

**Volunteer High School  
Program of Studies  
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## PROGRAM OF STUDIES

Volunteer High School is a four-year public secondary school and operates within the framework consistent with the policies of the Hawkins County Board of Education and the Rules, Regulations, and Minimum Standards of the Tennessee State Board of Education. It is within this organizational structure that the following statements are made concerning student registration, four-year high school program, graduation requirements and curricula.

### I. Instructions for Registration

An official Student Registration Form is separate from this booklet and will be completed later. During a specified period prior to the actual registration process, counselors will meet with students in grades 8, 9, 10, and 11 to go over and discuss, in detail, all material included in this booklet. The student will be given time to ask questions. At the close of the discussion, the student is encouraged to take the booklet home to discuss the course offerings with his/her parents. He/she may also need to talk to teachers and counselors before making any decisions concerning courses. The four-year Program of Studies Forum, found in the back of this booklet, should be used as a guide in preparation for completing the four-year plan which will be used as a check against (1) plans for any particular year, (2) fulfillment of requirements for graduation, and (3) the educational goals of the individual student. Each year's courses should be listed and credits counted.

### II. Requirements for Graduation

Prior to the 9th grade all students will develop a four-year plan of focused study. Parents, students and counselors will be involved in the development of the plan. The plan will be revised annually. The following 28 units shall be required for graduation. Students shall complete the Core Curriculum plus either the College Preparation Curriculum or the Technical Preparation Curriculum.

CORE CURRICULUM	UNITS
English.....	4
Mathematics**.....	3
Science**.....	3
Social Studies**.....	4
Wellness.....	1
Physical Education.....	1
<u>TOTAL</u>	<u>16</u>

\*\*Students in the Tech-Prep Path shall be required to achieve, by the time they graduate the following: **Algebra I or Math for Technology II and Geometry or Technical Geometry.**

\*\*Students in the University Path shall be required to achieve, by the time they graduate, the following: **Algebra I, Geometry, and Algebra II.**

\*\*The Social Studies Curriculum shall include **United States History, World History/World Geography, Economics, and Government.**

\*\*The Science Curriculum shall include Biology I and a physical science.

<u>COLLEGE PREPARATION CURRICULUM</u>	<u>UNITS</u>
Foreign Language.....	2
Fine Arts.....	1
Electives.....	9
<u>TOTAL</u>	<u>12</u>

<u>TECHNICAL PREPARATION CURRICULUM</u>	<u>UNITS</u>
Technical Clusters.....	4
Electives.....	8
<b>TOTAL</b>	<b>12</b>

Students may graduate with Honors if they complete the Core Curriculum and either the College Prep or the Tech Prep Curriculum. For an Honors Diploma the overall grade point average shall be 3.0 on a 4.0 scale. All students will be required to pass state Gateway Exams.

### III. Types of Diplomas/Certificates

**A.** The ***regular diploma*** will be awarded to students who (1) earn the specified 28 units of credit or satisfactorily complete an individualized educational program, (2) make passing scores on all Gateway exams, and (3) have satisfactory records of attendance and conduct.

**B.** The ***high school certificate*** will be awarded to students who have earned the specified 28 units of credit and who have satisfactory records of attendance and conduct, but who have not met Gateway Exam standards.

**C.** The ***special education diploma*** will be awarded to students who have satisfactorily completed an individualized education program, and who have satisfactory records of attendance and conduct, but who have not met Gateway Exam standards.

**D.** The ***honors diploma*** may be offered by local school systems to students who (1) earn the specified 28 units of credit with at least a 3.0 grade point average on a 4.0 scale, (2) make passing scores on all Gateway Exams, and (3) have satisfactory records of attendance and conduct.

### IV. Gateway Exams

Students must pass a Gateway (exit) exam in Algebra I, Biology, and English II in order to receive a high school diploma.

### V. College Entrance Requirements

Admission requirements for different colleges and universities can be found in college catalogs and supplemental material in the guidance office. Students are encouraged to see their counselor for this information. The following is provided to illustrate admission policies of the schools under the State Board of Regents in Tennessee.

<u>Subject</u>	<u>Required Units</u>
English.....	4
Visual and/or performing Arts including A survey course or participation in one or more of the arts (music, dance, theater, visual arts).....	1
Algebra I and II.....	2
Geometry or higher level math.....	1

Science.....	3
World Geography and/or World History.....	1
United States History.....	1
Economics.....	½
United States Government.....	½
A single Foreign Language.....	2

Other schools may have different requirements.

## VI. AIM Scholars Program

AIM Scholars is a program developed for application by business and education coalitions. This program is designed to encourage students to complete high school courses that provide a fundamentally sound academic education. An AIM scholar must have at least a "C" in all classes, have an absentee rate no greater than 5%, and cannot have been assigned to out-of-school suspension.

### AIM SCHOLARS CURRICULUM

<u>SUBJECT AREA</u>	<u>SPECIFICATIONS</u>	<u>CREDITS</u>
<b>English</b>	Regular or above	4
<b>Mathematics</b>	Algebra I, II, Geometry and one additional higher math.	4
<b>Science</b>	At least two of the three following subjects: Biology I, Chemistry I, Physics I, or Principles of Technology.	3
<b>Social Studies</b>	History/Government/Geography/Economics	4
<b>Foreign Language</b>	2 credits of same language (2 years in the same technical track will foreign language. substitute for the)	2
<b>Computer related course</b>		1

An AIM Scholars expectation includes a minimum of 20 hours of community service.

## VII. Grades: Grading and Quality-point System

Percent	Grade	Quality Points
93-100	A	4
85- 92	B	3
75- 84	C	2
70- 74	D	1
0- 69	F	0

**VIII. Courses Changed and/or Dropped**

- A. Course changes within sections of the same course will be made only with the teacher's recommendation.
- B. Courses added and dropped after the end of the first week must have the approval of the teacher, principal, and guidance counselor.

**IX. Correspondence Courses: A maximum of two**

Correspondence courses taken from the University of Tennessee Correspondence School or a similar acceptable school will be accepted toward the required units of credit. Credit for work done by correspondence may be allowed:

- (1) For courses not regularly taught in school, or
- (2) For courses which the school schedule precludes the student from taking.

**X. Student Schedule Load**

All students must be enrolled in at least four (4) courses each term.

**XI. Summer School**

Summer School is regulated by the Rules, Regulations, and Minimum Standards of the Tennessee State Department of Education. Course offerings will be determined by the requests of students.

**XII. Class Assignments**

Students are assigned to grade level according to the number of credits previously earned.

Grade	Units Required
10	6
11	13
12	20

**XIII. Individual Course Descriptions**

**ART**

**Course: Visual Art I**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Fee: Will be charged

Basic drawing elements and principles of design and composition will be taught each semester with an emphasis on perspective and design skills. Students are taught primary and secondary fundamentals of color. An introduction to drawing methods using pencils, and painting methods using tempera will be used. Students will be asked to provide some personal art supplies such as watercolors and brushes.

**Course: Visual Art II**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Prerequisite: Visual Art I

Fee: Will be charged

Students will learn basic elements of color and design, and concentrate on personal creativity. Various painting methods will be studied, with an emphasis on realistic detail. Students will be asked to provide some personal art supplies in addition to fees.

**Course: Visual Art III**

Grade Level: 10, 11, 12

Credit: 1 unit

Prerequisite: Visual Art I, Visual Art II and teacher recommendation

Fee: Will be charged

Visual Art III will consist of studio sessions with emphasis on technique and the development of personal drawing style. Major art movements will be studied and emulated in class assignments. Students will be asked to provide some personal art supplies in addition to fees.

**Course: Visual Art IV**

Grade Level: 11, 12

Credit: 1 unit

Prerequisite: Visual Art I, II, III/teacher recommendation

Fee: Will be charged

Course will consist of studio sessions designed to develop the individual creativity of each student. Various media and three-dimensional art will be explored. Students will be asked to provide personal art supplies in addition to fees.

