

## **INTRODUCTION**

The Conneaut School District faculty and administration would like to take this opportunity to stress the importance of proper course selection for the school year. Your high school transcript will be with you for the rest of your life. Employers, colleges, apprenticeship programs, or technical training institutions usually request to see high school transcripts. They would like to see if you've prepared yourself for the future.

Sometimes choosing your courses is difficult. The best policy to follow when selecting courses is to take the ones that are challenging but within your capabilities. Also, follow your interests. Students usually find jobs in fields where they feel comfortable.

If you have any questions, please ask the guidance counselor, the assistant principal, or the principal.

**\*last update 3/19/12**

**GRADUATION REQUIREMENTS**

English	4 credits (one course per year)
Math	4 credits (one course per year)
Science	3 credits
History	3 credits
Physical Education	2 credits (P.E. must be taken each year)
Health	1 credit (to be taken in 9 <sup>th</sup> and 11 <sup>th</sup> grade)
Computer	1 credit
Graduation Project	½ credit
Electives	Students will select additional courses from among those approved for credit by the school district, including approved vocational education courses.

**Number of credits required for graduation: 26.5 credits**

\*Some courses in this catalog are currently under curricular revision and are pending board approval

### **9<sup>th</sup> GRADE GENERAL ENGLISH**

English 9 General is designed for the student who is not planning to attend college but will enter the workforce upon graduation or seek no-college post-secondary training. The areas covered

include reading, writing, speaking and listening as aligned with the Reading, Writing, Speaking, and Listening Pennsylvania Academic Standards 1.1 to 1.8. The reading selections include a survey of all literary genres. Vocabulary is incorporated through a variety of methods. Writing includes poems, stories, narrative, informational, and persuasive pieces. Students are expected to develop discussion and note-taking skills. In addition, students must prepare and deliver two formal speeches.

### **9<sup>th</sup> GRADE COLLEGE PREP ENGLISH**

English 9 College Prep is designed for the student planning to attend college. The areas covered include reading, writing, speaking, and listening as aligned with the Reading, Writing, Speaking, and Listening Pennsylvania Academic Standards 1.1 to 1.8. The reading selections include a survey of all literary genres. Vocabulary is incorporated through a variety of methods. Writing includes poems, stories, narrative, information and persuasive pieces. Students are expected to develop college-level discussion, research, and note-taking skills. In addition, students must prepare and deliver two formal speeches.

This course is designed to be academically challenging and will receive a weighted grade. The district recommends that this course be taken only by students proficient in language arts.

### **10<sup>th</sup> GRADE GENERAL ENGLISH**

English 10 General is designed for the student who is not planning to attend college but will enter the workforce upon graduation or seek no-college post-secondary training. The areas covered include reading, writing, speaking and listening as aligned with the Reading, Writing, Speaking, and Listening Pennsylvania Academic Standards 1.1 to 1.8. The reading selections emphasize word literature. Vocabulary is incorporated through a variety of methods. Writing includes a reinforcement of basic narrative, informational, and persuasive pieces with an emphasis on the composition format. Students are expected to develop discussion and note-taking skills. In addition, students must prepare and deliver two formal speeches.

### **10<sup>th</sup> GRADE COLLEGE PREP ENGLISH**

English 10 College Prep is designed for the student planning to attend college. The areas covered include reading, writing, speaking, and listening as aligned with the Reading, Writing, Speaking, and Listening Pennsylvania Academic Standards 1.1 to 1.8. The reading selections emphasize world literature. Vocabulary is incorporated through a variety of methods. Writing includes poems, stories, narrative, information and persuasive pieces. Students are expected to develop college-level discussion, research, and note-taking skills. In addition, students must prepare and deliver two formal speeches.

This course is designed to be academically challenging and will receive a weighted grade. The district recommends that this course be taken only by students proficient in language arts.

### **11<sup>th</sup> GRADE GENERAL ENGLISH**

English 11 General is designed for the student who is not planning to attend college but will enter the workforce upon graduation or seek no-college post-secondary training. The areas covered include reading, writing, speaking and listening as aligned with the Reading, Writing,

Speaking, and Listening Pennsylvania Academic Standards 1.1 to 1.8. The reading emphasizes American literature. Vocabulary is incorporated through a variety of methods. Writing includes a reinforcement of basic narrative, informational, and persuasive pieces with an emphasis on the composition format. Students are expected to develop discussion and note-taking skills. In addition, students must prepare and deliver two formal speeches.

### **11<sup>th</sup> GRADE COLLEGE PREP ENGLISH**

English 11 College Prep is designed for the student planning to attend college. The areas covered include reading, writing, speaking, and listening as aligned with the Reading, Writing, Speaking, and Listening Pennsylvania Academic Standards 1.1 to 1.8. The reading selections chronologically survey American literature, emphasizing American history and philosophy. Vocabulary is incorporated through a variety of methods. Writing includes poems, stories, narrative, information and persuasive pieces and a research paper. Students are expected to develop college-level discussion, research, and note-taking skills. In addition, students must demonstrate proficiency in public speaking.

This course is designed to be academically challenging and will receive a weighted grade. The district recommends that this course be taken only by students proficient in language arts.

