

## ENGLISH DEPARTMENT

The English Department offers Academic Intervention Services (AIS) for those students who score a Level 1 or Level 2 on the Eighth Grade ELA Assessment. Students identified as needing AIS will be enrolled with a certified faculty member and/or Title I services to prepare them for the English Language Arts Examination at the conclusion of English 11.

### English 7 – 1 Unit of Study

Students will read several genres of literature: novels, short stories, nonfiction books and articles, full-length plays, and poetry. Students will become acquainted with literary terms, including those associated with setting, character, plot, conflict, and poetry. Students will write several compositions focusing on the ability to write persuasive and descriptive essays, write in journals, and write responses from notes taken while listening to a speech or viewing a video. Assigned projects will be interdisciplinary with social studies class and will emphasize verbal and written skills. Students will continue mastery of grammar, punctuation, spelling, vocabulary, and editing. *A New York State Assessment is given in May.*

### English 8 – 1 Unit of Study

Students will continue to master the skills learned in English 7, with an emphasis on reading, writing and comprehension, in preparation for the *New York State Intermediate English Language Arts Exam given in May.*

### English 9 – Regents – 1 Credit

Students will read several genres of literature: novels, short stories, nonfiction books and articles, full-length plays, and poetry. Students will become better acquainted with literary terms, including those associated with plot, literary technique, and poetry. Students will write several compositions, focusing on the ability to write persuasive essays, to write reports, and to write essays from notes taken while listening to a speech. Students will study grammar: sentence completeness and variety, subject/verb/pronoun agreement, verb usage, pronoun usage, modifier usage, and mechanics. Students will continue mastery of spelling and vocabulary skills.

**Prerequisite: Completion of 8<sup>th</sup> Grade English**

### English 10 – Regents – 1 Credit

The major emphasis of this course is developing students' desire to read independently by exposing them to all the literary genres. Students learn to analyze (explicate) a piece of literature and to develop a proficiency in the mechanics, organization, unity, and economy of words in written communication. Also, there is attention to the skills of attentive listening and logical thinking necessary for effective written and oral communication. **Prerequisite: Completion of English 9**

### English 11- Regents – 1 Credit

Students will read all genres of American literature, beginning with the earliest of nonfiction historical documents and culminating with contemporary novels, short stories, plays, and poetry. Students will concentrate on the skills necessary to 1) read and analyze different types of literature and write an essay based on meaning and literary technique, 2) develop a thesis statement and write a critical essay regarding two major literary works, 3) use nonfiction documents and charts to write a report, and 4) listen to a speech, take notes and write an essay using the content of the speech for a designated purpose. Students will study the following aspects of grammar: agreement, parallel structure, placement of modifiers, clear reference, mechanics, and coordination and subordination of ideas using compound and complex sentences. Students will continue mastery of spelling and vocabulary skills. ***(The final exam for English 11 is the New York State Regents Comprehensive Exam in English – a 3-hour exam. Passing this exam is required for graduation.)*** **Prerequisite: Completion of English 10.**

### English 12 – 1 Credit

As part of a study of the history of the English language and literature, students will read samples of British literature that run from its beginnings, over a thousand years ago, to the present; with a concentration being placed on the Middle Ages, the Renaissance, and the Enlightenment. The literary selections will include epic poetry, short stories, novels, plays, and lyric poetry. Students will write essays for purposes of persuasion, literary analysis, editorializing, and satirizing. In addition, the students will write a major research (term) paper. At the end of the year, the students will prepare a resume and cover letter. The students will review the fundamentals of grammatical usage from previous years, with emphasis on clarity, mechanics, and economy of expression. Students will continue mastery of spelling and vocabulary skills. **Prerequisite: Completion of English 11.**

### History Through Film – 1 Credit – Elective – Grades 11 – 12

In this new course offering, we will focus on movies and history and how real/reel history helps, distorts, memorializes and strengthens our understanding of “real” history. Students will watch a series of films during the year that deal with important issues in history. Your job will be to figure out how the film has contributed to our historical understanding – or misunderstanding – of the events depicted in the movie. We are going to work chronologically, backwards, through a series of events depicted in films. There will be at least one interdisciplinary unit, combining English and social studies. Two books and films will be emphasized: All Quiet on the Western Front by Erich Maria Remarque and A Farewell to Arms by Ernest Hemingway.

### Creative Writing – 1/2 Credit – Fall Elective

This course will focus on the basics of writing both poetry and short stories. Students will be expected to read poems and short stories outside of class to serve as models. Class will discuss the writing process, share pieces with each other, and critique them as a class. The publication process will also be discussed and students will be encouraged to submit pieces for publication. As this is a writing-intensive class built on class discussion, attendance, a positive attitude, and a willingness to accept criticism are essential. Students wishing to take this course should work well independently and be comfortable meeting deadlines.

### Public Speaking – 1/2 Credit – Spring Elective

Students will learn effective strategies for researching, preparing, and delivering informative and persuasive speeches to small groups. Students will be able to demonstrate methods for building confidence in speech delivery, supporting points with evidence, analyzing the audience, using media aids effectively, and refining delivery style.

### Holocaust Literature – (elective) - 1/2 Credit – (Distance Learning) – 2<sup>nd</sup> Semester

This course will consider the reality and implications of the Nazi campaign to destroy European Jews from 1933 to 1945. With the technological advantages of interactive microphones and cameras, the teacher will encourage discussion among class members in the three participating schools, and will invite survivors of the Holocaust to sharpen students' focus and sensitivity. Limited to six appropriately motivated and self-reliant junior or senior high school students in each school, the course will require some outside reading and a major project, along with occasional tests and a running journal of the course experience. Culminating field trip to Washington, D.C. at conclusion of the course. Approximate cost per student is \$ 250.00. Students will be expected to do fundraising to off-set the cost.