**ENGLISH**

THE FIVE CREDITS IN ENGLISH REQUIRED FOR GRADUATION MUST INCLUDE THE FOLLOWING: ENGLISH I LIT, ENGLISH I GRAMMAR, ENGLISH II, ENGLISH III, ENGLISH IV. A FEE WILL BE CHARGED. ALL NINTH GRADE

STUDENTS WILL BE REQUIRED TO PASS BOTH LITERATURE AND GRAMMAR CLASSES. THE GATEWAY ENGLISH EXAM IS REQUIRED FOR GRADUATION.

Course: **English 9-Literature**

Grade Level: 9

Credit: 1 unit

Fee: Will be charged

This course is designed to meet the students' need in communication areas of listening, speaking, reading, and writing. In literature, reading concepts are emphasized along with author's history and literary form.

Course: **English 9-Grammar**

Grade Level: 9

Credit: 1 unit

Fee: Will be charged

The study of grammar emphasizes thinking, speaking, and writing skills. Grammar topics include a review of parts of speech, grammar usage, and sentence structure.

Course: **Honor's English 9-Literature**

Grade Level: 9

Credit: 1 unit

Fee: Will be charged

Literature in this course will be based on proficiency in critical thinking, listening, speaking, reading, and writing. The following types of literature may be included: the short story, the novel, drama (Romeo and Juliet), poetry, nonfiction, and the epic The Odyssey.

Course: **Honor's English 9-Grammar**

Grade Level: 9

Credit: 1 unit

Fee: Will be charged

The study of grammar emphasizes thinking, speaking, and writing skills. Grammar topics include a review of parts of speech, grammar usage, sentence structure, and essay writing.

Course: **English 10**

Grade Level: 10

Credit: 1 unit

Prerequisite: English I

Fee: Will be charged

Students will study literary units on short stories, nonfiction and drama. The drama is expanded to include a study of Shakespeare and JULIUS CAESAR. The course emphasis will include a review of parts of speech, grammar usage, and sentence errors. Sentence structure will emphasize coordination and subordination with the use of verbals. One novel from an approved list is required. The Gateway English exam will be required at the completion of this course.

Course: **Honor's English 11**

Grade Level: 10

Credit: 1 unit

Prerequisite: English I

Fee: Will be charged

Literature study may include short story, poetry, nonfiction, and drama. Included will be JULIUS CAESAR with emphasis on the author and the historical period in which he lived. Grammar will be geared toward composition, primarily paragraph development. Composition will also be a part of the literature study. A prepared list of novels will be required for each grading period. The Gateway English exam will be required at the completion of this course.

Course: **English 11**

Grade Level: 11

Credit: 1 unit

Fee: Will be charged

This course will combine practical skills in writing and vocabulary with the reading of American literature. The chronological study of selected American writers will be geared toward applying these skills in the student's present and future lives. An approved list of novels may be required. The 11<sup>th</sup> grade writing assessment will be given in February.

Course: **Honor's English 11**

Grade Level: 11

Credit: 1 unit

Fee: Will be charged

This course will stress the fundamentals of the writing process in conjunction with the study and critical analysis of selected writers in American literature. Development and structure of the paragraph will be emphasized and will lead toward the understanding of and competency in writing clearly organized and well-developed five paragraph essays. Also included will be an in-depth study of how various literary devices contribute to the overall themes found in literature. Application to the modern world will be highlighted. This course is highly recommended for those students who may be planning to go to college or to a technical school. The 11<sup>th</sup> grade writing assessment will be given in February.

Course: **English 12**

Grade Level: 12

Credit: 1 unit

Fee: Will be charged

This course will be a combination of composition and literature. The literary works will be presented by topics and will emphasize English history and selected British authors. Composition will focus on the comprehension and analysis of each literary selection. Also, there is a practical writing for employment, which may include college application/employment application, resume writing, and other technical writing.

Course: **English 12-Writing**

Grade Level: 12

Credit: 1 unit

Fee: Will be charged

This course will concentrate on proficiency in written communication. The writing process will be emphasized as students move from paragraph development to expository writing and especially the five-paragraph persuasive essay.

Course: **Honor's English 12**

Grade Level: 12

Credit: 1 unit

Fee: Will be charged

This course will be a combination of composition and literature. The literary works will be presented by topics and will emphasize English history and selected British authors. In addition to the comprehension and analysis of literary selections, composition will stress literary essays and research skills. This course is highly recommended for the student who is planning to further the students' education by going to a college or a technical school.

Course: **English 12 (Dual Credit English)**

Grade Level: 12

Credit: 1 unit for high school; 6 hours of college credit

Fee: Walters State Community College tuition

This course is designed for college bound students who wish to get senior English credit and (at the same time) get 6 hours of college English Composition credit through Walters State Community College. These hours can be transferred to most public colleges and universities in Tennessee. Be sure to contact the college/university to verify transfer of credit. Students will pay the appropriate college tuition.

Course: **Advanced Placement English 12 - Literature and Composition**

Grade Level: 12

Credit: 2 units

Prerequisite: Teacher recommendation required

Fee: Students in AP classes will be required to take the AP Exam in the Spring.

The AP class emphasizes the development of skills in the critical reading of literature and in the writing about and discussion of literature and its related ideas. The course is recommended for those highly motivated students who are not only capable of doing college level work in English while in high school but also are willing to devote the energy and time necessary to complete such a course. The AP student will be given the opportunity to earn college credit while still in high school through the Advanced Placement exam given each May. Requirements: One of the following must be met - (1) At least 22 on the English portion of the ACT. (2) Certified gifted by a licensed psychologist. (3) Have a Grade Point Average of 3.0 on a 4.0 scale.

Course: **Drama as Literature**

Grade Level: 11 or 12

Credit: 1 unit (Fine Arts Credit)

Prerequisite: Teacher approval

Fee: To be Determined

This after-school class is designed to increase the students' awareness of and appreciation of drama and the theater. The class meets once a week to study the elements of drama and the history of the theater. Selected plays will be read or viewed. There is concentration on Greek and Elizabethan Theater and Modern plays. We will attend approximately ten plays at local theaters. If there is enough interest, we will take a Broadway trip to New York City in the spring.

Course: **Journalism**

Grade Level: 10, 11 and 12

Credit: 2 units

Prerequisite: Application and faculty approval

Consists of planning the yearbook for Volunteer High School. This involves copy preparation, layout, photography, computer skills, and special effects. Other activities include summer workshops, typography, and graphics development for the yearbook. Must enroll first semester.

Course: **Mythology**

Grade Level: 11, 12

Credit: 1 unit

Fee: Will be charged

This course is the study of the religious beliefs, legends, and heroic deeds in the myths of the ancient civilizations. Emphasis will be given on Norse, Celtic, and Egyptian mythology as time permits. Modern allusions will be discussed. *Class only offered yearly pending state board approval.*

Course: **Speech**

Grade Level: 10 (if finished sophomore English), 11, 12

Credit: 1 unit

Fee: Will be charged

This course is designed to develop and improve the speaking ability of students by providing a wide variety of speaking experiences. Students will study diction and enunciation, development and organization of speeches, and delivery techniques. The course will emphasize research skills necessary to debating. Students will learn to write and speak persuasively; in fact, debates will be an important class activity. Even though public speaking will be stressed, it is hoped that students will improve in all areas of communication, from sharing a story with a friend or in a small group to interviewing for a scholarship or a job.

## FOREIGN LANGUAGE

IT IS RECOMMENDED THAT A STUDENT HAVE A "C" AVERAGE IN ENGLISH BEFORE TAKING A FOREIGN LANGUAGE.

Course: **Spanish I**

Grade Level: 10, 11, 12

Credit: 1 unit

Fee: Will be charged

This course establishes a basis for maintaining simple conversation in areas of immediate need and on very familiar topics, and the ability to pronounce the language well enough to be intelligible to native speakers. This requires the ability to understand, with some repetition, simple questions and statements. The student should be able to read and understand the information presented in a simple paragraph. The student will learn to write a short paragraph on a familiar topic. The student will be able to deal with everyday situations in the culture such as greetings, leave-takings, buying food, and asking directions. This course includes geographical and cultural orientation of Hispanic countries.