### **12<sup>th</sup> GRADE GENERAL ENGLISH**

English 12 General is designed for the student who is not planning to attend college but will enter the workforce upon graduation or seek no-college post-secondary training. The areas covered include reading, writing, speaking and listening as aligned with the Reading, Writing, Speaking, and Listening Pennsylvania Academic Standards 1.1 to 1.8. The reading selections include a survey of all literary genres with an emphasis on British literature. Vocabulary is incorporated through a variety of methods. Writing includes poems, stories, narrative, informational, and persuasive pieces. Students are expected to develop discussion, research, and note-taking skills. In addition, students must demonstrate proficiency in public speaking.

### **12<sup>th</sup> GRADE COLLEGE PREP ENGLISH**

English 12 College Prep is designed for the student planning to attend college. The areas covered include reading, writing, speaking, and listening as aligned with the Reading, Writing, Speaking, and Listening Pennsylvania Academic Standards 1.1 to 1.8. The reading selections chronologically survey British literature, emphasizing British history, and philosophy. Vocabulary is incorporated through a variety of methods. Writing includes narrative, information and persuasive pieces with emphasis on the college-level essay format. Students are expected to develop college-level discussion, research, and note-taking skills. In addition, students must demonstrate proficiency in public speaking.

This course is designed to be academically challenging and will receive a weighted grade. The district recommends that this course be taken only by students proficient in language arts.

### **CONTEMPORARY YOUNG ADULT FICTION (Grades 9-12)**

Students enrolling in Contemporary Young Adult Literature will read novels published primarily in the last ten years. Selections will be from a variety of genres, including realistic fiction, science fiction, fantasy, dystopian fiction, multicultural literature, graphic novels, and award winners. Students will examine the historical development of the young adult literature genre,

characteristics of young adult literature, and current trends. Students will also continue to develop skills in literary analysis and interpretation through a variety of activities, including discussion, writing, projects, and presentations.

### **ALGEBRA I (Prerequisite Pre-Algebra)**

The content of the Algebra I course is based on the assumption that all students have obtained competency in the four basic operations with whole numbers, fractions, and decimals. The primary goal of the course is for the student to be able to understand and use variables. Topics covered include: solving equations, operations on polynomials, factoring, graphing, solving systems of equations, and solving word problems.

### **ALGEBRA II - (Prerequisite Algebra)**

This course reviews and enhances the concepts and skills learned in first year Algebra. Algebra II includes an extended study of operations on polynomials, graphs of linear equations, and solving quadratic equations. Additionally, students will master the skills of solving inequalities, absolute values, and solving systems of two and three equations. More advanced topics will include the operations on both irrational numbers and complex numbers and the ability to solve systems of equations using matrices and determinants. One of the highlights of the course will be the opportunity to utilize the graphing calculator to develop insights and an appreciation for the use of today's technology in the field of mathematics.

### **PLANE GEOMETRY (Grades 9-12) (Prerequisite - Algebra II)**

The geometry course is designed to develop and extend the logic and reasoning ability of each student. The concept of a proof, both inductive and deductive, is developed throughout the course. Topics covered include: logic, congruent and similar triangles, polygons, circles, instructional, and area. This course will encourage students to think creatively and independently.

### **TRIGONOMETRY - (Grades 11-12) (Prerequisite - Geometry)**

This course provides a working knowledge and applications of plane trigonometry, analytical geometry, and advanced topics in algebra. The trigonometry portion of the course deals with solving both right and oblique triangle, graphs of trigonometric functions and solving trigonometric equations. Additional topics covered in this course include: complex numbers, polar coordinates and equations, exponential and logarithmic functions, sequences and series, and conic sections. There will be a strong emphasis placed on "real-life" applications of trigonometric skills. Students will be expected to complete lab experiments, be competent in the use of a graphing calculator and, be able to use a CBL unit to collect and analyze data.

### **PRECALCULUS – (Grades 11-12) (Prerequisite - Trigonometry)**

The principal objective of Pre-calculus is to provide those students planning on taking college-level math and science courses with the best possible understanding and integration of algebra, trigonometry, analytical geometry, and discrete math. Students will be expected to solve problems algebraically, numerically, and graphically. Real-life applications and data from various fields of science, business, economics, engineering, and statistics will be used

extensively. Students will be exposed to numerous problem-solving techniques many including the use of technology. All students will be expected to use a graphing calculator to visualize and solve problems.

### **CALCULUS – (Grade 12)**

This course begins with an in-depth analysis of elementary functions. A transformational approach is utilized in graphing quadratic, polynomial, and rational functions. Extensive coverage of polynomial functions and theory of equations provides the background for learning concepts of calculus – limits, continuity, differentiation, and integration. Applications of differentiation and integration are investigated. This course is designed to be computational and an intuitive approach is used.

### **PSSA PREP CLASS (Fall Semester of the Junior Year)**

This course is based upon the students PSSA and Scantron Test scores at the end of the 10<sup>th</sup> grade year. It will be **mandatory** for those identified students to take this PSSA Prep course during the fall semester of their junior year followed in the spring semester with the next math in the student's progression.

### **PRACTICAL ALGEBRA AND GEOMETRY I (Grades 9-12)**

This course is intended to help students to begin to bridge from the concrete, number-oriented mathematics of basic math courses to abstract, symbol-centered algebra and geometry found in higher level mathematics courses. Emphasis is placed on integrating algebraic and geometric concepts, discrete mathematics, probability and statistics with the reinforcement and enhancement of a student's ability to solve mathematical problems.