### English Composition I – 1/2 Credit (Dual Enrollment) – Grades 11 – 12 – **ENG 1510 (3 JCC credits)**

Students will learn to write precise, clear, substantive essays. Students will work with multi-page papers, organization, and mechanics. Emphasis will be placed on critical thinking, reading, and writing. ***Prerequisite: admission by ACCUPLACER score of 7-9; Reading: score of 80+.*** (ENG 1510 – 3 college credits)

### English Composition II – 1/2 Credit (Dual Enrollment) – Grades 11 – 12 – **ENG 1530 (3 JCC credits)**

Students will learn to write precise, clear, substantial, and logical essays. They will develop critical thinking and writing skills required in higher education, employment, and life. Students will also learn to conduct research and write a research paper. ***Prerequisite: admission by ACCUPLACER score of 10-12 or successful completion of English Composition I; Reading: score of 80+.*** (ENG 1530 – 3 college credits)

## SOCIAL STUDIES DEPARTMENT

### Social Studies 7 & 8 – 1 Unit of Study per year

United States and New York State History is a chronologically organized two-year course of study. The two-year sequence traces the human experience in the United States from pre-Columbian times to the present, tying major political, economic and social trends in U.S. History to parallel trends and time frames in NYS history. Skill development includes the ability to organize and process information and ideas, investigate issues, make appropriate decisions, and determine and understand one's rights and responsibilities. *A local final examination is given at the end of the 8<sup>th</sup> grade year.*

### Global History & Geography 9 – Regents - 1 Credit

This course begins the two-year global history program. It is designed to foster an appreciation of a variety of cultures and respect for the integrity of people throughout the world. The global history program is also intended to provide students with a global perspective and an increased awareness of the critical interdependence of nations and people. Over the course of the two-year program Africa, Asia, Latin America, and Europe will be studied as well as various global issues. *A local final examination is given at the conclusion of the course. Prerequisite: Completion of 8<sup>th</sup> Grade.*

### Global History & Geography 10 – Regents – 1 Credit

This course continues the Global History, which began in the 9<sup>th</sup> grade. The 9<sup>th</sup> and 10<sup>th</sup> grade global history program is assessed by the state Regents Exam administered at the end of 10<sup>th</sup> grade. *The Global History and Geography Regents Exam (taken in 10<sup>th</sup> grade) is required with a passing score of 65% or higher for graduation. Prerequisite: Completion of Global History 9.*

### U.S. History and Government – Grade 11 - Regents – 1 Credit

This course covers American history chronologically from the 1700's until the present time. Emphasis is placed on social, political, and economic developments in the United States to give the student an understanding of the past and present day American society, and an appreciation of American democratic values. *The United States History and Government Regents Exam is given as the final exam and a passing grade of 65% or higher is required for graduation. Prerequisite: Completion of Global History 10.*

### Participation in Government – Grade 12 - 1/2 Credit

This required one semester course is designed to meet one half of the fourth year requirement for social studies. Its subject matter deals with national, state, and local political experiences. Areas of study covered include government power, interest groups, political parties, public policy issues, decision-making, and local government. *A local final examination is given. Prerequisite: Completion of U.S. History & Government.*

Economics – 1/2 Credit – Grade Level 12

This required one semester course is designed to meet one half of the fourth year requirement for social studies. Basic macro/micro economic concepts are explored. Students gain an understanding of the important role economics plays in society on the personal, national, and international levels of decision-making. ***A local final exam is given.*** **Prerequisite: Completion of Participation in Government.**

Civil War – (Elective) - 1/2 Credit – Grades 11-12 - (Distance Learning – Clymer) – 2<sup>nd</sup> Semester

This course is designed to give the students an understanding of the events leading up to the American Civil War and the conflict itself. In the course, students will look at the major causes of the conflict, paying attention to some of the major personalities of the Ante-Bellum period and of the war years themselves. Class will also discuss strategies of the two sides and examine, in depth, the major battles fought between the armies of the North and the South from 1861 through 1865. There is no text for the class, rather, resources for papers, homework, and research will be found online.

Introduction to Psychology – 1/2 Credit – Grade 11-12 - Elective

A wide range of topics is covered in this semester course. Areas explored are psychology as a science, personality development, stress management, phobias, intellectual development, and intelligence testing. ***A local final examination is given.***

Introduction to Sociology – 1/2 Credit – Grade 11-12 - Elective

The purpose of this course is to provide students with an introductory experience in the field of sociology. The study of sociology examines the relationships between individuals and groups and provides insight into individual and group behavior. An awareness and understanding of oneself and one's interaction with others is essential and may be utilized to promote personal growth and development. ***A local final examination is given.***

Contemporary Issues – (Online Learning – Panama) - 1 credit – Grades 11-12 – Elective

This elective is available from Panama and is ***completely on-line*** using Moodle, which will foster an interactive and connected learning environment that is based on a Social Constructivist learning philosophy. Students must be interested in a class where discussion, debate, research and problem solving will be utilized to gain a better understanding of the issues and crises of the contemporary period as viewed from a historical perspective. Students must be prepared to defend their beliefs in an open and mature manner. Class participation is critical for successful completion. Being that the course is completely online, students will need to be self-motivated and self-disciplined to be successful.

## MATHEMATICS

The Mathematics Department offers Academic Intervention Services (AIS) for those students who score a Level 1 or Level 2 on the Eighth Grade Math Assessment. Students identified as needing AIS will be enrolled with a certified faculty member and/or Title I services to prepare them for the next upcoming Mathematics Examination.

### Math 7 – 1 Unit of Study

General Math operations with an emphasis on fractions and pre-algebraic operations. Geometry and problem-solving are also discussed. *A New York State Assessment is given in May.*

### Math 8 – 1 Unit of Study

Prepares students for high school mathematics by covering: reading and creating graphs; applying various operations to whole numbers, decimals, and fractions; problem-solving with equations and formulas; understanding patterns and sequences of numbers; geometry; ratio, proportion, and percent; statistics; and probability. *A New York State Assessment is given in May.*

### Integrated Algebra 9 & Integrated Algebra 10 – Regents - 1 Credit per year

These courses are designed for those students who wish to take the Integrated Algebra course in a two-year time frame. The emphasis of these two consecutive years of mathematics will be to develop an appreciation of mathematics and to develop skills in logic, geometry, algebra, probability, and problem solving. The Integrated Algebra Regents Exam will be given at the end of these two years. *All students must pass the Integrated Algebra Regents Exam (taken in grade 10) with a passing grade of 65% or higher to graduate from high school. Prerequisite: Completion of 8<sup>th</sup> Grade.*

### Integrated Algebra – 1 Credit - Regents – Grade Level 8, 9

This course will assist students in developing skills and processes to be applied using a variety of techniques to successfully solve problems in a variety of settings. Problem situations may result in all types of linear equations in one variable, quadratic functions with integral coefficients and roots as well as absolute value and exponential functions. Coordinate geometry will be integrated into the investigation of these functions allowing students to make connections between their analytical and geometrical representations. Problem situations resulting in systems of equations will also be presented. Alternative solution methods should be given equal value within the strategies used for problem solving. Measurement within a problem-solving context will include calculating rates using appropriate units and converting within measurement systems. Data analysis including measures of central tendency and visual representations of data will be studied. Students will solve problem situations requiring right triangle trigonometry. Elementary probability theory will be used to determine the probability of events including independent, dependent and mutually exclusive events. *The Integrated Algebra Regents Examination is given at the completion of this course. Prerequisite: Score of Level 3 or Level 4 on 8<sup>th</sup> Grade Mathematics Examination, class average of 90%, and recommendation of instructors. A Placement examination is given to 7<sup>th</sup> graders who may accelerate their 8<sup>th</sup> grade year.*