Course: **Spanish II**

Grade Level: 10, 11, 12

Credit: 1 unit

Fee: Will be charged

Prerequisite: Spanish I

This course enhances simple conversational skills in areas of need and on familiar topics. The student works toward perfecting pronunciation of the language enough to be understood by native speakers. The student should be able to understand simple questions and statements and be able to understand, with some repetition, more complex questions and statements. The student will be able to read and understand detailed passage of intermediate level reading material. The student will learn a composition on a familiar topic. The student will be able to use correct Spanish idioms in everyday situations such as greetings, leave takings, buying food, and asking directions. This course includes more in-depth study of geography and culture of Hispanic countries.

Course: **Spanish III**

Grade Level: 11, 12

Credit: 1 unit

Prerequisite: Spanish I and II with a "C" average

Involves the skills learned in Spanish I and II - to read Spanish literature and communicate thoughts about what has been read. Emphasis will be placed on vocabulary, sentence structure and oral communication.

Course: **Spanish IV**

Grade Level: 11, 12

Credit: 1 unit

Fee: Will be charged

Prerequisite: Spanish I, II, III with a "C" average

This course will be furtherance of the skills mastered in Spanish III with a more intensive emphasis on higher conversation. Some more advanced grammar skills will be presented, but a major focus will be on the comprehension and analyzation of Spanish literature.

Course: **French I**

Grade Level: 10, 11, 12

Credit: 1 unit

Fee: Will be charged

This course establishes a basis for maintaining simple conversation in areas of immediate need and on very familiar topics, and the ability to pronounce the language well enough to be intelligible to native speakers. This requires an ability to understand, with some repetition, simple questions and statements. The student should be able to read and understand the information presented in a simple paragraph. The student will learn to write a short paragraph on a familiar topic. The student will be able to deal with everyday situations in the culture such as greetings, leave-takings, buying food, and asking directions. This course includes geographical and cultural orientation of Francophone countries.

Course: **French II**

Grade Level: 10, 11, 12

Credit: 1 unit

Prerequisite: French I

Fee: Will be charged

This course enhances simple conversational skills in areas of need and on familiar topics. The student works toward perfecting pronunciation of the language enough to be understood by native speakers. The student should be able to understand, with some repetition, more complex questions and statements. The student will learn to write a composition on a familiar topic. The student will be able to use correct French idioms in everyday situations such as greeting, leave takings, buying food, and asking directions. This course includes more in-depth study of geography and culture of Francophone countries.

Course: **French III**

Grade Level: 11, 12

Credit: 1 unit

Prerequisite: French I and II with a "C" average

Involves using the skills learned in French I and II to read French literature and communicate thoughts about what has been read. Emphasis will be placed on vocabulary, sentence structure and oral communication.

Course: **French IV**

Grade Level: 11, 12

Credit: 1 unit

Prerequisite: French I, II, III with a "C" average

This course will be a furtherance of the skills mastered in French III with a more intensive emphasis on higher conversation. Some more advanced grammar skills will be presented, but a major focus will be on the comprehension and analyzation of French literature.

## **MATHEMATICS**

THREE UNITS OF MATHEMATICS, INCLUDING 1 UNIT OF ALGEBRA 1 AND 1 UNIT OF GEOMETRY/ALGEBRA 2, ARE REQUIRED FOR GRADUATION. A STUDENT CANNOT TAKE A COURSE ABOVE THE LEVEL THEY ARE CURRENTLY ENROLLED IF HE/SHE DOES NOT PASS THAT COURSE. THE GATEWAY EXAM WILL BE GIVEN AT THE END OF ALGEBRA 1B.

### **Course: Foundations 1**

Grade Level: 9,10

Credit: 1 unit

Prerequisite: None

Fee: Will be charged

This course is designed to serve both as a refresher course for arithmetic skills and as an introduction to the Algebra principles taught in Foundations II. Review of decimals, fractions, and integers will be covered. Emphasis will be placed on the objectives needed in order to perform well in Foundations II.

### **Course: Foundations 2**

Grade Level: 9,10,11

Credit: 1 unit

Prerequisite: None

Fee: Will be charged

This course is designed as a prerequisite to Algebra 1. The course will cover topics necessary for completion of Algebra 1. Number theory, equations, inequalities, and the language of Algebra will be introduced. Completion of this course is strongly recommended before advancing to Algebra 1.

### **Course: Algebra 1A**

Grade Level: 9,10,11,12

Credit: 1 unit

Prerequisite: Foundations 2

Fee: Will be charged

This course builds on the math foundations, which will be needed for further math education. As mandated by the State of Tennessee, this class is required for graduation. Understanding of the language and application of algebraic skills will be stressed throughout the course.

### **Course: Algebra 1B**

Grade Level: 9,10,11,12

Credit: 1 unit

Prerequisite: Algebra 1A

Fee: Will be charged

This course builds on the math foundations, which will be needed for further math education. As mandated by the State of Tennessee, this class is required for graduation. Understanding of the language and application of algebraic skills will be stressed throughout the course. The Gateway Exam will be given as part of this course.

Course: **Technical Algebra**

Grade Level: 9,10,11,12

Credit: 1 unit

Prerequisite: Algebra 1A or equivalent

Fee: Will be charged

Technical Algebra uses problem situations, physical models, and appropriate technology to extend algebraic thinking and engage student reasoning. Problem solving situations, including those related to a variety of careers and technical fields, will provide all students an environment which promotes communication and fosters connections within mathematics, to other disciplines and to the technological workplace. Students will use physical models in a laboratory setting to represent, explore, and develop abstract concepts. The use of appropriate technology will help students apply algebra in an increasingly technological world. The concepts emphasized in the course include: measurement, statistical data analysis, functions, solving equations, and slope as rates of change, and proportionality.

Course: **Geometry**

Grade Level: 9,10,11,12

Credit: 1 unit

Prerequisite: Algebra 1B

Fee: Will be charged

This course is an introduction to concepts of plane geometry, coordinate geometry, and solid geometry. A strong foundation in Algebra is recommended.

Course: **Honor's Geometry**

Grade Level: 9,10,11,12

Credit: 1 unit

Prerequisite: Algebra 1B

Fee: Will be charged

This course is an introduction to concepts of plane geometry, coordinate geometry, and solid geometry. A strong foundation in Algebra is recommended.

Course: **Technical Geometry**

Grade Level: 9,10,11,12

Credit: 1 unit

Prerequisite: Algebra 1B or equivalent

Fee: Will be charged

Technical Geometry incorporates the same core geometric concepts required in a standard geometry course but includes additional topics that focus on career and technical applications. These concepts will be taught using practical applications in a contextual style of teaching, including labs and projects. The structure of the course will include teaching groups of skills and concepts followed by their incorporation in a real world application and setting. .

Course: **Algebra 2**

Grade Level: 10,11,12

Credit: 1 unit

Prerequisite: Algebra 1B, Geometry

Fee: Will be charged

This course will include study in the complex number system. Study will include relations, functions, logarithms, systems of equations, imaginary numbers and inequalities. Throughout the course of study, students will apply theory and structure to the real number system.

Course: **Honor's Algebra 2**

Grade Level: 10,11,12

Credit: 1 unit

Prerequisite: Algebra 1B, Geometry

Fee: Will be charged

This course will include study in the complex number system. Study will include relations, functions, logarithms, systems of equations, imaginary numbers and inequalities. Throughout the course of study, students will apply theory and structure to the real number system. Students will also demonstrate a basic understanding of conics, determinants, inverse functions, and matrix algebra. A strong foundation in Algebra 1 is recommended.

Course: **Pre-Calculus and Trigonometry**

Grade Level: 11,12

Credit: 1 unit

Prerequisites: Algebra 2 and Geometry

Fee: Will be charged

This course will expand the relationships covered in Algebra 2, conics, and logarithms will be studied. The study of trigonometric functions, along with functions, will be covered. Students should have a strong math foundation before enrolling in this course. This course is designed to introduce the elements of Calculus.