### **PRACTICAL ALGEBRA AND GEOMETRY II (Grades 10-12) (Prerequisite Practical I)**

This course is a continuation of concepts developed in Practical Algebra and Geometry I. This class is intended to help students to maintain a bridge from the concrete, number-oriented mathematics of basic math courses to abstract, symbol-centered algebra and geometry found in higher level mathematics courses. Emphasis is placed on integrating algebraic and geometric concepts, discrete mathematics, probability and statistics with the reinforcement and enhancement of a student's ability to solve mathematical problems.

### **PRACTICAL ALGEBRA AND GEOMETRY III (Grade 11-12) (Prerequisite Practical I and II)**

This course is the culmination of the study of those concepts developed in Practical Algebra and Geometry I and II. It is intended to help students maintain and reinforce the skills needed to compute and apply higher level mathematical concepts. Emphasis is placed on integrating algebraic and geometric concepts, discrete mathematics, probability and statistics with the reinforcement and enhancement of a student's ability to solve mathematical problems.

### **MONEY MANAGEMENT (Grade 12)**

**\*Math credit given when taught by a certified math teacher.**

Students will apply financial goals to personal life; create a spending plan/budget; provide realistic insight into cost of living as associated with spending plans process; incorporate use of decision making into daily life; demonstrate the relationship between income and education.

### **AMERICAN HISTORY II (Grade 9) (Required)**

This course is required of all ninth grade students. This course will examine America's history from the Post-Civil War era to the end of World War II and the 1940's. The course will focus on the development of America's industry and its increasing importance in world affairs and American culture.

### **AMERICAN HISTORY III (Grade 10) (Required)**

This course is required of all tenth grade students. This course will examine American history from the aftermath of World War II to modern day. The focus of the course will be on how political, cultural, and economic events following World War II have influenced the lifestyles of modern Americans.

### **GOVERNMENT (Grades 11-12) (Required)**

This course is required for students before they graduate, preferably in 12<sup>th</sup> grade. Students will study government at the local, state and national levels. Students will also study the Judicial, Legislative, and Executive branches of government. There will also be a focus on Pennsylvania's role in the development of our country.

### **WORLD CULTURES – Elective (Grades 11-12)**

This course covers the development of the major cultures of the world. The cultural development of man will be followed from early existence through today's technologically advanced world. Emphasis will be placed on differences and similarities of various cultures and their views on politics, religion, and their contribution to today's world.

### **SENIOR SOCIAL STUDIES – Elective (Grades 11-12)**

This course is intended to help students prepare for the responsibilities of the adult world from interpersonal relationships through personal finance choices. Senior Social Studies will provide students with practical knowledge and skills dealing in psychology, sociology, and economics.

### **CURRENT EVENTS – Elective (Grades 9-12)**

The Current Events course is based upon a thematic approach, where the students, on an international, national, and local level will investigate several topics. Students are required to

analyze and critique various topics and illustrate the relationship/impact that can occur within these three levels. Students will utilize the following resources to examine the predetermined topics: USA TODAY newspaper, TIME Magazine and on-line periodical database. In a given week, approximately two class periods will be spent having students research the articles related to the assigned topic. Approximately two additional class periods will be dedicated to the student preparation of the analysis and the presentation. And one class period will be committed to students submitting their final product for that particular topic. Students will be evaluated through a variety of presentation techniques that include, but are not limited to, reports, debates, presentations and models. This course is designed to enhance and provide increased opportunity for student reading, writing, and speaking. Strategies utilized in this course encourage the use of print material, technology and critical thinking skills.

### **PENNSYLVANIA CIVICS/HISTORY (Grades 9-12)**

This is an elective course for students in grades 9-12. It is recommended that students who elect this course have an interest in history and government and have an above average G.P.A. This course explores the history of Pennsylvania from colonial life to the present and includes studies of indians, the civil war era, the age of big business and the 20<sup>th</sup> century. Government of the commonwealth, local government and citizenship are features also with famous people of our commonwealth

### **ENVIRONMENTAL SCIENCE (Grade 9 Required)**

Environmental Science is the course designed to incorporate ecology into the students' everyday lives and meet the PSSA standards for Environment and Ecology. This course will use unifying themes of science and technology to integrate significant concepts and demonstrate science process skills.

### **PHYSICAL SCIENCE (Grade 10 Required)**

This course is an introduction to the basic principles of physical science. Included in this course are topics such as force and motion, sources and uses of various forms of energy, properties and changes of matter, atomic structure and the elements. The students are introduced to the use of chemical laboratory work and the scientific methods used by people of science.

### **BIOLOGY I (Grade 11 Required)**

This course is designed to give the student a basic introduction to the vast field of biology (nature). The course develops an awareness of the organisms that comprise our earth and a study is made of the structure and function of those living organisms. The course introduces basic concepts in laboratory skills, cytology, genetics, microbiology, botany, zoology, taxonomy, and ecology.

### **BIOLOGY II - (Grades 11-12) (Prerequisite Biology I)**

Provides students with a meaningful awareness of some of the fundamental characteristics of the living world and their relationships for basic human concern. Topics included are:

1. Basic understudy of experimenting, measurements, and scientific methods, tables and problems.
2. Intro to basic life science principles including:
  - A. Classification
  - B. Spontaneous generation
  - C. Origins of life
  - D. Religion vs. Evolution
3. Study of Animals:
  - A. Organs and systems
  - B. Tissues and cells
  - C. Reproduction
  - D. Behavior
  - E. Heredity
  - F. Field study/observations-birds
4. Study of Plants and Algae
  - A. Types of structures
  - B. Photosynthesis
  - C. Reproduction
  - D. Field Study and collections
  - E. Microscopic structure/function
5. Study of Genetics:
  - A. Basic principles
  - B. Monohybrid crosses
  - C. Probability
  - D. Dihybrid crosses
  - E. Sex-inheritance
  - F. Genetic disorders
  - G. Incomplete dominance
  - H. Population genetics

**PHYSICS (Grades 11-12) (Prerequisite of Trigonometry)**

Physics is a survey of general physical concepts including: kinematics, dynamics, field of force, energy, wave concepts, and particle physics. The course is designed to meet the needs of students who plan to continue science or technical study.