### Consumer Math – 1 credit – Grades 11-12

Students will review general math skills (add, subtract, multiply, divide, fractions, decimals, percents, etc.) and apply these skills in personal, consumer, and business math applications (checking, wages, taxes, buying, insurance, investment, credit, etc.). Problem-solving and critical thinking skills are also emphasized. **This class is used as the third credit of Mathematics required for graduation with a Regents diploma.**

### Geometry – Regents - 1 Credit – Grade 9-10

Within this course, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways, both formal and informal, that their conclusion follows logically from their hypothesis. This course is meant to employ an integrated approach to the study of geometric relationships. Integrating synthetic, transformational, and coordinate approaches to geometry, students will justify geometric relationships and properties of geometric figures. Congruence and similarity of triangles will be established using appropriate theorems. Transformations including rotations, reflections, translations, and glide reflections and coordinate geometry will be used to establish and verify geometric relationships. Properties of triangles, quadrilaterals, and circles should receive particular attention. It is intended that students will use the traditional tools of compass and straightedge as well as dynamic geometry software that models these tools more efficiently and accurately, to assist in these investigations. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from the other sciences. ***The Geometry Regents Examination is given at the completion of this course.*** **Prerequisite: Completion of Integrated Algebra.**

### Algebra 2 & Trigonometry – Regents - 1 Credit - Grade 11-12

While developing the algebraic techniques that will be required of those students that continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. The number system will be extended to include imaginary and complex numbers. Functions such as polynomial, absolute value, radical, trigonometric, exponential and logarithmic will be studied. Algebraic techniques will be developed to facilitate rewriting mathematical expressions into multiple equivalent forms. Problem situations requiring the use of trigonometric equations and identities will also be investigated. ***The Algebra 2 & Trigonometry Regents Examination is given at the completion of this course.*** **Prerequisite: Completion of Geometry.**

### Pre-Calculus – Regents - 1 Credit – Grade 11, 12

This is the fourth year of the mathematics program. The purpose of this course is to prepare students for college level mathematics courses, particularly calculus. Topics covered include functions; theory of equations; systems of numeration; sequences; exponents; set theory; limits; derivatives; integrals and their applications. **Prerequisite: Completion of Algebra 2 & Trigonometry.**

Advanced Placement Calculus – 1 Credit (Advanced Placement) – Grade 12 – Distance Learning (Franklinville)

This course is designed for the student who has demonstrated mastery of Algebra I, Geometry, Algebra II & Trigonometry, and Pre-Calculus and is willing to work at his/her potential for college-level credit. This course will cover: Functions, Limits and Continuity, Differentiation and Applications of Derivatives, Integration and Applications of Integration. The student will be expected to complete daily assignments and take the *AP Calculus AB* exam in mid-May. An approved graphing calculator is required. **Prerequisite: high school pre-calculus or equivalent.**

Elementary Statistics – 1/2 Credit (Dual Enrollment) – Grade 12 — Distance Learning (Frewsburg)

Students will investigate various topics in both descriptive and inferential statistics including measures of central tendency and spread, graphical analysis of data, probability, random sampling, correlation and regression, hypothesis testing and confidence intervals. Practical applications are emphasized throughout the course. A significant part of the course is taught using a software package such as Minitab. **Prerequisite: Completion of two years of high school Algebra and Geometry or Algebra 2 & Trigonometry. (MAT 1540 - 3 college credits)**

## **SCIENCE DEPARTMENT**

**All freshmen (9<sup>th</sup> graders) must pass one Science Regents Examination to graduate from high school.**

Life Science – 1 Unit of study - Grade 7

This course is designed and taught to accomplish the following goals: 1) To better understand how living things function and adapt to life in different environments; 2) To become aware of the roles that living things fill in natural ecosystems; 3) To understand the internal environments of living things, and how life functions are accomplished. This includes samples of all the kingdoms – Moneran, Protist, Fungi, Plant and Animal; 4) To understand what science is, what it studies, and how to practice science; 5) To better understand how life is perpetuated, and how genetic traits are inherited; and, 6) To meet the N.Y.S. standards for the 8<sup>th</sup> grade test and requirements for high school science courses. The following units are studied: 1) The Nature of Science, 2) The Cell, 3) Monerans, Protists, Fungi and Plants, 4) The Animal Kingdom, 5) Ecology, 6) Genetics and Evolution, and 7) The Human Body.

Physical Science - 1 Unit of study - Grade 8

This physical science class covers topics in chemistry and physics including atoms, chemical equations and reactions, physical forces, machines and energy. Using classroom experiments and an independent science project displayed in a school science setting, students learn the scientific method of inquiry. This course is the final year of a 4-year study of science (grades 5-8) preparing students for the *New York State Science Test with written and laboratory skills components given in May of 2012.*

### Earth Science – 1 Credit (Physical Setting) – Regents - Grade 9

Earth Science is the study of the Earth and its relationship to other bodies in space. It includes geology, oceanography, meteorology, and astronomy. Emphasis is placed on scientific inquiries into problems of the Earth Sciences. Earth Science is a Regents course with five class meetings per week plus two lab periods per week. The lab requires at least 1200 minutes of successful completion. ***The NYS Earth Science Regents Exam will be administered at the conclusion of the course in June. Prerequisite: Completion of 8<sup>th</sup> Grade.***

### Biology – 1 Credit (Living Environment) – Regents - Grade 10

This course will follow the NYS Regents syllabus. The major course sections are: 1) Unity and diversity among living things; 2) Maintenance in living things; 3) Reproduction and development; 4) Genetics (Mendelian and modern); 5) Evolution; 6) Ecology; 7) Biochemistry. There will be two laboratory sessions per week with an emphasis on a “hands on” performance of 1200 minutes of successful completion. ***The NYS Biology Regents Exam will be given at the conclusion of the course. Prerequisite: Completion of Earth Science.***

### Forensic Science - (Elective) - 1/2 credit - Grade 11-12 – (odd year)

The elective will be offered to students who have successfully completed Biology. The forensic science class content will include sections on: Fingerprinting, DNA, Hairs and Fibers, Forensic Serology (blood), Drugs, And Entomology. The class will be a combination of lecture, online modules, research, and hands on labs. The course will be graded on class work, quizzes & tests, research projects, practical evaluation (crime scene analysis), and a final project to be presented at science fair. ***Prerequisite: Completion of Biology.***

### Astronomy – (Elective) - 1/2 credit – Grade 11-12 – (even year)

Students will learn about the universe while learning the scientific way of looking at the world and life. Students will learn that science is a process and will learn the connection between theory and observation. Students will demonstrate their knowledge by observations of the sky and by accessing “The Starry Night” program. There are four required night viewings in correlation with the course. ***Prerequisite: Completion of Earth Science with an 85% or above and an 80% or higher on the Earth Science Regents.***