Course: **Statistics**

Grade Level: 11,12

Credit: 1 unit

Prerequisites: Algebra 2 and Geometry

Fee: Will be charged

This course is designed to present the foundations for data analysis. Inference, sampling and hypothesis testing will be covered. Conducting research and applying statistical principles to such research will be studied. Emphasis will be placed on covering topics from the syllabi from area college statistic courses. It is recommended that a student enrolling in this course have a strong Algebra foundation.

Course: **Dual Credit Statistics**

Grade Level: 12

Credit: 1 unit High School-6 hours College

Prerequisites: Algebra 2 and Geometry

Fee: Walters State Community College tuition

Introduction to probability and statistics without calculus including descriptive statistics, probability distributions, the normal distributions, testing hypotheses, the T-test, and estimates and sample sizes. Must have a score of at least 19 on math portion and composite on ACT. Student will receive six (6) hours of college credit.

Course: **Advanced Placement Calculus**

Grade Level: 12

Credit: 2 units

Prerequisites: Pre-Calculus and Trigonometry

Fee: Students in AP classes will be required to take the AP Exam in the Spring.

This course is designed to develop an understanding of calculus and its applications. A.P. Calculus is equivalent in content to the Advance Placement AB Calculus. All AB objectives are included. This course may run two terms depending on enrollment size.

Course: **Math Peer Tutoring**

Grade Level: 11-12

Credit: 1 unit

Prerequisites: Varies

Fee: Will be charged

This course is designed give students the opportunity to explore the teaching field and tutor students enrolled in math classes. Students enrolled in peer tutoring will be required to teach class and tutor students one-on-one during class time. *Class only offered yearly pending state board approval.*

## MUSIC

Course: **Marching Band**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Prerequisite: By audition (upcoming 9<sup>th</sup> graders will need teacher recommendation)

Fee: Will be charged

The marching band is responsible for performing at all football games and will perform at two or three competitions. The band will take part in four parades (Mt. Carmel, Church Hill, Kingsport and Surgoinsville). After football season, this group will also perform a Winter Concert. This group is a symbol of the community and will perform at community events when applicable.

Course: **Concert Band**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Prerequisite: By audition

Fee: Will be charged

The concert band will focus on the learning of repertoire standard of wind bands throughout the world. Students will learn pieces by famous composers and present them to audiences in concerts throughout the semester. This class will also prepare students for performances at district concert festival, basketball games, and community events as requested. This class is also required for any student wishing to audition and participate in ETSBOA sponsored events such as Jazz Clinic, All-State East Senior Clinic, Upper Area Junior Clinic, and Solos & Ensemble Festival.

Course: **Auxiliary Band**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Prerequisite: By audition

Fee: Will be charged

This class features the visual portion of the marching band. It will feature work with flags, rifles, and sabers. Students will start out with basic technique, on flag, and continue working until all equipment is learned. Students will be required to participate in all performances by the marching band and will be required to be present at the Winter Concert given by the marching band at the end of the semester.

Course: **General Music (Music Appreciation)**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

There is no prerequisite for this class. All students, grades 9-12, are accepted. This class will focus on the art form that we hear everyday and truly take for granted. Students will start this class learning a basic historical timeline for music, continue by learning the music of other cultures and how it relates to their own, and finish with an analysis of music from the United States and how it is currently used in our culture. Students will learn basic music principles, such as, melody, rhythm, harmony, and theory.

Course: **Vocal Music (Concert Choir)**

Grade Level: 10, 11, 12

Credit: 1 unit

Prerequisite: Audition

A choir of mixed voices to study and perform advanced choral literature of all periods. Open to students only by audition or consent of the director.

## **PHYSICAL FITNESS/WELLNESS**

STUDENTS ARE ENCOURAGED TO DEVELOP PHYSICAL SKILLS, SOCIAL SKILLS, KNOWLEDGE OF RULES AND AN AWARENESS OF THE NEED FOR BEING PHYSICALLY FIT. ONE UNIT OF CREDIT OF WELLNESS IS REQUIRED BY THE STATE FOR GRADUATION. THEREFORE, NINTH GRADE STUDENTS MUST TAKE THIS COURSE. P.E. UNIFORMS ARE REQUIRED AND ARE PURCHASED THROUGH THE P.E. DEPARTMENT.

Course: **Wellness**

Grade Level: 9, 10

Credit: 1 unit

Fee: School P.E. Uniform is required

In this course, the student will apply knowledge in making decisions related to maintaining personal fitness and health. Character education will be taught. Emphasis will be placed on lifetime sports. Students will spend 9 weeks in the classroom and 9 weeks in the gym.

Course: **Physical Education**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Fee: School P.E. Uniform is required

Body mechanics, rhythmical activities, team sports, and individual and dual sports are part of the physical education curriculum. Students are encouraged to develop physical skills, social skills, knowledge of rules and an awareness of the need for being physically fit.

Course: **P.E. Body Building**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

This course is focused on improving the speed and power needed to perform various skills involved in all sports offered by VHS. It is offered to both boys and girls. All athletes are encouraged to enroll. Only students interested in a strenuous exercise program should participate.

Course: **Safety**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Fee: Will be charged

This course will provide knowledge and skills relating to CPR, accident prevention, first aid, and driver education. Students who qualify will be certified in CPR and hunter safety. *Class only offered yearly pending state board approval.*

**Course: Driver Education**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Prerequisite: Learner's Permit only

Fee: Will be charged

This course will stress the State of Tennessee driver's handbook. Students will be driving on open road and must possess a State of Tennessee learner's permit before enrolling in the class. Students already possessing a driver's license will not be allowed to take this course.

**Course: NJROTC (Naval Science I)**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Naval Science I is an introduction to citizenship, principles of leadership, teamwork and the value of scholarship in attaining life goals. This course includes an introduction to the NJROTC program – including benefits of the program, its mission and goals for today's youth and also a beginning introduction to the Navy – including its mission, its people, opportunities as well as customs and courtesies. Students in the program are expected to wear the Naval uniform each week as prescribed and to conform to acceptable military grooming standards to include haircut and other personal grooming. Opportunities are available for each student to participate in Naval oriented field trips away from school including visits to military bases and to participate in various teamwork, competitive events and leadership development courses. It should be noted that students participating in the NJROTC program do not incur any requirement to enter the military upon graduating from high school.

**Course: NJROTC II (Naval Science II)**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Naval Science II is the second level of Naval Science instruction. Students in this course of instruction have already received the basic training in leadership/followership principles and are placed in positions of leadership within the program to manage the day-to-day operations of the unit based on their demonstrated abilities. The first semester will include the history of Sea Power from 540 B.C. to the present. The second half of the course will be comprised of Nautical Sciences, which include: maritime geography, oceanography, meteorology, astronomy, and physical science. Students in this course are expected to lead by example and to wear the Naval uniform each week as prescribed and to conform to acceptable military grooming standards to include haircut and other personal grooming.

**Course: NJROTC III (Naval Science III)**

Grade Level: 10, 11, 12

Credit: 2 units

Prerequisite: Successful Completion of Naval Science II

Naval Science III is the third level of Naval Science instruction. This course is divided in two parts. The Naval Knowledge part will contain seven units – sea power and national security, the US. Merchant marine, naval operations, communications and intelligence, naval logistics, naval research and development, military law and international law. The Naval Skills part will contain eight units –ship construction and damage control, shipboard organization and watchstanding, seamanship, nautical rules of the road, navigation and time, the maneuvering board, naval gunnery, and naval aircraft. Students in this course will be placed in senior positions of leadership to manage the day-to-day operations of the unit based on their demonstrated abilities. Students in this course are expected to lead by example and to wear the Naval uniform each week as prescribed and to conform to acceptable military grooming standards to include haircut and other personal grooming.

