

MAHANoy AREA HIGH SCHOOL



**2015-2016
COURSE SELECTION GUIDE
PROGRAM OF STUDIES**

Principal's Message

Our goal is to have the best possible education for you. As a student you have a responsibility to yourself to make your life the best possible. A sound education is one way to accomplish that.

The course offerings are many and diverse. As you concentrate on what to select, challenge yourself. If you qualify for one of the honors, AP, advanced language or dual enrollment courses, select it. Keep in mind short- term as well as long-term goals. If you plan to attend post-secondary education, enter the workforce or military, there are courses designed to assist you.

Be advised that your selections lock you into a schedule which can only be changed under the guidelines spelled out below. So be realistic when choosing. Carefully consider your strengths and weaknesses, discuss it with your guidance counselor, mentor, families or myself. If you follow these suggestions, I feel you will be rewarded with a diverse, challenging, and successful year.

This is your school and your education. Make the most of it!

Students will work directly with the High School Principal to schedule classes. Students will be updated on their transcripts by the High School Principal at the time of scheduling. Scheduling is a team effort and I recommend parents/guardians to be involved as much as possible. You may contact my office to schedule an individual meeting regarding scheduling at any time.

Mr. Thomas Smith

Mahanoy Area High School Principal

tsmith@mabears.net

(570) 773-3443 extension 4011

Mahanoy Area School District Mission Statement

The mission of the Mahanoy Area School District in cooperation with parents and community members is to provide diverse practical educational opportunities, to enhance each student's self-esteem, to develop individual talents and interests which will encourage students to achieve their full potential, and to become productive citizens in an ever-changing global society.

Mahanoy Area School District Vision

The Mahanoy Area School District's vision incorporates educational innovation to prepare our students for the 21st Century and to contribute meaningfully to the lives of our students. Students entering the work force today must be able to communicate, to speak and write well. They must be able to cooperate with one another, solve problems confidently, and access information through the use of computers. Clearly defined standards of student performance in both social and academic areas. We at Mahanoy Area community, will work every day to make this vision a reality for our children, so that we can all move into the future, each prepared to make a living, make a life, and make a difference.

Philosophy

The Mahanoy Area School District believes the CHILD is the center of the educational process. That process focuses on the child's physical, emotional, social and intellectual growth; develops a positive self-concept; enables the child to take a responsible role in both school and community. We believe the TEACHER, as a member of a supportive team, strives to ensure success in all aspects of the child's growth. We believe the SCHOOL, in cooperation with the HOME, provides a safe atmosphere that allows the child to develop to his/her fullest potential.

High School Departments/Teachers

Business Department

Ms. Kathy Loy-Department Chairperson

Ms. Janet Gettig

Ms. Valerie Kane

Arts and Humanities

Ms. Dorothy Scicchitano-Department Chairperson

Ms. Allison Kline

Ms. Bethany Pepe

Fitness and Health

Ms. Christine Evancho-Department Chairperson

Ms. Nancy Brylewski

Mr. Darren Kline

Foreign Language

Ms. Theresa Yakubik

Social Studies

Mr. Timothy Tobin- Department Chairperson

Ms. Bridget Pollack

Mr. Ian West

Science

Mr. Jonathan Shirvinski-Department Chairperson

Ms. Cheryl Fegley

Ms. Cathy Stone

Mr. Thomas Malkemes

Mathematics

Mr. Thomas Scheeler- Department Chairperson

Mr. Kristopher Bet

Ms. Nicole Luchetta

Ms. Kristina Kelchner

English

Ms. Natalie Zawada- Department Chairperson

Mr. Daniel Nester

Ms. Elise Popalis

Ms. Amy Wislosky

Mr. Kieran Cray

Ms. Sally Fallon/LCCC

Special Education

Ms. Josette Bet- Department Chairperson

Ms. Pam Reitz

Ms. Selene Schagen

Mr. Bo Rogers

Scheduling Guidelines

The graduation requirements for Mahanoy Area High school are in compliance with Pennsylvania State Board of Education regulations and include credits earned in grade 9 through 12.

I. Graduation Requirements include minimums in the following areas:

English	4.00 credits
Social Studies	4.00 credits
Mathematics	4.00 credits
Science	4.00 credits
Fitness/Health	1.00 credit
Technology/Business	2.00 credits
Arts/Humanities	1.00 credit
Electives	6.00 credits

II. Promotion and Graduation Requirements:

To Grade 10	7 credits
To Grade 11	13 credits
To Grade 12	19 credits

III. Schedule Changes:

Schedule changes will be permitted as follows:

- A. Request by student's teacher for change in the level of difficulty of a course.
- B. Scheduling error-Example: Student completed English course in summer school but student schedule not adjusted.
- C. Changes recommended by IEP Team or School Psychologists.
- D. Administrative directed changes due to unusual circumstances.

Program of Studies

Our curriculum is designed to offer course choices that permit students to obtain the most comprehensive program available. It is to the student's advantage to schedule a variety of courses in order to be prepared to enter a four-year college, a technical trade/technological school, or a community college.