### Chemistry – 1 Credit (Physical Setting) – Regents - Grade Levels 11-12

Chemistry is described as the branch of science that deals with the composition, structure, and changes of matter. Chemistry is a lab class with students meeting two to three times per week to fulfill the lab requirement as well as every day for the actual class. Students must complete 1200 minutes of laboratory time to be eligible to take the Regents exam. Chemistry is a regents course that is fast paced and covers a lot of material. ***The NYS Chemistry Regents Exam will be administered at the conclusion of the course. Prerequisite: Chemistry is highly math based and students should have passed trigonometry. Administrative and instructor approval is needed to override all prerequisites.***

### Physics – 1 Credit (Physical Setting) – Regents - Grade 11 – 12

Physics is the branch of science that deals with the interaction of matter and energy in the field of mechanics, heat, waves, optics, electricity, magnetism, atomic structure, and nuclear phenomena. It is a Regents course that is highly math based and requires students to have completed trigonometry before taking physics. Students should also have passed the chemistry Regents exam before taking physics. Physics has a lab component that requires students to meet 1200 minutes of lab time in order to be eligible for the Regents exam. . ***The NYS Physics Regents Exam will be administered at the conclusion of the course. Prerequisite: Completion of Chemistry and Trigonometry.***

### Advanced Placement Chemistry – 1 Credit (Advanced Placement) – Grade 12

A.P. Chemistry is a college chemistry class. The class is challenging both in the difficulty of work and the amount of work. Students scoring a four or five on the AP exam are eligible to receive four college credits in introductory chemistry from most colleges. Students taking A.P. chemistry are required to complete a summer work packet to prepare them for the course. ***The Advanced Placement Chemistry Examination is given in May. Prerequisites to AP chemistry include scoring above an 82% on the regents exam, maintaining a 90% or better average in regents chemistry, and having passed the trigonometry regents exam with a 70% or better.***

## FOREIGN LANGUAGE DEPARTMENT

### Spanish IA - 1 unit of study – Grade 7

Students will be introduced to the Spanish language through reading and story-telling. They will be listening to, drawing and re-telling stories. Their acquisition of Spanish will be greatly influenced by how much they participate in class. They will also be introduced to the pronunciation and intonation patterns and the different countries that speak Spanish.

### Spanish IB - 1 unit of study – Regents - Grade 8

Students will continue to develop proficiency in the four basic skills: listening, speaking, reading and writing. The students will continue to listen to, draw and re-tell stories in class. Their pronunciation will improve and they will develop a great deal more vocabulary. As they successfully complete this level they will earn one high school credit in Spanish, which is required for graduation.

### Spanish II – Regents - Grade 9 - 1 Credit

Students will continue to develop proficiency in the four basic skills: listening, speaking, reading, and writing through the communicative functions of inviting, socializing, asking for assistance, giving opinions and advice, and expressing necessity and obligation. The emphasis is on communication in culturally authentic situations through a variety of activities. Upon completion of the course, the Spanish student is expected to comprehend short conversations on simple topics in every day situations; be able to initiate and sustain a conversation; comprehend simple narrative and descriptive authentic materials and texts within a familiar context; show understanding of cultures as systems of values associated with certain patterns of behavior in our own culture as well as in the Spanish Culture.

### Spanish III – Regents - Grade 10 - 1 Credit

Students at this level will refine their communicative and linguistic proficiencies. Communicative functions dealing with socializing, expression of attitudes, opinions, feelings, and emotions, requesting the exchange of information and persuasion will be practiced in depth. Upon completion of this course, the Spanish student is expected to understand standard speech delivered by a native speaker unaccustomed to dealing with foreigners, to handle sufficiently most communicative situations, to understand most factual information from a wide variety of sources, to compose unified and organized texts on everyday topics, and to show more in-depth understanding of Spanish culture. Testing encompasses speaking, listening, reading and writing. ***The NYS Regents Comprehensive Examination in Spanish is given at the completion of this course.***

#### Spanish IV- Grade 11/12 - 1 Credit (Elective)

At this level, the student is expected to have mastered oral, reading, grammar, and writing skills in such a manner that requirements for the NYS Regents Examination have been successfully completed. The student now concentrates on further developing those skills through reading novels, composing short stories, and presenting oral and written reports in Spanish. There will also be the opportunity to do research into various aspects of Spanish culture.

#### Spanish V – Grade12 – 1 Credit (Distance Learning – Genesee Valley) – Dual Enrollment

This class is offered via Distance Learning and carries 3 college credits from the University of Albany. This course focuses on the active development of listening and reading comprehension, cultural knowledge, and speaking and writing skills. Cultural topics include: Types and Stereotypes, the Human Community, and Views on Death.

#### Latin I – Grade 12 – 1 Credit – (Distance Learning – Franklinville) - Elective

In an age when the need to communicate effectively is critical, all students can benefit from the study of Latin. The course will introduce students to the rudiments of Latin grammatical concepts, morphology, syntax, vocabulary and etymology, enabling students to read simple narratives in adapted and annotated original Latin texts. While oral/aural skills of pronunciation and reading aloud will be included and developed, the emphasis of the course will be on close and careful reading and translation of Latin into English.

#### American Sign Language – 1 Credit – (Distance Learning - Clymer) - Elective

This course will help students to gain insight into the world of American Sign Language (ASL) and the Deaf culture. Through a positive, fun, and effective learning environment, students will begin to gain a successful second language. Emphasis is on a communicative rather than a linguistic approach to ASL; this course emphasizes that no spoken English be used when modeling ASL. Upon completion, students will be able to: Identify and accurately produce 500 ASL vocabulary items, Provide an explanation of the cultural aspects of ASL, and demonstrate a beginning conversational level of expressive fluency when using ASL. Course includes video presentations, group activities, role-playing, individual and group practice, lecture, review, discussion, teacher modeling, and assigned work outside the classroom.

## ART DEPARTMENT

### 7 th Grade Art

Ten-week course designed to build and increase the student's knowledge of the **elements and principles of design**. **A continued emphasis on critical judgement is accompanied by an increased focus on art from other cultures.**

### 8 th Grade Art

Ten week course designed to expand the student's knowledge, abilities and critical judgement: to introduce new mediums and skills: and to emphasize **art history**.

### Studio in Art – (Elective) - 1 Credit – Grade Level 9, 10, 11, 12 (preferably 9 th)

This full year course is the basis upon which all additional studio classes are built. **Art History** is incorporated in to each unit to relate particular projects to those done in the past. Design is concentrated on by exploration of elements and principles. The course offers both aesthetic and technical experiences so that the student will be able to understand and appreciate the art form, acquire dexterity, sensitivity and mastery of technique.