Course: **NJROTC IV (Naval Science IV)**

Grade Level: 12

Credit: 2 units

Prerequisite: Successful Completion of Naval Science III

Naval Science IV is the fourth level of Naval Science instruction. This course is focused solely on practical leadership. The intent is to assist the junior or senior in understanding leadership and improving their leadership skills by putting them in positions of leadership, under supervision, then helping them analyze the reasons for their varying degrees of success through the year. Classroom activities include seminars, reading assignments, classroom presentations, and practical work with younger cadets. Includes instruction in theoretical and applied aspects of leadership, training, and evaluation of performance. Students will become aware of the techniques used to create motivation, develop goals and activities for a work group, and the proper ways to set a leadership example. Cadets will also apply these principles when dealing with younger cadets in the areas of military drill and inspections, athletic events, and in other school activities.

## **SCIENCE**

**THREE UNITS OF SCIENCE ARE REQUIRED FOR GRADUATION. UNITS MUST BE DIFFERENT COURSES, NOT DIFFERENT LEVELS WITHIN THE SAME COURSE. FOR EXAMPLE: THE STUDENT MAY NOT TAKE GENERAL BIOLOGY I AND HONOR'S BIOLOGY I. FEES WILL BE CHARGED IN ALL SCIENCE CLASSES. ACHIEVING THE LEVEL OF PROFICIENT OR ABOVE ON THE GATEWAY BIOLOGY EXAM IS ALSO REQUIRED FOR GRADUATION.**

Course: **Physical Science**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Fee: Will be charged

The study of properties of matter and energy, which give students experience in observing and analyzing experimental data through lab work.

Course: **Life Science**

Grade Level: 9, 10  
Credit: 1 unit  
Fee: Will be charged

This course will provide a review of the level 1 gateway exam objectives. It will provide the basic fundamentals of life processes, cell processes, classification of living things and topics in nature.

Course: **Biology**  
Grade Level: 9, 10, 11, 12  
Credit: 1 unit  
Fee: Will be charged  
Recommendation: Ninth grade by teacher recommendation.

In this course, the characteristics of life will be examined. This study of living things will encompass the molecules of life, cell structure and function, and many of the bodily processes of living things. Numerous laboratory activities will be included. The things examined in this course are designed to aid the student in passing the state Gateway exam. The Gateway Biology exam will be given at the end of the course.

Course: **Honor's Biology**  
Grade Level: 9, 10, 11, 12  
Credit: 1 unit  
Fee: Will be charged  
Recommendation: Ninth grade by teacher recommendation.

This course may be taken in lieu of, but not in addition to General Biology I. Students will cover all topics for the Gateway exam but with a more in-depth perspective of the living world. Emphasis will be placed on the advanced level Gateway standards. Lab experience will be included. The Gateway Biology exam will be given at the end of the course.

Course: **Ecology**  
Grade Level: 10, 11, 12  
Credit: 1 unit  
Prerequisite: Biology I  
Fee: Will be charged

This course involves a study of the natural and physical world around us. Some areas of special emphasis include: animals and their environments, plants, conservation, and the role humans play in our environment.

Course: **Human Anatomy and Physiology**  
Grade Level: 11, 12  
Credit: 1 unit  
Fee: Will be charged  
Prerequisite: Biology

Anatomy and Physiology is the study of the body's structures and respective functions at the molecular/biochemical, cellular, tissue, organ, systemic, and organism levels. Students explore the body through laboratory investigations, models, diagrams, and/or comparative studies of the anatomy of other organisms. The study of anatomy and physiology prepares students for a variety of pursuits such as health care, sports, and fitness careers, as well as for taking an active part in their own health and wellness. The student will study: Anatomical Orientation Protection, Support, and Movement Integration and Regulation Transportation Absorption and Excretion Reproduction, Growth, and Development

Course: **Advanced Placement Biology**

Grade Level: 10,11, 12

Credit: 2 units

Fee: Students in AP classes will be required to take the AP Exam in the Spring

Prerequisite: Biology and recommendation of the teacher.

This course is designed to be the equivalent of a college introductory course.

College credit can be earned through the AP exam given in May. This course differs significantly from Biology I with respect to the kind of textbook used, the range and depth of topics covered the kind of lab work, and the time and effort required by students. Topics covered will be: Cells and Molecules, Genetics, Ecology, Human Anatomy and Physiology.

Course: **Honor's Biology 2**

Grade Level: 11, 12

Credit: 1 unit

Prerequisite: Biology

Fee: Will be charged

This course is an advanced study of certain specific areas of biology designed to aid those students who are preparing for college. The students will explore numerous ecological concepts, aquatic biology, marine biology, habitats, and special environments. Outdoor laboratory experiments and data collection will be accomplished at the local creek and surrounding environments. The principles of genetics will be examined in some detail leaving the student with the ability to genetically evaluate numerous life forms. Laboratory dissections and anatomical studies will be accomplished on specimens as the earthworm and crayfish.

Course: **Chemistry**

Grade Level: 10, 11, 12

Credit: 1 unit

Recommendation: To have had physical science

Prerequisite: Must have completed Algebra 1

Fee: Will be charged

A course in which students learn about the composition of natural substances and the changes they undergo. The study of the fundamental concepts of atoms and molecules are also taught. Laboratory experimentation is included.

Course: **Advanced Placement Chemistry**

Grade Level: 11, 12

Credit: 2 units

Prerequisite: Chemistry I, Biology I, and Algebra 2 with 80 or above average.

Fee: Students in AP classes will be required to take the AP Exam in the Spring

This course is a more intensive study of the program offered in Chemistry I. College credit can be earned through the AP exam given in May.

Course: **Physics**

Grade Level: 11, 12

Credit: 1 unit

Recommendation: Algebra 2

Fee: Will be charged

This course introduces the student to the basic concepts of physics largely through laboratory experimentation. It is one of the three basic disciplines of science and is highly recommended to those students in engineering and medical fields.

## **SOCIAL STUDIES**

ONE UNIT IN UNITED STATES HISTORY, ONE UNIT IN ECONOMICS, ONE UNIT IN UNITED STATES GOVERNMENT, AND ONE UNIT OF GEOGRAPHY AND/OR WORLD HISTORY ARE REQUIRED FOR GRADUATION.

Course: **United States Government**

Grade Level: 11, 12

Credit: 1 unit

Fee: Will be charged

This course will examine the beginnings of democracy and include the history, organization, and function of local, state, and federal government.

Course: **Economics**

Grade Level: 11, 12

Credit: 1 unit

Fee: Will be charged

This course introduces a basic set of concepts, which can be applied to a wide range of social problems and the free enterprise system. The concepts considered include supply and demand, pricing under various competitive situations, introductory principles of money and banking, the Federal Reserve System and other financial institutions. The course also features a business consultant, who works with the classroom teacher to conduct a variety of lessons and activities.

Course: **Folklore and Appalachian Literature**

Grade Level: 11, 12

Credit: 1 unit

Fee: Will be charged

This course gives the students an increased awareness and appreciation of folklore and of the cultural heritage of the Appalachian Mountain region. Attention will be given to writing, which reflect the people, culture, and environment of the South. Some emphasis will be given to superstitions, folktales, sayings, and crafts of the area. An important aspect of the course will be the collecting and recording of area folklore. *Class only offered yearly pending state board approval.*

Course: **World History**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Fee: Will be charged

A survey course designed to acquaint the student with the distant past, the present, and the projected shape of the future for man and nations.

Course: **Honor's World History**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Fee: Will be charged

Students get a working knowledge of the past through a comprehensive survey of world history that will help them understand their own times and relationships with other nations. Attention will be given to the political, economic, educational, religious, the arts and other aspects of intellectual and social history.

Course: **World Geography**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Fee: Will be charged

A general study of the physical characteristics of the earth, its land and water areas. Attention will be given to the culture and economy of different areas, as well as map skills.

Course: **Psychology**

Grade Level: 11, 12

Credit: 1 unit

Fee: Will be charged

A survey of the basic principles and theories in the science of psychology. Topics included are biological and developmental processes, learning and thinking, personality adjustments and mental health.