**APPLIED PHYSICS (Grades 11-12) (Prerequisite Algebra I)**

Students will learn that in a system any combination of parts will work together to do specific job. This course will study examples of mechanical, fluid, electrical, and thermal systems. These systems act in similar ways. Basic principles such as force, rate, and resistance all operate across the four systems.

### **SURVEY OF ANATOMY AND PHYSIOLOGY (Grades 11-12) (Prerequisite Biology I)**

This course is designed to study the human body and enable students to: explain the differences between organic and inorganic compounds required for body function and development; describe the transmission and development of micro organism relating to the human body; use correct anatomical terminology in describing body orientation; describe/locate all internal organ systems of the body and know their function; become familiar with common diagnostic procedures; and explain the cause/effect of disorders of each body system.

### **ADVANCED ANATOMY AND PHYSIOLOGY (Grades 11-12) (Prerequisite Biology I)**

This course is provided to offer students who are specifically interested in pursuing a career in the Health Professions an opportunity to become familiar with the structural parts of the various systems within the Human Body.

This is a hands-on Parts Course, where students focus on learning the language of Anatomical Structure and the ability to visually identify the structural parts of the various components of the Human Anatomy.

### **MICROBIOLOGY (Grades 11-12) (Prerequisite – Biology I)**

This course will introduce students to the historical development of the science of Microbiology, the structure and function of microbial cells, the metabolism and factors affecting growth of bacterial organisms, as well as microbial ecology and its impact upon the human environment and economics. Through lecture, discussion, and laboratory investigations, students will develop techniques to identify and evaluate major groupings of bacterial organisms.

### **CHEMISTRY I (INORGANIC) – (Grades 10-12) (Prerequisite - Algebra I and Physical Science)**

This is a college preparatory basic level chemistry course. Fundamentals taught include the review and usage of the metric system, classification of matter, history of the development of atomic structure, the periodic table and its trends, bonding, stiochiometry, equilibrium, the Gas Laws, acid base theory, and organic chemistry. Students are in the laboratory at least 3-4 days every other week executing classical laboratory investigations into chemical reactions.

### **CHEMISTRY II (ORGANIC) – (Grades 11-12) (Prerequisite Chemistry I)**

A large part of Advanced Chemistry will cover concepts of organic chemistry. A portion of this class will cover topics not covered in Chemistry I, such as chemistry of selected elements. Emphasis will be on organic, in labs and lecture.

### **AGRISCIENCE (Grades 9-12)**

Agriscience is meant to give students an opportunity to study science with an emphasis on the world related to agriculture. An in depth study of soils, plants, and animals as well as new technology will be explored with an emphasis on agriculture and food science career training.

### **AGRICULTURE EDUCATION I (Grades 9-12)**

The Agriculture Education I course is a one-credit introductory course, which meets one period per semester. The course includes wildlife management, supervised occupational experiences,

Future Farmers of America, agriculture mechanics, animal science, plant science, agriculture careers, and safety. All studies lead to skill development for meeting occupation objectives in agriculture. The laboratory facilities of the shop, greenhouse, tree farm, and educational field trips are used. Students put knowledge and skills learned into practice through their supervised occupational experience projects. Students are required to purchase materials to complete agricultural mechanics and supervised occupational experience projects. No pre-requisite courses are required.

**AGRICULTURE EDUCATION II (Grades 10-12),  
AGRICULTURE EDUCATION III (Grades 11-12),  
AGRICULTURE EDUCATION IV (Grade12)**

The Advanced Agriculture Course is an advanced elective for students in grades 10, 11, and 12. The class is a one-credit course which meets one period per semester. Advanced Ag. courses will be offered on a 3-year cycle. Topics on agricultural education will be offered on a rotating basis so that, should a student complete the 3-year cycle, they will be exposed to all curriculum offerings for advanced agriculture. Any of the advanced courses may include: units of instruction in forestry, supervised occupational experience, Future Farmers of America, agricultural mechanics, animal science, soil science, farm business management and safety. Supervised occupational experience projects are required. They are to become larger in scope and complexity of management. Students are expected to develop individual and group leadership plans and set a proper example for younger members.

**SAE (SUPERVISED AGRICULTURE EXPERIENCE) (Grades 9-12)**

\*Student must be enrolled in an agriculture course during the school year.

Students will learn the skills of computation and estimations, writing and research, predictions, work and earnings, safety and injury prevention, career awareness and preparation, career acquisition, and entrepreneurship.

**ART I (Grades 9-12)**

This course is designed to meet the needs of students who have an interest in enhancing their creativity, knowledge, and range of skills in art and design. Topics that will be covered are: Commercial Art/Graphic Design, Design and Composition, Color Theory and Painting, 3-Dimensional Design, 20<sup>th</sup> Century Art History and drawing and perspective. Emphasis is placed not only on developing skills, but on producing a quality product, problem-solving, and following directions. Students can expect lessons that are structured, but allow for ample creativity.