- \* **Introduction to design**
- \* **Introduction to drawing**
- \* **Introduction to painting**
- \* **Introduction to sculpture**
- \* **Introduction to printmaking**
- \* **Introduction to graphic design**

### Drawing – (Elective) - 1/2 Credit – Grade Levels 10, 11, 12

This 20-week course focuses on **basic drawing** techniques. Students will draw basic life forms, still life & portraits using various art media for drawing. ***Pre-requisite of Studio Art.***

### Painting – (Elective) - 1/2 credit – Grades 10, 11, 12

This 20-week course focuses on basic painting techniques. Students will begin with abstract paintings, basic form painting, still life & landscapes. **(watercolor & acrylics)**. **Art History is incorporated with examples of Master works.** ***Pre-requisite of Studio Art.***

### Ceramics – (Elective) - 1/2 credit – Grades 10 – 12

Ceramics (20 weeks) is an introduction to various techniques used in **clay building and glazing**. Students will use coil, slab, drape, push & pull and the pottery wheel to produce various projects. **Art History is incorporated with examples of Master works.** ***Pre-requisite of Studio Art.***

Sculpture – (Elective) - 1/2 credit – Grades 10 – 12

This 20-week course provides an introduction to various techniques used in sculpture. Students begin with wire linear sculpture and progress to other mediums such as found objects, clay, cardboard, and plaster. **Art History is incorporated with examples of Master works.**

***Prerequisite of Studio Art.***

Advertising – (Elective) - 1/2 credit – Grades 10, 11, 12

This 20-week course provides an introduction to the history of advertising. Students will be introduced to graphic design with a strong emphasis on **elements & principles of design.**

Students will explore the design process from thumbnail sketches to the actual printed piece.

***Pre-requisite of Studio Art.***

- **Introduction to desktop publishing**
  - **Quark Xpress**
- **Introduction to graphic design**
  - **logo design, letter head, envelope, business card**
  - **black & white newspaper ad, one page advertisement (magazine)**
  - **package design, brochure, program, menu**

Advanced Advertising – (Elective) - 1/2 credit – Grades 10, 11 & 12

Using the skills acquired in advertising, students will be involved with some actual jobs pertaining to the school and the community. ***Pre-requisite of Studio Art and Advertising.***

Crafts – (Elective) - 1 credit – Grades 11 & 12 (Seniors priority)

This course is a **fun hands-on experience.** Students are exposed to various **crafts from other cultures.**

Independent Art – 1/2 to 1 credit – Grades 11 & 12

This course is offered to those **planning on pursuing a career in art.** This class provides to opportunity to develop and polish the skills required to continue in the art field. In this course students will put together a portfolio if needed. Students taking this course must be independent workers. **(must be approved by the instructor).**

## CHORAL MUSIC DEPARTMENT

The Choir Program at Sherman Central School sets forth four goals for all its members: (1) Students will develop an awareness of music by perceiving, performing, and responding to a variety of types of music. (2) Students will develop an understanding of music as a contextualized piece of history and culture. (3) Students will develop the ability to organize and express ideas, feelings, and sounds through performing and composing music. (4) Students will develop the knowledge and skill necessary to formulate, apply, and communicate criteria for evaluating music compositions and performances.

As a member of our choral program, students are expected to be a credit to the choir, school, and community. Because we are committed to excellence, we must have a common high standard. Students are therefore required to participate in a meaningful way in rehearsals. Students are also required to attend and participate in scheduled concerts per school year. Opportunities exist for NYSSMA and CCMTA (All-County) events, competitions, and festivals.

- Grading in choir is as follows:

- Rehearsals (Daily Points) = 50% of final grade
- Performance (Attendance at required concerts) = 30%
  - For terms that do not include concerts, this portion of the grade will be a brief exam at the end of the quarter.
- Miscellaneous Work (Theory exercises, etc.) = 20%

Extra Credit available for students who participate in NYSSMA and CCMTA events.

### Jr. High Choir – 1/2 Unit each year - Grades 7 & 8

The Jr. High Choir is a large, non-audition performing choir. The majority of choral literature performed is in two or three parts. Students are exposed to a wide variety of genres in choral literature. Areas of study include music theory, music history, sight-reading, ear training, proper vocal care and technique, and performance in a large ensemble. Solo opportunities will be available through audition. Two concerts are performed a year including a Winter Concert and a Spring Concert.

### Sr. High Mixed Choir – 1/2 Credit - Grades 9 – 12

The Sr. High Choir is a non-audition mixed choir. The majority of choral literature performed is in three parts with occasional four-part harmony. Pieces are performed both accompanied and *a cappella*. Students continue in the Sr. High program to experience a variety of genres of choral music. Skills in music theory, music history, sight-reading, ear training, and proper vocal technique and care are extended from Jr. High. Solo opportunities are available in some pieces through an audition. Three concerts are performed a year including a Winter Concert, a Pops Concert, and a Spring Concert.

#### Women's Ensemble – 1/2 Credit - Grades 9 – 12

The Women's Ensemble is a choir for female students who wish to further their choral experiences beyond the Mixed Choir. Students are encouraged to choose this course as a supplementary course if possible and to not take it *instead* of Mixed Choir. The majority of choral literature performed is in three parts and are a mix of accompanied and *a cappella* pieces. The Women's Ensemble will perform in the Sr. High Winter and Spring Concerts.

## **INSTRUMENTAL MUSIC DEPARTMENT**

#### Junior Band- 1 unit of study – Grades 7-8

This course offers fundamental training on a student's instrument in an ensemble setting. Students are expected to develop ensemble performance skills including tuning, timing, and dynamics. Students may be offered opportunities to study a secondary instrument as opportunity arises. Performances will be scheduled with mandatory participation as part of this class's requirement. This course is a year-long commitment to the exploration of a musical instrument. At the beginning of the school year, students who join will have two weeks to decide whether they will commit to this course. Thereafter, students are expected to complete this course for its full duration. Students gain leadership and self-developmental skills through performance, group activity, individual expression, creativity and non-mandatory competition opportunities.

#### Senior Band (Elective) - 1 Credit- Grades 9-12

This course will explore various styles of music in the ensemble setting. Students are expected to acquire and demonstrate a high level of mastery on their primary instrument throughout the four years that they are involved in this band. Students may be offered opportunities to study a secondary instrument as opportunity arises. Advanced concepts of music will be introduced, studied, and learned. Performances will be scheduled with mandatory participation as part of this class's requirement. This course is a year-long commitment to the advanced study of a musical instrument. At the beginning of the school year, students who join will have two weeks to decide whether they will commit to this course. Thereafter, students are expected to complete this course for its full duration. Students gain leadership and self-developmental skills through performance, group activity, individual expression, creativity and non-mandatory competition.