Course: **U.S. History**

Grade Level: 11, 12

Credit: 1 unit

Fee: Will be charged

A general survey, principally of the political, economic and social development of the United States from the Industrial Revolution to the present. Special attention will be given to national leaders, their ideas and contributions, as well as to the main currents and developments in American life.

Course: **Honor's U.S. History**

Grade Level: 11, 12

Credit: 1 unit

Fee: Will be charged

As a problem-centered course, the major emphasis will be placed on research, class discussion, community-based projects and student centered inquiry. This course will contain a brief survey of topics covered in the general course level from Industrial Revolution through present.

Course: **Advanced Placement U.S. History**

Grade Level: 11, 12

Credit: 2 Units

Fee: Students in AP classes will be required to take the AP Exam in the Spring

This course provides students with the analytic skills necessary to deal critically with the problems and materials in U.S. History. It prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials - their relevance to a given interpretive problem, their reliability and their importance - and to weigh the evidence and interpretations presented in historical scholarship. The student will develop skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly in an essay format.

Course: **U.S. History (Dual Credit)**

Grade Level: 11, 12

Credit: 1 credit for high school – 6 credits for college

This course is a survey of the settlement and development of the thirteen colonies, the Revolutionary period, creation of the Constitution, the diplomatic, economic, and political problems of the new United States government, the growth of nationalism, Jacksonian Democracy, territorial expansion, the Civil War, and the Reconstruction era. It also includes a survey of the growth of the U.S. as an industrial and world power since Reconstruction: the industrial revolution, immigration, urbanization, the rise of labor, Spanish-American War, Progressivism, World War I, the Twenties, the Great Depression and New Deal, World War II, and the post-World War II era.

## **REMEDIAL EDUCATION**

Remedial education classes will be offered for students passing gateway related classes but failing the actual gateway. Classes in this section are courses for elective credit only

Course: **Gateway Biology**

Grade Level: 10,11,12

Credit: 1 unit

Prerequisite: Biology

Fee: Will be charged

This course is designed for those students not reaching the proficient level on the Gateway exam. This course is for ELECTIVE credit only and may be required.

Course: **Gateway Algebra 1**

Grade Level: 10

Credit: 1 unit

Prerequisite: Algebra 1B

Fee: Will be charged

This course is designed for those students not reaching the proficient level on the Gateway exam. This course is for ELECTIVE credit only and may be required.

Course: **Gateway English 10**

Grade Level: 10

Credit: 1 unit

Prerequisite: English II

Fee: Will be charged

This course is designed for those students not reaching the proficient level on the Gateway exam. This course is for ELECTIVE credit only and may be required.

## **SPECIAL EDUCATION**

TRANSITIONAL CLASSES ARE OPEN ONLY TO THOSE STUDENTS WHO ARE CURRENTLY VERIFIED BY THE IEP-TEAM AS HAVING SPECIAL NEEDS. PLACEMENT IS MADE BY THE IEP-TEAM AND ENROLLMENT IN THE CLASS MUST BE STATED ON THE I.E.P.

Course: **Exploring Exceptional Needs**

Grade Level: 10,11,12

Credit: 1 unit

Prerequisite: Exceptional attendance and teacher recommendation

Students will research a range of different disabilities and complete class projects with special needs students. Some off campus activities will be required.

Course: **Transitional Math**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

This course is designed for special needs students who are functioning below basic proficiency level. It reviews or covers basic mathematics especially as it relates to the Gateway Exam.

Course: **Transitional English**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

The student will participate in an individualized learning program based on the student's own ability level in reading and language arts. The program incorporates skill building toward mastery of Gateway English exam requirements.

Course: **Transitional Algebra 1A**

Grade Level: 9,10,11,12

Credit: 1 unit

This course builds on the math foundations, which will be needed for further math education. Gateway objectives will be emphasized.

Course: **Transitional Algebra 1B**

Grade Level: 9,10,11,12

Credit: 1 unit

Prerequisite: Algebra IA

This course builds on the math foundations, which will be needed for further math education. Gateway objectives will be emphasized and the Gateway Algebra exam will be given at the end of the course.

Course: **Work Based Training**

Grade Level: at least 16 years old

Credit: 1 unit

Students work on skills such as applications, interviewing, social skills and career exploration. Students also participate 3 times a week in the community at job sites. Due to the nature of the class, attendance is a must. Poor attendance will prevent off campus activities. Successful completion of School based training is highly recommended.

Course: **School Based Training**

Grade Level: 9,10, or IEP

Credit: 1 unit

Students Participate in school based jobs for part of the class. Topics to help students succeed in the general curriculum.

Course: **Daily Living Skills**

Grade Level: 9,10,11,12 or IEP

Credit: 1 unit

Students participate in activities to cover everyday living skills based on individual needs.

Course: **Functional Academics**

Grade Level: 9,10,11,12 or IEP

Credit: 1 unit

Functional reading and math skills will be addressed based on the student's academic abilities as noted in their IEP.

## VOCATIONAL/TECHNICAL EDUCATION

### Technology Education

Course: **Innovations and Inventions**

Grade Level: 9,10,11,12

Credit: 1 unit

Prerequisite:

Fee: Will be charged

The course is designed to provide information and experiences concerning potential careers within the broad field of technology and training. In addition, leadership-training skills will incorporate the student's knowledge and discipline in order to develop an understanding of the teamwork essential to success in technology education. Innovations and Inventions will enable students to further develop technological literacy skills. Integrated academics combined with hands on program of study that teaches about the development and applications of technology and the effects technology has on individuals, society and the environment.

Course: **Diversified Technology I**

Grade Level: 10, 11, 12

Credit: 1 unit

Prerequisite:

Fee: Will be charged

This course is a literacy course in technology education designed to challenge students interested in planning technical careers in today's high technological society. This course is designed to provide information and experiences to help all students adapt themselves to the workforce in the 21<sup>st</sup> century. It will help all students develop skills in problem solving, teamwork, time management, computer skills, and to help them make valid career decisions. This course is a technology literacy course designed to challenge students interested in planning technical careers in today's high technological society.

Course: **Diversified Technology II**

Grade Level: 11,12

Credit: 2 units

Prerequisite: Diversified Technology I, Algebra I

Fee: Will be charged

This course is a technology literacy course designed to challenge students interested in planning technical careers in today's high technological society. Modules included are: Digital Imaging, Space, Robotics, Computer Repair, Multimedia design, Computer Animation, and A+ Certification.

### Information Technology

Course: **Computer Applications**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Fee: Will be charged

Students will learn the correct touch method of typing along with today's business skills in the first two weeks. Next, memorandums, letters, reports, and tables will be introduced using Microsoft Word. Spreadsheets and presentations will then be covered using Excel and PowerPoint. Beginning web design will be introduced using Frontpage. E-mail and internet safety issues will also be covered.

Course: **Desktop Publishing**

Grade Level: 10, 11, 12

Credit: 1 unit

Prerequisite: Keyboarding

Fee: Will be charged

The student will develop skills in electronic publishing design, layout, composition, and paste-up. The techniques will be applied in creating and formatting various publications that require imported data/graphics using resources such as the Internet, scanner, etc. The student will research and apply copyright laws, ethical practices and language arts skills with reference to electronic publishing.

Course: **Advanced Computer Applications**

Grade Level: 9, 10, 11, 12

Credit: 1 unit

Prerequisite: Computer Applications

Fee: Will be charged

Explore the depths of the Microsoft Office Suite. Design letterheads and business cards and learn how to perform math calculations using impressive macros in Excel. Students will find additional ways to impress the audience in PowerPoint. Students will get an introduction to database management through Access. Students will build an electronic portfolio to take to college and/or the workplace.

Course: **Automated Accounting**

Grade Level: 10, 11, 12

Credit: 1 unit

Fee: May be charged for materials during the course

Students will learn to apply accounting principles to a service business, manufacturing business and a corporation. They will learn proprietorship and partnership styles of ownership. Chapter problems will be written; Unit problems will be computerized. This is a fast-paced class and a must for students who plan to major in business or accounting in a 2 or 4 year college.