**ART II (Grades 10 - 12) (Prerequisite - Art I)**

Second course in Art. Differs from the Beginning Course in that a wider range of materials and media will be used and that a higher level of technical skill is expected. Drawing, painting, and both 2- and 3-dimensional design skills will be stressed. Careers in the visual arts will also be explored.

### **ART III (Grades 11-12) (Prerequisite - Art I & II)**

This course is for students who have a serious interest or advanced skills and have successfully completed both Beginning and Intermediate courses. Topics such as art styles, media, and technique will be explored. Students will be required to display content as well as skill in their work. Students can expect to produce a large amount of work as a means of discovering personal strengths, style, and career direction.

### **3-DIMENSIONAL ART (Grade 12) (Prerequisite – Art III)**

This course will explore the areas of additive and subtractive sculpture, ceramics, architectural and interior design, and package design. A study of surface, form, and function will provide the basis for problem-solving. Students will create functional and non-functional products and structures in 3-Dimensional media.

### **PHOTOGRAPHY (Grades 9-12)**

This course is for students who have a serious interest in taking quality photographs or in exploring it as a career interest. The course will cover: Basic 35mm camera operation and care, photographic composition, creative control of the camera, special effects, layout and display, careers in photography, and shooting color film. **(This is not a darkroom course)**. Students should expect to spend \$20-30 on film and developing. Limited to 16 students due to camera availability.

### **CREATIVE WRITING (Grades 10-12)**

This is an elective course designed for students who wish to develop or enhance their creative writing skills. Students will read and analyze various types of prose and poetry models and write their own prose and poetry incorporating the techniques studies. Through constant practice of various literary techniques, students will develop their own writer's voice.

### **PHOTO-JOURNALISM (Grades 10-12)**

This course is for students to use photography and journalism techniques to create the school newspaper. Students will work to complete various projects that will incorporate writing assignments, layouts, and photographic techniques. Although photography is not a prerequisite, knowledge of photography will greatly enhance the quality of the finished product.

### **MYTHOLOGY (Grades 9-12)**

Students will become acquainted with prominent archetypes and themes through stories drawn from around the world. The course is designed to create an awareness of other people's cultural bases and increase both respect for others and an appreciation of our own place in the world. In addition, the course will offer experiences in researching and selecting appropriate tales, organizing information, and planning and performing a dramatic presentation.

### **DRAMA (Grades 9-12)**

Students shall investigate the basic components of the Dramatic Arts. This may include theater history and important playwrights from different historical periods and their works. Technical topics for investigation may include: acting, lighting, scene design, costuming, and make-up. Whenever possible, a hands-on approach will be utilized with students participating in appropriate lab work. Assignments may include the reading of representative scripts of various types. Mini-productions may be rehearsed and performed.

### **DRAMA II (Grade 10-12) (Prerequisite Drama I)**

This class will focus on the production of minor/major productions. Students will be expected to memorize, rehearse, and perform various types of plays. Both onstage and backstage personnel will be needed

### **READING THE MOVIES (Grades 10-12)**

Students will recognize classic film characters, plots, themes, actors, and music and understand allusions to these films in other media. Students will understand the basic language of film and the ways it communicates messages to the audience.

### **PUBLIC SPEAKING (Grades 10-12)**

Students will be introduced to principles of interpersonal communication and public speaking techniques. The areas covered include speaking and listening as aligned with the Reading, Writing, Speaking and Listening Pennsylvania Academic Standards 1.6 and 1.8. Skills in developing a dynamic verbal profile and confidence in oral presentations will be covered. Students will be expected to participate in class discussion and to deliver a variety of speeches including Introductory, Demonstrative, Informative, Public Service Announcements, Extemporaneous, and Persuasive. Also students will be required to participate as an audience for those delivering speeches.

### **VIDEO PRODUCTIONS I (GRADES 9-12)**

This course will provide students with a basic understanding of the video production process. In this hands-on, cooperative learning environment students will learn each stage of video production, and will master the skills necessary to work with the equipment and software involved in basic digital video production and basic television broadcast.

Students will also explore the elements of media, journalistic integrity, copyright law, and basic Cinematography as they complete various projects for the course. Students will develop these skills through a variety of both group and individual projects. The student run production studio is community and school oriented and is intended to provide video production services for all aspects of student life, including Public Service Announcements, Advertisement and Promotion of school events, journalistic coverage of school events and entertainment.

### **VIDEO PRODUCTIONS II (GRADES 10-12) (Prerequisite Video Productions I)**

This course will expand upon the skills that students learn in *Video Productions I*. Students will deepen their understanding of the video production process through a study of advanced “low budget” filming techniques and special effects. In this hands-on, cooperative learning

environment students will continue to build upon their knowledge each stage of video production, and will master the skills necessary to work with the equipment and software involved in basic digital video production and basic television broadcast. Video Productions II students will begin experimenting with more advanced filming techniques and special effects. Video Productions II students will also graduate from using “iMovie HD” to “Final Cut Pro” for more advanced digital video editing.

### **VIDEO PRODUCTIONS III (GRADES 11-12) (Prerequisite Video Productions I & II)**

This course will expand upon the skills that students learn in the courses *Video Productions I and II*. Students will deepen their understanding of the video production process through the continued study of advanced “low budget” filming techniques and special effects. In this hands-on, cooperative learning environment students will continue to build upon their knowledge each stage of video production, and will master the skills necessary to work with the equipment and software involved in basic digital video production and basic television broadcast. Students will be working exclusively using “Final Cut Pro” digital video editing. Video Productions III students will also be responsible for assisting Video Productions I & II students in the filming and editing process. Video Productions III students will also take on more responsibilities in Studio Management and training Video Productions I students.