#### Songwriting 101 – 1 credit – Grades 10-12 (Elective)

Students WILL sing. Your voice quality is not the point, but you MUST be willing to sing, alone, in front of others and in a recording situation. Students will become proficient on guitar and piano, not as a solo performance instrument, but as a songwriting tool and accompaniment instrument. Song styles and form will be studied. Other disciplines such as creative writing, poetry and compositional techniques will also be incorporated. Students will learn to use performance and recording hardware (mics, soundboards, speakers, etc.) as well as technology and technique in using this equipment. Among other details, students will be required to write and record a full length CD of original and cover songs, appearances on the recordings of all other members of the class, and production credit in some way on all other students' recordings.

#### History of Rock and Roll (Elective) – 1 Credit – (Distance Learning – Dunkirk)

History of Music: 1950 - Present. This course covers the history of music from 1950 to present including but not limited to Rock, Jazz, Theatre and Modern Classics. The class is open to all students with no pre-requisite class.

#### Music Theory – (Dual Enrollment) - 1 Credit – Grade Levels 11-12

This course will introduce basic and more advanced concepts in music theory, including reading and writing music, identifying interval and chords values, scale and modal studies, composition, analysis and counterpoint. This is a rigorous course in the subject and while there is no pre-requisite, should be taken with serious intent and interest. \* **Course provides 3 JCC Credits for Music Theory I (MUS 1570) \***

#### Marching Band- Extracurricular- Grades 6-12

This activity is an art for that incorporates music, theater, coordination, dance, art, marching and athletics. The Marching Band performs at various parades throughout the year, as well as pep assemblies and football games. An auxiliary unit (color guard/drill team) is utilized as a visual compliment and is available to participate in as well. Students may be offered opportunities to study a secondary instrument as needed.

#### Folk/Jazz Ensembles – Extra Curricular – Grades 6-12

These ensembles are formed based on student interest and availability, and offer an opportunity to explore world music, folk, and jazz. Each ensemble is formed to meet the desires of the students involved. Students are offered the opportunity to study secondary instruments. Improvisation, chord progression study, and key recognition are learned.

## **COMPUTER & BUSINESS EDUCATION DEPARTMENT**

#### Computers – Grade7 & 8 – 10 weeks each year

This course is designed to introduce Microsoft Office products. Students will learn to use Microsoft Word, Excel, and PowerPoint. We will cover skills that will be useful in school,

career, and your life. The technology skills necessary to compete in school and in work will be enhanced through increased knowledge and understanding of the applications covered in class. Below is a list of the topics we hope to cover during our time together. Strengthening keyboarding skills and discussion of Internet use and safety will also be provided during this class.

- ✓ To create a spreadsheets and graphs in Excel.
- ✓ To create and format various documents such as cover letter, resume and research paper using Word.
- ✓ Functionality of Word and applications for a variety of word-processing features.
- ✓ To create PowerPoint slides and presentations for school.
- ✓ PowerPoint functionality including animation, sound, backgrounds, changing and inserting pictures, etc.
- ✓ Increasing knowledge of the keyboard and perfect typing ability.
- ✓ Projects based on these applications using Word, Excel and PowerPoint that are cross-curricular with 8<sup>th</sup> grade teachers.

#### Career and Financial Management – 1/2 credit – Grades 11 – 12

This course is **required** as part of every graduating senior's Financial Literacy Competence. Course topics to be covered include basic personal finance; career planning and selection; job skills, expectations and terminology; as well as budgeting and preparing for retirement. Students will prepare a cover letter, resume, reference list and participate in a mock interview. Students will also create a personal budget and retirement savings plan.

#### Business Law – (Elective) - 1 Credit – Grades 11-12 – (Distance Learning – Gowanda)

A 1-unit course, which may be used as a component of a Business/Marketing Education sequence, and/or as a fifth unit of Social Studies when a student has also earned a vocational sequence. Applications of the business laws, as they affect the individual, are featured; the relationship of the law to an individual's personal, as well as occupational life, is emphasized.

#### Sports and Entertainment Marketing – (Elective) - 1 Credit – (Distance Learning – Gowanda)

This course focuses on the principles of marketing and how they apply to the world of sports and entertainment. Core concepts such as marketing mix, functions of marketing, market segmentation and channels of distribution are examined within the realm of sports and entertainment, market research, sponsorship and endorsements, product licensing and the use of sports marketing. The sales process, distribution of entertainment, restaurant marketing and visual merchandising are examined under the special nature of entertainment marketing. Together, the Sports and Entertainment Marketing course combines specific and meaningful applications of existing marketing principles.

#### Principles of Financial Accounting – 1/2 credit (Dual Enrollment) – Grades 11/12 – (Distance Learning – Falconer)

Students will gain a broad view of accounting's role in satisfying society's need for financial information. In an overview of the accounting profession, students will understand generally accepted accounting principles underlying the design, integrity, and effectiveness of accounting information systems. Providing relevant financial statements for the decision maker and the use of computers to generate financial information are outlined. **\*\*JCC placement test required with an 80+ or higher on the Reading portion. (BUS 1510 – 4 college credits)**

Principles of Managerial Accounting- 1/2 Credit - (Dual Enrollment) – Grades 11/12 – (Distance Learning - Falconer)

Students will demonstrate basic decision making and analyzing skills in management accounting. Financing a business through debt or capital structures, analysis of cash flows, financial ratios, manufacturing costs, budgeting, cost-volume-profit analysis, and current managerial accounting topics are covered. ***Successful completion of Financial Accounting is required to complete Managerial Accounting second semester. (BUS 1520 – 4 college credits)***

## TECHNOLOGY EDUCATION DEPARTMENT

Architectural Drawing – 1 credit (Elective) – Grades 9 – 12 (even year)

This course allows students to draw a set of plans for a residential house. Topics covered are: design considerations, individual room plans, floor plans, elevation views, foundation plans, site plans, typical wall sections, structural plans, stair plans, electrical plans and plumbing plans.

Drawing and Design for Production – 1 Credit (Elective) – Grades 9, 10, 11, 12 (odd year)

This course emphasizes creative thinking, decision-making and problem solving as students complete projects, which introduce them to drafting as a universal language. In addition, students will be required to convert their drawings into three dimensional models or prototypes. This course satisfies the Art/Music requirement or can be used in the Technology Education sequence.

Computer Aided Drafting and Design (CADD)/Technical Drawing – 1 Credit (Elective) – Grades 9 – 12 (every year)

CADD/Technical Drawing consists of topics designed to help students learn the basic concepts of engineering drawings. Topics covered are: role of drafting, tools and techniques, lettering, orthographic projection drawings, dimensioning and pictorial drawings. The use of computers with Auto CADD software is also utilized in the Computer Lab.