## **Art and Communications**

Course: **Web Design**

Grade Level: 10,11,12

Credit: 1 unit

Prerequisite: Keyboarding

Fee: Will be charged

This course will introduce students to the language, structure and fundamental concepts and principles of page layout/design and the ethics related to the production of Internet presentations. Students will develop Internet research techniques for business, such as: storyboarding, effective use of websites, digital commerce. Social, legal and ethical issues will also be addressed. Major part of this course will be HTML coding.

Course: **Web Design 2**

Grade Level: 11,12

Credit: 1 unit

Prerequisite: Web Design

Fee: Will be charged

This course prepares students with work-related skills for advancement postsecondary education or industry. Course content includes exposure to basic and advanced Web design, pixilated and vector-based Web graphics, Web animations,

dynamics of Web hosting, and Web design in E-commerce. The course content provides students the opportunity to acquire fundamental skills in both theory and practical application of Web design and of leadership and interpersonal skill development. Laboratory facilities and experiences simulate those found in the Web page design and Web page construction industry. Further, this course maps to the Certified Internet Webmaster “Site Designer” national certification.

**Course: Web Design 3**

Grade Level: 11,12

Credit: 1 unit

Prerequisite: Web Design 2

Fee: Will be charged

This course prepares students with work-related skills for advancement into postsecondary education or industry. Course content includes exposure to Web design in *ecommerce* with marketing, customer relations, and commercial Web site publication. The course content provides students the opportunity to acquire fundamental skills in practical application of Web development, leadership, and interpersonal skill development. Laboratory facilities and experiences simulate those found in the Web page design and Web page construction industry. This course correlates to the CIW certification “e-commerce”.

**Course: Graphic Communications**

Grade Level: 10, 11, 12

Credit: 1 unit

Fee: Will be charged

This course is the first in a series that prepares students for gainful employment and/or entry into post-secondary education in the graphic communications industry. Content provides the opportunity to acquire marketable skills by examining both the industry and its career opportunities and by developing leadership, teamwork, and industry skills. Laboratory facilities and experiences simulate those found in the graphic communications industry.

**Course: Graphic Communications 2**

Grade Level: 10, 11, 12

Credit: 2 units

Prerequisite: Graphic Communications

Fee: Will be charged

This course, which is the second level of graphic communications, prepares students for work-related skills and advancement into graphic design and digital imaging and for gainful employment and/or entry into post-secondary education in the graphic communications industry. Content provides students the opportunity to acquire marketable skills in both theory and practical application.

**Course: Graphic Design and Digital Imaging**

Grade Level: 11, 12

Credit: 2 units

Prerequisite: Graphic Communications

Fee: Will be charged

This level of the graphic communications sub cluster covers the principles of design and general layout procedures. Content will cover electronic systems and software programs used in graphic design, page composition, image conversion, and digital printing. Advanced knowledge and skill in graphic design and digital imaging will be enhanced in a graphic communication production laboratory facility through experiences, which simulate the graphic communications industry and school-based and work-based learning opportunities.

## Hospitality and Tourism

Course: **Culinary Arts 1**

Grade Level: 10, 11

Credit: 2 units

Prerequisite:

Fee: Will be charged

This course, which is the first level of Culinary Arts, prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to acquire marketable skills by examining both the industry and its career opportunities and by developing food preparation and service and interpersonal skills. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning opportunities.

Course: **Culinary Arts 2**

Grade Level: 10, 11, 12

Credit: 2 units

Prerequisite: Culinary Arts I

Fee: Will be charged

This course, which is the second level of Culinary Arts, prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to acquire marketable skills by examining both the industry and its career opportunities and by developing food preparation and service and interpersonal skills. Laboratory facilities and experiences, which simulate commercial food production and service operations, offer school-based learning opportunities.

Course: **Culinary Arts 3**

Grade Level: 10, 11, 12

Credit: 2 units

Prerequisite: Culinary Arts I

Fee: Will be charged

This course, which is the third level of Culinary Arts, serves as a capstone course. It too prepares students for gainful employment and/or entry into post-secondary education in the food production and service industry. Content provides students the opportunity to apply the marketable culinary arts skills they have acquired by assuming increasingly responsible positions including participation in a cooperative education experience.

## **Transportation Service Technology**

Course: **Career Management Success**

Grade Level: 9, 10

Credit: 1 unit

Fee: Will be charged

This course is a core course for career clusters. The course provides students with tools for achieving success in their academic, work, and personal lives. Course content emphasizes the basic skills and knowledge needed for employment success, as identified by industry and supported by relevant national standards. All course content is presented in a real-world context, providing concrete opportunities for developing personal and career goals, effective communication skills, teamwork abilities, and successful work attitudes.

Course: **Transportation Core**

Grade Level: 9, 10

Credit: 1 unit

Fee: Will be charged

Prerequisite: None

The *Transportation Core* course prepares students for entry into all subsequent transportation courses. Students explore career opportunities and requirements of a professional service technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, and basic technician skills. Upon completing this course students may enter automotive service technology, diesel equipment maintenance technology, leisure craft service technology, collision repair and refinish technology, or aviation maintenance.

Course: **Automotive Technology: Electrical and Electronics**

Grade Level: 10, 11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Transportation Core

*Automotive: Electronics* is a course that prepares students for entry-level positions or advanced training in automotive electrical and electronics systems. Students apply principles of electronics to automotive technology and develop diagnostic skills. The course provides students the opportunity to acquire marketable skills by training in the use of digital and analog voltmeters, ohmmeters, and amp-meters; as well as oscilloscopes, test-lights, load-testers and specialized electrical test equipment. Education experiences simulate automotive service industry operations through the use of training aids and modules and school-based learning opportunities. Course content prepares students for the Automotive Service Excellence (ASE) Electrical and Electronics.

Course: **Automotive Technology: Engine Performance**

Grade Level: 11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Transportation Core

*Automotive: Engine Performance* is a course that prepares students for entry-level positions or advanced training in engine performance. The course covers electronic ignition and distributor ignition systems, fuel management, exhaust emission control, and computer input and output signals and will identify the different types of sensors used by

automotive engine computers. Students will perform inspections, tests, and measurements for diagnosis and perform needed repairs. Education and experiences simulate automotive service industry operations through the use of training aids and modules and offer school-based learning opportunities. Course content prepares students for the Automotive Service Excellence (ASE) Engine Performance test.

Course: **Automotive Technology: Brake Systems**

Grade Level: 10,11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Transportation Core

*Automotive: Brake Systems* course offers training in the diagnosis and repair of hydraulic, mechanical, and electrical systems used in standard and anti-lock brake systems. Course content includes diagnosis, repair, and/or service technology of hydraulic and antilock brake systems to original equipment manufacture (OEM) specifications. Educational experiences simulate automotive service industry operations through training aids, laboratory facilities, and school-based learning opportunities. Course content prepares students for the Automotive Service Excellence (ASE) Brake System test, for entry-level placement in the workforce, and for entry into post-secondary education.

Course: **Automotive Technology: Suspension and Steering**

Grade Level: 10,11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Transportation Core

*Automotive: Suspension and Steering* is a course that prepares students for entry-level positions or advanced training in automotive suspension and steering systems. Course material covers the principles of automotive suspension/steering systems and four-wheel suspension alignment. Course content provides the student the opportunity to acquire marketable skills by training in wheel alignment and the testing, diagnosis, and repair of steering and suspension systems. Lab facilities and experiences simulate automotive service industry operations through the use of training aids and modules and school-based learning opportunities. Course content prepares students for the Automotive Service Excellence (ASE) Suspension and Steering test.

## **Agricultural Education**

Course: **Greenhouse Management**

Grade Level: 9, 10, 11

Credit: 2 unit

Fee: Will be charged

Greenhouse Management sets a foundation for progress in the horticulture sub-cluster area. As populations continue to expand, the importance of food production in a condensed, climate-controlled environment increases. Understanding the integrated principles needed for the successful management of a greenhouse will allow the agricultural industry to continue to produce the quality and quantity of food and fiber needed in the 21st century.