### **SENIOR HIGH CONCERT CHORUS (Grades 9 - 12)**

This class provides a great opportunity for senior high students to study and perform vocal music. The development of vocal skills and musicianship will be the primary focus of the class and the acquired skills will be put into practice in several performances throughout the year. We will use a wide variety of music to achieve the objectives of this class, from classics to contemporary selections.

### **SENIOR HIGH CONCERT BAND – (Grades 9-12) (Prerequisite Jr. High Band and/or Extensive Private Music Lessons)**

Students are provided the opportunity to advance their music talents in an instrumental group situation. The class meets daily, all year, for 40 minutes. Weekly group lessons are provided and required. **Students are strongly encouraged to participate in the other instrumental musical organizations (marching band, jazz band, small ensembles) in the school. However, they are not required to do so to be in Senior High Band.** Since this is a performing group, four graded performances, after school hours, are required. Additional graded performances may be added.

### **MUSIC APPRECIATION (Grades 9-12)**

This course is designed to give the high school student a survey of musical topics and skills for the development of a lifetime appreciation of music. Areas that are covered may include, but are not limited to: Technology and music, Guitar instruction, the historical foundations of Rock N’ Roll, modern popular styles of music and performance aspects of those styles. Size and length of the course will play a big part in the topics covered.

### **COMPUTER APPLICATIONS – (Required, generally taken in 9<sup>th</sup> grade)**

This course is designed to give the student a fairly thorough background in word processing, database management, and spreadsheet usage. The software used, the platform used, and the material presented will depend on the lab where this course is taken. Numerous projects in each component area will be completed to achieve mastery. Additional topics will be covered time permitting.

### **COMPUTER PROGRAMMING I (Grades 10-12) (Prerequisite - Algebra I)**

This course is designed to help develop the student's logical thinking and problem solving skills. The concepts introduced in the literacy course will be greatly expanded. The computer language presently used is True BASIC, designed by the same two authors of the original BASIC. The student will write computer programs to solve a variety of problems using If/Then statements, For-Next loops, DO loops, single and double dimension arrays, counters, and sums, as well as various input and output commands. The students will be introduced to Hypercard stacks and will learn navigation using programmed buttons (similar to a link on the web).

### **COMPUTER PROGRAMMING II (Grades 11-12) (Prerequisite Computer Programming I)**

This course is a sequel to Computer Programming I. It is designed to further develop the student's logical thinking and problem solving skills. The student will write larger and more complex computer programs to solve a variety of problems using the many built-in functions, plus learning to save to and retrieve data from a disk. Hypercard stacks including the use of backgrounds and scripts will be created.

### **INTERNET (Grades 10-12) (1/2 credit Elective)**

Topics to be covered will vary as technology on the Internet expands. Initially, the following will be included: web page construction and design, use of e-mail, e-mail attachments, address book maintenance, Internet search techniques, and bookmark maintenance. The students will create new web pages for the school's Internet site using various web page creation programs and will learn how to publish web pages on a server. Additionally they will collaborate with teachers in creating web pages for classroom use and will create multimedia presentations to promote their pages.

### **KEYBOARDING I (Grades 9-12)**

Keyboarding is intended for all high school students, grades 9-12. This introductory course is designed to develop the student's skills developed in 7<sup>th</sup> Grade Keyboarding. Students improve their ability to do touch typing for personal and business use. Emphasis is on improving keyboarding speed and accuracy, as well as developing skill in formatting various business documents. Students will also encounter proofreading, language arts, and decision-making activities.

### **KEYBOARDING II (Grades 10-12) (Pre-requisite - Keyboarding I)**

Keyboarding II is intended for those students in grades 10-12 to review the basic keyboard reaches and function keys to reinforce correct typewriting posture and habits, to attain a higher degree of straight copy and statistical typewriting skill, and to be introduced to more sophisticated formats, documents and column layouts.

**DESKTOP PUBLISHING (Grades 10-12) (1/2 credit Elective)**

The Desktop Publishing course will provide the opportunity for students to produce documents that appear to be professionally prepared but are produced using the computer such as newsletters, brochures, and business cards, flyers, letterhead, incorporating features such as: watermarks, borders, shading, logs, and tables to name a few. Areas of study will included good layout and design techniques, different types of frames, working with images, graphic accents, color schemes, proper use of white space as well as an emphasis on detail and producibility.

**INTEGRATED BUSINESS EDUCATION (Grades 11-12) (1/2 credit Elective)**

This course is designed to give students realistic business applications involving use of word processing, spreadsheets, and database and to introduce students to some of the skills in today's office environment. Emphasis is on hands-on activities involving various departments in an office. As time allows, students will also be introduced to proper telephone techniques, proofreading skills, and numeric keypad.

**ACCOUNTING I (Grades 10-12)**

Accounting is intended for all high school students. The how and why of the accounting process and business finances are covered. The keeping of records for a service business and a merchandising business are emphasized. Accounting I is taught to prepare a student for employment, post-graduate study, or personal use.