Material Processing & Construction – 1 credit (Elective) – Grades 9-12 (every year)

Material Processing is essentially woodworking. Topics covered are: tool safety and use, materials, joinery, assembly/fastening techniques, finishing processes and any other related

topics necessary for them to construct a project from wood. Construction students learn about common building techniques for residential structures. Topics include: electrical wiring, building materials, tool safety and use, construction terminology and techniques and building layout. Students will build a storage shed, work on concrete and/or build related structures.

#### Manufacturing Technology - 1 credit (Elective) - Grades 9 - 12 (every year)

This course is designed to teach students core production skills of the manufacturing industry. Students will study about local industries and visit a local factory every three weeks. Meetings with human resource managers, engineers, and production workers will expose students to what employers expect of individuals entering the manufacturing industry. Emphasis will be on portable skills; communication skills; information technology; math and science skills related to the industry; teamwork; problem solving; leadership; and production systems, materials and processes.

#### Transportation & Energy/How It Works (Elective) – 1 credit – Grades 9 – 12 every year

This course teaches students about the three main divisions of moving goods or people; land, water or air. Topics covered are map reading/trip planning, internal combustion engines, automobile systems, trains, other transportation systems, and air travel and water transportation. This course covers the types of energy, sources of energy and forms of energy our society uses to do work. Related topics include energy conservation in the home, residential wiring, generation of electrical power, insulation types and use, internal combustion engines, nuclear power, geothermal energy, gravitational energy, solar energy and chemical energy.

## **AGRICULTURAL EDUCATION DEPARTMENT**

The Agriculture program at Sherman Central School has a rich history of excellence in agriculture education. The field of Agriculture reaches far beyond the family farm and this coursework is an excellent stepping-stone in helping students identify their talents and exposes them to careers choices. In addition, FFA offers a next step in leadership and career training. The Sherman FFA Chapter has had numerous award winners who now have exciting careers in the field of Agriculture.

**\*\*NOTE: Any Agriculture class can be used as the required third credit in science\*\***

#### Horticulture - 1 credit – Grades 9-12 (odd year)

This course is designed to educate students in the areas of plant science, propagation, fertilization, greenhouse management, pest management and plant identification. Students will

gain “hands-on” experiences through container gardening, greenhouse planting and management, floral designs and landscape design and installation.

Floriculture – 1/2 credit – Grades 9 – 12 (even year)

This course covers flowers, designs and projects, and operating a greenhouse business. Students learn basic floral design using fresh and silk flowers. Class projects also include holiday designs and interior decorating ideas. In addition, students operate a working greenhouse business. Poinsettias are grown and sold at Christmas and bedding plants are produced for spring sales.

Landscaping and Greenhouse Management – 1/2 credit – Grades 9 – 12 (even year)

This course offers students an overview of this growing industry. Students will receive instruction in landscape design, installation and management. Students will have the opportunity to create their own landscape designs. In addition, students operate a working greenhouse business. Students will be starting flowers and vegetables from seed, creating spring hanging baskets, and growing Easter lilies for spring sales.

Agricultural Mechanics – 1 credit – Grades 9 – 12

This course offers a basic understanding of the skills needed by today’s agricultural engineers and mechanics. Students learn basic skills in electrical wiring, plumbing, welding, small gasoline engines, masonry and construction. Students utilize skills through “hands-on” applications where they design and build projects and learn safe machine shop management.

Pre-Vet Technology – 1 credit – Grades 9 – 12 (odd year)

This course emphasizes anatomy and physiology including basic cell biology and systems of the body. Animal nutrition, diseases, parasites and surgeries will also be examined. There will be units that focus on small animals such as breed identification, care management, and common ailments. Students learn how an animal’s body works and what is necessary for healthy growth. Field trips, guest speakers, and class activities enable students to utilize “hands-on” skills to become future leaders in the field of veterinary science.

Large Animal Science – 1 credit – Grades 9 – 12 (even year)

This course emphasizes the study of animal reproduction, nutrition, health and management of dairy cattle, beef cattle, hogs, sheep, goats and horses. Soil and plant science in relation to animal health is also stressed. Students learn how an animal’s body works to utilize feeds and grow healthy. Field trips, guest speakers, and class activities enable students to utilize “hands-on” skills and become future leaders in the field of animal science.

Conservation, Forestry, and Wildlife – 1 credit – Grades 9 – 12

This course is designed to develop an understanding for the environment and natural resources of North America. Students will learn to identify and understand the value of wildlife, forestry,

water systems, aquatic life, forest fires, and soils. Most importantly, students will learn best practices of conservation as it relates to their own futures. There will be a special focus with guest speakers regarding the career fields of forestry and wildlife.

#### Future Farmers of America – Extracurricular – Grades 7 – 12 – every year

This course is offered to students who have excelled in FFA career development events and leadership in FFA. Students will use this course to work on career development events, chapter activities, and officer obligations.

## ***HEALTH & PHYSICAL EDUCATION DEPARTMENT***

#### Health 8 – 1 Unit – Grade 8

All students are required to have one unit of health for the middle school years (6-8). Topics to be discussed include hygiene, health and fitness and other topics as determined by the instructor. Current topics that are plaguing today's adolescents will also be discussed.

#### Health – 1/2 Credit – Grade 9

**The High School Health course is a *requirement* for graduation.** This course meets for one semester. A major goal of this course is to move students toward “health literacy”. Health literacy is the capacity of individuals to obtain, interpret, and understand basic health information and services in ways that promote health. **Also incorporated into the curriculum is a *parenting component*.** One of the most important jobs many of our students will have when they leave high school is that of being a parent. We do not have to look far to see why this type of education is critical. We need to address the rising number of child abuse and neglect cases, domestic violence, teen pregnancy, parental involvement, mental health problems and do a better job nurturing our children in order that they may reach their potential. Students will gain knowledge and skills to become effective parents. There is a long-term project on an adolescent risk behavior of the students' choice.

#### Food and Nutrition - 1 credit - Grades 9 - 12

Students will develop an understanding of basic nutritional concepts through instruction in nutritional requirements. Students will also be required to implement a personal nutrition plan based on their own body style and characteristics. Students will also explore careers and

employment opportunities in the area of food and nutrition and compare these careers to personal abilities and characteristics.

Fitness for Life – 1/2 credit – Grades 9 - 12

This course can be used in place of traditional gym. Students will be required to create and implement a Personal Fitness Plan. The fitness center will be utilized for required cardio component and other concepts to be determined by instructor.

Jr./Sr. High Physical Education – 1/2 credit – Grades 7-12

Students participate in modules that are required by the State education Department. This course is designed to promote a balance of fitness, wellness and performance based activities. In this environment students will be engaged in a variety of individual lifetime activities as well as development related to team sports. Students are required to dress appropriately and maintain good attendance. Grades will be based on *class participation, attitude, skills, test scores and attendance*.