In order to better serve the students of Mahanoy Area High School, all students are encouraged to select courses that match their abilities and aptitudes. Note: Every student in grade 9 through grade 11 must maintain a full schedule. Students in grade 12 that have met the minimum graduation requirements have school-to-work and dual enrollment to college options.

DUAL ENROLLMENT

Dual enrollment allows (11th & 12th) students to take college courses while attending their home high school. Through a partnership between Mahanoy Area High School and Lehigh Carbon Community College (LCCC), students can earn both transferable college credits and high school credits for courses taken in the dual enrollment program.

Students participating in the dual enrollment program receive these course credits at a fraction of the cost they would pay to state universities or private colleges if they enrolled in those courses on campus. Courses are taught at our high school by our faculty and college professors.

Courses that are available for dual enrollment at this time are Composition & Research, and Analysis of Literature. This is subject to change depending upon the availability of professors and course enrollment. Certain criteria are in place for those students wishing to enroll in dual enrollment course work. See the course description for more information.

If the dual enrollment grant is no longer available, students will need to pay the tuition to participate in the course as well as any fees for books, materials, etc.

SCHOOL-TO-WORK

The School-to Work Program allows 12th Grade students, who have enough credits to graduate, early dismissal/late arrival as long as the student is employed on a regular basis. Work skills and ethics are reinforced through weekly seminars and onsite job monitoring. The student must schedule a meeting with High School Principal to obtain paperwork and permission to enter this program.

Weighted courses

In order to bring our courses in line with other weighted systems in the country and to recognize our motivated students, our honors courses, advanced placement courses and dual enrollment courses will be weighted in the following way:

Honors courses and advanced courses: average x 1.05 = grade

AP and dual enrollment courses: average x 1.10 = grade

Business and Technology

COURSE TITLE: INTRO TO BUSINESS .25 credit
COURSE DESCRIPTION: General Business will introduce students to the world of business and help prepare them for economic roles as consumer, worker, and citizen. The course will also serve as a background for future business courses (9th Grade).

COURSE TITLE: CAREER EDUCATION .5 credit
COURSE DESCRIPTION: This 9th grade required course is designed to expose students to career clusters and explore different career opportunities. Students will learn how to successfully transition from school to work by looking for a job, applying and interviewing for a job starting a new job, workplace management and expectations of employers, and work attitudes. Students will complete freshman portion of graduation project during this class. (9th grade)

COURSE TITLE: COMPUTER APPLICATIONS 1 credit
COURSE DESCRIPTION: This 10th grade required course reinforces proper keyboarding technique with emphasis on speed and accuracy. Students are instructed on Word, Excel, Power Point, Publisher and Access using Microsoft Office 2010. Using the keyboard touch-type method students will prepare business documents, newsletters, and brochures; plan effective Power Point presentations; create Web pages with hyperlinks and many other creative projects. Students will be required to proofread, correct and type from a rough draft copy. Students will complete sophomore portion of graduation project during this class. (10th grade)

COURSE TITLE: VOCATIONAL COMPUTER APPLICATIONS .5 credit
COURSE DESCRIPTION: Students are instructed on Word, Excel, and Power Point using editing, formatting, special features, desktop publishing with work, creating Web pages, hyperlinks, planning effective Power Point presentations, and creating worksheets. Students will experience hands-on instruction in the Microsoft Office applications. (10th Grade Vocational Technical Students)

COURSE TITLE: ACCOUNTING I 1 credit
COURSE DESCRIPTION: This course allows the students to apply and develop an appreciation and an understanding for a systematic process of recording, classifying and sorting business data. The course will introduce the student to various business papers in connection with transactions requiring accounting entries. Students will be applying accounting principles for personal use record-keeping and acquaint themselves with the opportunity offered by accounting as a life work (10th-12th Grade).

COURSE TITLE: ACCOUNTING II 1 credit
COURSE DESCRIPTION: This course is a sequel to Accounting I. The student will apply and continue to develop an appreciation and an understanding for a systematic process for recording, classifying and sorting business data. The course will continue instructions to the student using business papers in connection with transactions requiring accounting entries. The student will develop an overall understanding for a sole proprietorship, partnership, and corporation, and will be able to utilize skills in completing projects (Accounting I prerequisite).

COURSE TITLE: BUSINESS LAW 1 credit
COURSE DESCRIPTION: Students will learn fundamentals on business law, introducing personal law, criminal law and tort law. Students will also learn legal ethics, employment, credit, banking, bankruptcy, contracts and partnerships (11th-12th Grade).

COURSE TITLE: BUSINESS ENGLISH 1 credit
COURSE DESCRIPTION: This course provides seniors with opportunities to practice their writing, grammar, and punctuation skills through business correspondence (letters, memos, business reports, etc.). Students will also read business related books, magazines and materials. Oral presentations will reinforce presentation and oral communication skills.(12th Grade Only).