**ACCOUNTING II (Prerequisite Accounting I) (Grades 11-12)**

Accounting II is intended for those students who wish to further their accounting skills. Accounting II is a vocational and career-oriented course for the student who wishes to make a career in an area requiring bookkeeping and accounting. As a future proprietor or manager, the student learns more about business procedures and business records so he/she can maintain, direct, or interpret financial data.

**ACCOUNTING III (Grade 12) (Prerequisite Accounting II)**

Advanced knowledge in Accounting

**ACCOUNTING IV (Grade 12) (Prerequisite Accounting III)**

Ongoing Advanced knowledge in Accounting

### **BUSINESS AND MARKETING (Grades 11-12) (1/2 credit Elective)**

This course is designed to introduce students to the tools used in sales and marketing to attract and maintain customers. Emphasis is on hands-on activities involving the sports, entertainment, automotive, and recreation industries. Some of the concepts learned will be the importance of branding, promoting, selling, and supporting products to meet customer needs. Students will learn how sales and marketing work together to improve customer satisfaction and increase profits.

### **21ST CENTURY TECHNOLOGY (Grades 10-12) (Prerequisite Internet)**

- Wiki
- Blog
- Pod Casting
- Web Sites

### **DRAFTING TECHNOLOGY I (Grades 10-12)**

Drafting is designed to accelerate student learning in order to keep pace with the expansion of subject matter in the drafting field. A broad foundation of the subject matter is stressed. Areas of study include career planning, lettering, measuring, sketching, use and care of instruments, projection, auxiliary views, sectional views, pictorial drawings, surface developments and computer-assisted drafting.

### **DRAFTING II (Grades 11-12) (Prerequisite Drafting I)**

Drafting II is designed to stimulate the student's thinking and problem-solving ability. Problems are arranged in a sequence according to level of difficulty. Areas of study include those of Drafting Technology I, plus assembly drawings, dimensioning, fasteners, technical illustration, and computer-aided design and drafting.

### **DRAFTING III (Grade 12) (Prerequisite Drafting I and II)**

Advanced learning in Drafting

### **DIVERSIFIED TECHNOLOGIES (Grade 9)**

The student will be exposed to a variety of technology experiences in the manufacturing and communication areas. The introduction of manufacturing systems will involve the students in the different aspects necessary to understand how the manufacturing process works in the development of new products. Knowledge about materials, processes, management, automation and business organization will be covered in the manufacturing portion. In communications, students will be involved in the use of current drafting technologies and how it relates to manufacturing and construction methods.

### **WOOD TECHNOLOGY I (Grades 10-12)**

Students will combine prior knowledge and experiences with new exposure to machine woodworking operations and methods. Students will be assigned projects with specific size and limitations. The student will be involved in the entire manufacturing process: research, design, drawing, planning, and construction of his/her own individualized project. With this approach, the student has a chance to progress at his/her own rate and to exercise his/her own desires.

Students will be expected to pay for a portion of their total project prior to beginning of the project. The balance of payment for the project will be due upon the completion and removal of the project from school property.

### **WOOD TECHNOLOGY II (Grades 11-12) (Prerequisite Wood I)**

Course content will be the same as Wood Technology I, since these courses are taught in a combined class. The students at this level will be given more responsibilities and will be expected to perform at a higher level of proficiency. Students will combine prior knowledge and experiences with new exposure to machine woodworking operations and methods. The student will be involved in the entire manufacturing process: research, design, drawing, planning, and construction of his/her own individualized project. With this approach, the student has a chance to progress at his/her own rate and to exercise his/her own desires.

Students will be expected to pay for a portion of their total project fee prior to the beginning of the project. The balance of payment for the total project will be due upon completion and removal of the project from school property.

### **WOOD TECHNOLOGY III (Grade 12) (Prerequisite Wood II)**

Course content will be the same as Wood Technology II, since these courses are taught in a combined class. The students at this level will be given more responsibilities and will be expected to perform at a higher level of proficiency. Students will combine prior knowledge and experiences with new exposure to machine woodworking operations and methods. The student will be involved in the entire manufacturing process: research, design, drawing, planning, and construction of his/her own individualized project. With this approach, the student has a chance to progress at his/her own rate and to exercise his/her own desires.

Students will be expected to pay for a portion of their total project fee prior to the beginning of the project. The balance of payment for the total project will be due upon completion and removal of the project from school property.

### **MANUFACTURING (Grades 10-12)**

Exploring Manufacturing is designed for a first course in manufacturing. The text describes the types of materials from which manufactured products are made, and explains management activities and responsibilities in the manufacturing industry. Detailed explained of the secondary manufacturing processes of casting and molding, forming, separating, conditioning, assembling, and finishing. Topics include designing and engineering products, developing production systems, marketing products, performing financial activities, career opportunities and more.

### **FAMILY AND CONSUMER SCIENCE (Grades 9-10)**

Increase student knowledge of the four content areas of FACS curriculum. Balancing Family, Work, and Community; Financial and Residence Management; Child Development; Food Science and Nutrition. Students will be able to demonstrate and develop skills necessary for the 21<sup>st</sup> century by integrating math, science and language arts through hands-on activities which reinforce through application.

### **CONSUMER EDUCATION (Grades 10-12)**

Comprehensive course for grades 10 to 12. Topics to be covered will be: building a foundation for life, improving relationship skills, enhancing personal well-being, using consumer skills, making food choice and foreign foods. Students will understand the economy, manage personal and family finances and make informed buying decisions. Demonstrate knowledge of issues of credit use; on-line banking; bill payments and banking basics; identity theft and investment options.