## **ADDITIONAL ELECTIVE COURSES**

Career Explorations – Grade 7

Students will explore careers and the skills needed to succeed in the world of work. Weekly lessons introduce students to the 16 Career Clusters along with the internet-based program, Career Cruising. Students will learn how to make their career plans and begin to understand how what they learn in school will benefit them in the future. Study skill modules will also be implemented to prepare them to take tests, prepare study guides and take notes.

Co-ed Connection – Grades 7-12

Students will be given the opportunity to work and mentor with the Pre-k through 6 grade students. Students will be monitored and mentored by an Elementary Faculty Staff member and must be willing to actively participate with the students. The Faculty member and the student at the beginning of the school year base credit on successful completion of the goals that are established.

Driver Education – (Elective) - 1/2 credit – Grades 10, 11, 12

Driver education is concerned with exposing the potential driver to all facets of driving. This is accomplished through classroom instruction as well as driving instruction. Automotive skills and basic rules and regulations will be taught. Students will be taught to formulate correct responses, drive defensively and develop proper attitudes. Through experiences of driving and through skills and knowledge disseminated, students should become proficient drivers. Seniors who have not taken the course are given preference. **(Students must be 16 years old prior to each semester the course is offered).**

## **CAREER AND TECHNICAL EDUCATION (CTE)** **HEWES CENTER, ASHVILLE**

**AUTO BODY REPAIR AND REFINISHING TECHNOLOGY** In this challenging and rewarding program, students learn to operate the tools and equipment used in the field of Auto Body Repair. Students develop skills in straightening, aligning, replacing, filing, welding, cutting, painting and buffing plastics, aluminum, steel and other composite fiberglass materials.

**AUTOMOTIVE TECHNOLOGY** This program allows a challenging diagnosis and repair curriculum with hands-on experience on modern automobiles covering the most high tech systems. Successful students may complete an internship at a dealership during their senior year and may receive Advance Placement SUNY college credit.

**CONSERVATION/NATURAL RESOURCE MANAGEMENT** This program is designed to provide students with basic knowledge and hands-on skills leading to employment and educational opportunities in the areas of conservation, landscape management, equipment operation, and a variety of other outdoor careers. General areas of study include wildlife studies, forestry, landscape and greenhouse operations, plant and soil sciences, and equipment operation and maintenance.

**CONSTRUCTION TECHNOLOGY** Students will acquire skills for entry-level work or post-secondary education including rough and finished carpentry, masonry, plumbing, heating and electrical. Students also receive instruction in construction procedures such as the use of power and specialized tools and equipment, footings and foundations, framing, roofing, siding, stair construction, interior and exterior finishing, blueprint reading and estimating.

**COSMETOLOGY** This program offers both theory and practical experience necessary to be employed as an entry-level Cosmetologist. Safety, professional image, decontamination, anatomy, haircutting, perming, chemical hair relaxing, hair coloring and styling, nail and skin care, makeup, and salon management are topics covered in the curriculum. Second year students participate in a hands-on clinic

and those completing the required 1000 practicum hours will be prepared for the New York State Licensing Exam.

**CRIMINAL JUSTICE** Students in this program are provided a general background in the history of Criminal Justice and will receive instruction pertaining to legal terminology and practical application of communication skills necessary for a career in law enforcement at the private, state and federal levels. Students will study case law as it applies to constitutional issues, law enforcement, courts and corrections and they will participate in mock trials and scenarios. Students receive certification in CPR/First Aid and in the New York State Eight-Hour Security Guard Program.

**CULINARY ARTS** The essential components of the food service industry presented include menu planning, food preparation, conversion of recipes, equipment identification, baking, cost analysis, dining room service as well as banquet and buffet skills. Culinary principles with emphasis on soups, sauces, and stocks are practiced. Training in sanitation, hazard analysis critical control points (CACCP) principles and kitchen safety is offered. Students are prepared for the future employment and/or enrollment at post-secondary schools specializing in the culinary industry.

**DIESEL/HEAVY EQUIPMENT REPAIR** Students in this program learn and practice diagnostic procedures, disassembly and assembly of engines, fuel systems, clutches, transmissions, drivelines and differentials, and all aspects of diesel engine operation. Precision measuring and specific use of tools for component repair are taught throughout the program. Brake, suspension and electrical systems are also incorporated into the program. Oxyacetylene and electric arc welding are also taught.

**GRAPHIC TECHNOLOGY** Students will receive instruction in commercial art, desktop publishing, ad design, sign/computer-aided sign making and computer graphics. This course prepares students for the fields of commercial art, computer graphics, photography, electronic media, and for further education in Commercial Graphics and design.

**HEALTH CAREERS** This program provides students with the necessary skills to take the Certified Nurses Aid test. Students will be eligible for certification in CPR/AED and first Aid from the American Red Cross. The course will consist of classroom theory/application, trips to local health care facilities, day care centers, and will include a required internship.

**INFORMATION TECHNOLOGY/COMPUTER SYSTEMS** Students will receive training in Computer Science theory and introductory level computer networking. First year students focus on hardware, software, and operating systems, while second year students focus on networking. Students will become adept at manufacturing/electronic assembly techniques associated with the electronics industry. This includes soldering, PCB repair and wire harness assembly. Students will prepare for careers in the information technology industry and will complete the Cisco Networking Academy, Comptia Network + or Comptia i-net training programs. Instruction will also prepare students to take industry-recognized Comptia A+ and Net+ exams as well as the four major Microsoft Office User Specialist (MOUS) competency tests.

**MOTORSPORTS FABRICATION** Students completing this course will be able to safely set up and operate lathes, mills, grinders, drill presses, band saws, MIG welders, ARC welders, tubing bender, oxy-fuel torches, plasma cutters, CNC mills and lathes, and engine boring machines. Instruction will include use of measuring tools, CAD-CAM, blueprint reading and shop math. This course is recommended for students interested in pursuing a career in industrial or mechanical engineering, welding or machining.

Although there are no prerequisites for this class, a background in math is helpful. Students passing this course are eligible to receive 13 ECC college credits.

**SMALL ANIMAL SCIENCE** This course teaches specialized and advanced skills in areas of veterinary assistance, the care and handling of animals in a laboratory or veterinary setting, dog grooming, kennel or pet shop management. Students interested in pre-veterinary medicine or veterinary science should consider this program.

**DISTRIBUTION OF INTEGRATED CREDIT THROUGH CTE PROGRAMS**

**Junior Year**

2.5 Units CTE Program  
.5 Unit CTE Math  
.5 Unit CTE Science  
.5 Unit Career & Financial Mgmt.  
4 Units of credit

**Senior Year**

1.5 Units CTE Program  
1 Unit CTE English  
.5 Unit CTE Math  
.5 Unit CTE Science  
.5 Unit Career & Financial Mgmt  
4 Units of credit