Focus**

Introduction to Collision Repair  
Collision Repair Non-structural (Fall term)  
Collision Repair Painting & Refinishing (spring term)  
Collision Repair (co-op)

**Automotive Technology:** Students learn to service brakes, suspension, steering, electrical systems and computerized engine controls, fuel systems, exhaust systems, and front-end alignment. Students have the opportunity to take exams toward Automotive Service Excellence (ASE) certification.

Grade Levels – 9, 10, 11, 12

**Collision Repair Technology:** Students learn how to repair and refurbish automobiles. Other skills include welding, sanding, painting and masking.

Grade Levels – 9, 10, 11, 12

## **PROGRAM OF STUDY – HUMAN SERVICES**

### **Cosmetology Focus**

Principles of Cosmetology  
Design Principles of Cosmetology  
Chemistry of Cosmetology I, II, III, IV, V

**Cosmetology:** Students learn the basic skills needed to be successful in the beauty industry such as hair styling, coloring, cutting, manicures, and pedicures. Students can earn up to 1200 hours of the 1500 required for a cosmetology license in the state of TN.

Grade Levels – 9, 10, 11, 12

## **PROGRAM OF STUDY – Hospitality and Tourism**

### **Culinary Arts**

Culinary Arts I  
Culinary Arts II

**Culinary Arts:** Culinary Arts equips students with the foundational knowledge and skills to pursue careers in the culinary field as a personal chef, caterer, executive chef, and food and beverage manager. Upon completion of this course, proficient students will have knowledge in the components of commercial kitchen safety and sanitation, history of the foodservice industry, careers, nutrition, recipe basics, proper kitchen tools and equipment, and kitchen staples. Throughout the course, students will gain experience in commercial food production and service operations, while preparing for further training at the postsecondary level.

**All programs offered at the Greene Technology Center provide students with the opportunity to earn postsecondary credit.**

## **DUAL ENROLLMENT**

Greeneville High School offers dual enrollment opportunities with Walter State Community College, Tusculum College, and the University of Tennessee Martin. Students who enroll in these courses have the opportunity to get a “head start” on their college education without duplicating course work. This opportunity provides qualified students with intellectually demanding course work as they mature socially and develop leadership potential as well as providing the student tremendous savings of time and money. College credits earned may transfer to two- and four-year colleges and universities. Students must have a 3.0 cumulative GPA; **OR** an ACT composite score of 21 in order to enroll in Dual enrollment courses. Some courses may have additional ACT requirements. Students must obtain an endorsement from the high school counselor, his/her parent/guardian, and complete the college enrollment process.

**Tennessee residents admitted into a dual enrollment program will qualify for the Tennessee Dual Enrollment Grant. The award amounts are as follows:**

- Up to \$500 – Course #1
- Up to \$500 – Course #2
- Up to \$200 – Course #3
- No award – Course #4
- Up to \$100 per credit hour – Course #5
- Up to \$100 per credit hour – Course #6
- Up to \$100 per credit hour – Course #7
- Up to \$100 per credit hour – Course #8

Books and supplies are extra. The student must maintain a 2.75 cumulative GPA to continue the Dual Enrollment Grant for subsequent terms.

*Additional scholarships or grants may be available depending on the institution, available funds, and student financial need. Students should let their high school counselor know if they are interested in enrolling in a Dual Enrollment course or may need help with additional funding options during advising when they are registering for courses for the upcoming school year.*

### **Walter State Community College Offerings include:**

- INFS 1010: Computer Applications
- EDUC 1030: College Experience
- ENGL 1010: Composition I
- ENGL 1020 Composition II
- ENGL 2420: Western World Literature I
- SPCH 1010: Speech and Communication
- HIST 1010: Survey of World Civilization I
- HIST1120: Survey of World Civilization I
- SOCI 1010: Sociology
- MATH 1610: Finite Mathematics
- MATH 1830: Calculus A
- MATH 1530: Probability & Statistics
- PSYC 1310: Psychology

### **Tusculum College Course Offerings include ONLINE ONLY:**

- ARTS 208: Baroque through Modern Art History
- SOCI 101: Principles of Social Institutions
- ENGL 110: Composition and Rhetoric I
- ENGL 111: Composition and Rhetoric II
- MATH 122: Quantitative Applications
- PSYC 101: Essentials of Psychology
- MATH 140: Elementary Statistics
- POLS 110: American Government
- CISC 100: Computer as a Tool
- NSCI 105: Physical Science
- ENGL 225: World Literature
- SPCH 101. Public Speaking
- RELG 201: World Religions
- HIST 201: U.S. Survey I
- HIST 202: U.S. Survey I

### **University of Tennessee Martin ONLINE ONLY:**

- AGECE 110: Intro to Agriculture Business
- AGECE 250: Intro to Agriculture Sales
- AGRI 240: History of American Agriculture
- ANSC 110: Intro to Animal Science
- ANSC 210: Intro to Horse Science
- ANSC 230: Exotic and Companion Animal Mgt
- ANSC 260: Behavior of Farm and Companion Animals
- ANSC 270: Animal Welfare and Ethics
- NRM 100: Intro to Natural Resource Management
- PLSC 110: Intro to Plant and Soil Science