Course: **Nursery Production**

Grade Level: 11, 12

Credit: 1 unit

Prerequisite:

Fee: Will be charged

Nursery production includes standards that challenge students to plan for needs in the production of ornamental products. As the urban society continues to expand to other regions, nursery production is important to provide aesthetic landscaping for various cultures and desires.

Course: **Exterior/Interior Landscaping**

Grade Level: 10,11, 12

Credit: 1 unit

Fee: Will be charged

Exterior/Interior Landscaping includes standards to prepare students for creating aesthetic environments for homes and industries. As the population expands and economies grow, the demand for planned and creative exterior and interior landscapes increases. The desire for appropriate landscape materials and designs will grow in the 21st century.

## **Construction Technology**

Course: **Career Management Success**

Grade Level: 9, 10

Credit: 1 unit

Fee: Will be charged

This course is a core course for career clusters. The course provides students with tools for achieving success in their academic, work, and personal lives. Course content emphasizes the basic skills and knowledge needed for employment success, as identified by industry and supported by relevant national standards. All course content is presented in a real-world context, providing concrete opportunities for developing personal and career goals, effective communication skills, teamwork abilities, and successful work attitudes.

Course: **Construction Core**

Grade Level: 9, 10

Credit: 1 unit

Fee: Will be charged

Prerequisite: None

*Construction Core* is a course that will introduce students to basic skills and knowledge applicable to all construction trades. Topics covered include safety, construction drawings, site layout, hand and power tools, linear and angular measurements, and application of algebraic and geometric principles to construction problems.

Course: **Principles of Welding**

Grade Level: 10,11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Construction Core

*Principles of Welding\** is a course in which students will learn basics skills and knowledge related to cutting and welding applications. Welding and cutting skills will be developed in the context of a series of projects. Combined with the second year course, *Welding Applications*, the student should be prepared for Entry Level Welding Certification, as defined by American Welding Society (AWS) QC10.

Course: **Welding Applications**

Grade Level: 10,11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Construction Core, Algebra I, Geometry

*Welding Applications\** is a course designed to follow *Principles of Welding*, in which students will learn more advanced techniques and skills related to cutting and welding applications, particularly as they relate to stainless steel and aluminum. Welding and cutting skills will be developed in the context of a series of projects. Following the completion of this course, the student should be prepared for Entry Level Welding Certification, as defined by American Welding Society QC10.

Course: **Carpentry I**

Grade Level: 10,11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Career Management and Construction Core

*Carpentry I* is a course that will introduce students to basic skills and knowledge related to residential and commercial carpentry. Topics covered include wood, metal, and concrete building materials; fasteners; hand and power tools; fabrication based on construction plans; and framing of platform and post-and-beam structures, in both wood and metal. This course gives students an introduction to the skill and knowledge base typically required for apprentice carpenters.

Course: **Carpentry II**

Grade Level: 11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Carpentry I, Algebra I (Math for Tech II), Geomertry

*Carpentry II* is a course in which students will extend their skills and knowledge related to residential and commercial carpentry. Topics covered include stairs, installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior finish work, thermal and moisture protection, and an introduction to welding. This course gives students a substantial skill and knowledge foundation typically required for apprentice carpenters.

Course: **Electrical I**

Grade Level: 10,11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Construction Core

This course, which is the first level of electrical, will provide basic skills and knowledge related to residential and commercial electrical systems. Course content includes leadership development, safe practices, Ohm's law, installing conduit, conductors, residential and commercial electrical systems and services according to National Electrical code (NEC) and local codes. This course gives students an introduction to the skill and knowledge base typically required for apprentice electricians.

Course: **Electrical II**

Grade Level: 11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Electrical I, Algebra I (Math for Tech II)

*Electrical II* is a course in which students will learn and practice intermediate skills related to electrical systems, with emphasis on commercial systems. Topics covered include over-current protection; sizing conductors; lighting systems; three-phase motors; motor control circuits; sizing raceways, boxes, and fittings; and connecting distribution transformers, including a laboratory experience conducted in a shop environment that supports electrical assembly projects by students. This course gives students a substantial skill and knowledge foundation typically required for apprentice electricians.

Course: **Plumbing I**

Grade Level: 10,11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Career Management and Construction Core

*Plumbing I* is a course that will introduce students to basic skills and knowledge related to residential and commercial plumbing. Topics covered include water distribution processes, installation of hot and cold water systems, and an introduction to drain, waste, vent systems in residential and commercial structures, cutting and fitting pipe, making joints, securing pipe, and roughing in. This course gives students an introduction to the skill and knowledge base typically required for apprentice plumbers.

Course: **Plumbing II**

Grade Level: 10,11, 12

Credit: 2 units

Fee: Will be charged

Prerequisite: Plumbing I, Algebra I (Math for Tech II)

*Plumbing II* is a course in which students will extend their skills and knowledge related to residential and commercial plumbing. Topics covered include physics principles, fuel piping systems, pressure reducers, backflow preventers, troubleshooting and repair, DWV piping, vents, and drainage. This course gives students a substantial skill and knowledge foundation typically required for apprentice plumbers.

Course: **Masonry I**  
Grade Level: 10,11, 12  
Credit: 2 units  
Fee: Will be charged  
Prerequisite: Construction Core

*Masonry I* is a course that will introduce students to basics skills and knowledge related to masonry construction in residential and commercial structures. Topics covered include safe practices, interpretation of construction drawings, basic laying techniques, masonry reinforcement, arch construction, and accommodations for weather. This course gives students an introduction to the skill and knowledge base typically required for apprentice masons.

Course: **Concrete I**  
Grade Level: 10,11, 12  
Credit: 2 units  
Fee: Will be charged  
Prerequisite: Construction Core

*Concrete I* is a course that will introduce students to basic skills and knowledge related to reinforced concrete construction in residential and commercial structures. Topics covered include safe practices, drawing interpretation, composition of concrete, principles of reinforcement, form construction, load analysis, and placing, curing and testing concrete. This course gives students an introduction to the skill and knowledge base typically required for apprentice concrete artisan.

## **Human Services**

Course: **Principles of Cosmetology**  
Grade Level: 9, 10, 11, 12  
Credit: 1 unit  
Fee: Will be charged

This course, which is the first level of cosmetology, prepares students with work-related skills for advancement into the Design Principles of Cosmetology course. Content provides students the opportunity to acquire basic fundamental skills in both theory and practical applications of leadership and interpersonal skill development. Content stresses safety, environmental issues, and protection of the public and designers as integrated with principles of hair design, nail structure, and cosmetic procedures. Laboratory facilities and experiences simulate those found in the cosmetology industry.

Course: **Design Principles of Technology**  
Grade Level: 10, 11, 12  
Credit: 2-3 units  
Prerequisite: Principles of Cosmetology  
Fee: Will be charged

This course, which is the second level of cosmetology, prepares students for work-related skills and advancement into the Chemistry of Cosmetology course. Content provides students the opportunity to acquire knowledge and skills in both theory and practical application. Advanced knowledge and skills in hair design, nail artistry, and cosmetic applications will be enhanced in a laboratory setting, which duplicates cosmetology industry standards. Upon completion and acquisition of 600 hours, students are eligible to take the Tennessee Board of Cosmetology manicuring examination for a Tennessee Manicure License.

Course: **Chemistry of Cosmetology**

Grade Level: 11, 12

Credit: 2-3 units

Prerequisite: Principles of Cosmetology and Design Principles of Technology

Fee: Will be charged

This course, which is the advanced level of cosmetology, prepares students to perform work-related services using chemicals in the cosmetology industry. Content provides students the opportunity to acquire foundation skills in both theory and practical applications. Laboratory facilities and experiences will be used to simulate cosmetology work experiences. Upon completion and acquisition of 1500 hours, students are eligible to take the Tennessee State Board of Cosmetology examination for a Tennessee Cosmetology License. Upon completion and acquisition of 600 hours, students are eligible to take the Tennessee State Board of Cosmetology Manicuring examination for a Tennessee Manicuring License.