### **CULINARY ARTS I (Grades 11-12)**

Students will increase their understanding in the areas of food choice and nutrition and meal planning; focus on food preparation and kitchen basics including kitchen tools, food safety, and sanitation; understand the relationship between geographic location and history of a region to the cuisine of various cultures; demonstrate competency in a variety of food preparation areas; and participate in hands-on food labs and unit projects.

### **CULINARY ARTS II (Grade 12) (Prerequisite Culinary Arts I)**

Students will increase their understanding in the areas of food choice and nutrition and meal planning; focus on food preparation and kitchen basics including kitchen tools, food safety, and sanitation; understand the relationship between geographic location and history of a region to the cuisine of various cultures; demonstrate competency in a variety of food preparation areas; and participate in hands-on food labs and unit projects.

### **CHILD DEVELOPMENT (Grades 11-12)**

Increase student knowledge in the areas of physical, emotional, social and intellectual development at the various stages of child development; describe the decisions and preparations parents must make for the needs of their children; describe the changes that affect a woman and fetus during pregnancy; and outline the causes, symptoms, and treatments of various childhood illnesses.

### **CONSUMER MONEY MANAGEMENT (Grades 10-12) (Prerequisite Consumer Education)**

Students will apply financial goals to personal life; create a spending plan/budget; provide realistic insight into cost of living as associated with spending plans process; incorporate use of decision making into daily life; demonstrate the relationship between income and education.

**SPANISH I (Grades 9-12)**

Spanish I is an introduction of the Spanish language and the Hispanic culture. Mastery of basic vocabulary and structures are acquired through example and actual use. Emphasis is on communicating in Spanish in real-life situations. All four language skills (listening, speaking, reading, and writing) are practiced. As the year progresses, Spanish is increasingly used as the language of instruction.

**SPANISH II (Grades 10-12) (Prerequisite - Spanish I)**

Spanish II continues Spanish I's objective of developing a basic grasp of the language for real-life circumstances. All four language skills are practiced. Most classroom communication will be in Spanish, with English used for occasional clarification. Emphasis remains on actual communication, along with vocabulary and further investigation of the Hispanic culture.

**SPANISH III (Grades 11-12) (Prerequisite - Spanish II)**

The goal at this level is to further increase fluency in Spanish, using the "Target Language" as much as possible. Discussions and instruction will be almost exclusively in Spanish. All four language skills are practiced. Students will become more familiar with the culture of Spanish-speaking countries.

**SPANISH IV (Grade 12) (Prerequisite - Spanish III)**

Students' functional level of fluency allows them to communicate almost entirely in Spanish. There will be a concentration on longer, more complex pieces of literature, songs, and video arts to practice language skills and deepen their understanding of Hispanic culture and history.

**SPANISH V (Grade 12) (Prerequisite – Spanish IV)**

Advanced education in the Spanish language

**SPANISH VI (Grade 12) (Prerequisite – Spanish V)**

Advanced education in the Spanish language

**GERMAN I (Grades 9-12)**

This course introduces the German speech sounds and vowel combinations. Sentence structure patterns are introduced in sequence through oral exercises and dialogues. Oral and written drills on vocabulary and basic speech patterns move in progression toward mastery of basic grammatical concepts. The emphasis in this course involves oral comprehension, speech, and basic writing skills of the target language. Culture is discussed on an ongoing basis—each chapter contains a culture section. Maps, posters, film strips, and any authentic German articles are used to enrich the learning environment.

**GERMAN II (Grades 10-12) (Prerequisite - German I)**

This course is a continuation of German I. More emphasis is placed on culture.

**GERMAN III (Grades 11-12) (Prerequisite - German I & II)**

German III is a continuation of materials from German II. Students are expected to increase proficiency in oral comprehension as well as the ability to speak the German language. Cultural information includes more information on German history, as well as short articles written by German authors. Information is given on different dialects spoken. Current events as they occur are related and discussed, i.e., the deployment of Pershing and cruise missiles in West Germany, German reunification, and economic reforms as they relate to the 90's.

**GERMAN IV (Grade 12) (Prerequisite - German I, II, & III)**

This course is a continuation of German III. This entire course is taught in the target language. This includes the review at the beginning of the semester. Emphasis is placed on vocabulary expansion (including idiomatic expressions); historical personalities from the areas of politics, art, music, and sports; and contemporary individuals. Discussions compare and contrast various aspects of German/American life.

**GERMAN V (Grade 12) (Prerequisite – German I, II, III, & IV)**

Advanced education in the German language.

**PHYSICAL EDUCATION (1/2 credit in 9<sup>th</sup> and 11<sup>th</sup> – opposite days of health – full credit during 10<sup>th</sup> grade and 12<sup>th</sup> grade)**

The students will receive instruction in the areas of team, individual and life-time sports. They are encouraged to participate in group activities which help to enhance their physical development and coordination ability.

**HEALTH EDUCATION (1/2 credit in grades 9 and 11)**

This course is designed to aid students in evaluating their own health knowledge and behavior so they are better equipped to face the critical health issues of today. Students will look closely at their own lifestyles, learn skills to change negative behavior, and set goals for improving their well being. Students will participate in simple experiments, self-inventories, and projects related to topic areas.

**FIRST RESPONDERS TRAINING (Grade 12)**

This course provides a basic awareness program of how to treat life threatening illnesses and injuries. The program is a Pennsylvania Department of Health certification course.