COURSE TITLE: DESKTOP PUBLISHING .5 credit
COURSE DESCRIPTION: This elective course provides students with opportunities to develop skills in electronic procedures for producing and editing publications. Students will create, format, illustrate, design, edit/revise and print publications. Students will also learn to scan pictures, produce newsletters, flyers, brochures, business cards, menus, and signs. Students will utilize Microsoft Word and Publisher to create publications
Prerequisite: Minimum grade of 85% in Computer Applications or Departmental approval with remediation (11th-12th Grade).

COURSE TITLE: YOUR EMPLOYABILITY SKILLS (YES) 1 credit
COURSE DESCRIPTION: The YES Certificate Program helps students develop the fundamental skills employers require to maintain a well-trained workforce. It addresses key employability issues and offers participants a pathway to a secure and rewarding future. Requirements of the course include: successfully complete the YES curriculum and two general knowledge exams, demonstrate a 95% or better in attendance, successfully pass a 6-panel drug screen and receive their diploma (12th Grade Only).

COURSE TITLE: SPORTS MARKETING .5 credit
COURSE DESCRIPTION: This elective course provides students with the opportunity to learn the basis of sports and entertainment marketing. Students will learn about the economics of marketing and the marketing mix. Some specific topics covered will include product and price decision making, sports promotion and images and licensing. In-class learning will be enhanced by case studies, market research activities and guest speakers (10th- 12th Grade).

COURSE TITLE: ENTREPRENEURSHIP

.5 credit

COURSE DESCRIPTION: This course provides students with the entrepreneurial skills to develop business skills through solving problems relative to business situations and to experience the thrill of making decisions critical to maintaining a prosperous business. Learning in the classroom will be enhanced by speakers from the local business world, analyzing case studies, independent and collaborative projects (creating and selling a product to make the largest profit) and online activities simulating the real business experience (10th-12th Grade).

COURSE TITLE: WEB PAGE DESIGN

.5 credit

COURSE DESCRIPTION: This elective course provides students with opportunities to learn important topics of web design, by combining technical skills with design skills to create web pages with graphics, links, and page layout. Class experiences include learning the basics of Internet, planning websites, selecting color and design, hand-on exercises, and beginning web page creating through the use of Dreamweaver
Prerequisite: Minimum grade of 85% in computer applications or Departmental approval with remediation.(11th -12th Grade).

COURSE TITLE: PERSONAL FINANCE

1 credit

COURSE DESCRIPTION: This course is a required course for all 11th grade students at Mahanoy Area. The course will introduce students to financial and decision-making concepts. Topics to cover include: Money Management, Financial Security, Credit Management, Resource Management and Risk Management. Students will complete junior portion of graduation project during this class. (11th Grade)

COURSE TITLE: BUSINESS MATHEMATICS

1 credit

COURSE DESCRIPTION: Business Mathematics is for seniors who wish to strengthen their mathematical concepts and skills. Business Mathematics provides a valuable background for all who intend to seek employment in business offices as well as development of the student's life skills in areas such as payroll applications, money and banking, investments, taxes, insurance and entrepreneurship (12th Grade Only).

COURSE TITLE: MONEY MANAGEMENT

.5 credit

COURSE DESCRIPTION: This course is designed to teach students through a simulation how to open a checking account, apply for a job, fill out an apartment application, create a budget, write checks, buy a car, and pay taxes. Students will also learn about the importance of filing and implementing a filing system along with how to compare insurance policies and premiums (11th Grade).

COURSE TITLE: MULTI MEDIA (MORNING ANNOUNCEMENTS) .5 credit

COURSE DESCRIPTION: This elective course provides motivated students with hands-on experience in media production. The course explores camera operation, script writing, audio production, video editing and effects of television on viewers. Students will be provided with all the basic skills necessary to produce a live daily news program, special video features, and short films. Students may be required to videotape projects outside the classroom. On a daily basis, students will be responsible for script writing, both in Microsoft PowerPoint and in Word format, updating the TV scrolls, and proofreading. (11th & 12th grade)

COURSE TITLE: MULTI MEDIA (TRADITIONAL) .5 credit

COURSE DESCRIPTION: This elective course provides students with opportunities to learn the key aspects of Multimedia design. Students will learn different processes for multimedia production (video capture and computer animation) and the use of different mediums to portray ideas of the students. To enhance class experience students will participate in class discussions, complete hands on exercises and the creation of a final multimedia project and be responsible for daily announcements: Aside from technical skills, students will mainly work in groups and will be challenged to empower themselves with skills including team building, organization, planning, creativity, and executing deadlines. Students are required to spend time outside of the classroom to videotape projects. A minimum grade of 85% in computer applications or Departmental approval with remediation. (11th-12th Grade).

COURSE TITLE: OFFICE PROCEDURES .5 credit

COURSE DESCRIPTION: This course will focus on preparing students with soft skills and up-to-date skills that will prepare them for the workplace environment. Throughout the year students will enhance interpersonal communication skills, develop effective ways to organize and file and improve written communication through e-mail, reports, and business letters. Opportunity to become certified in Microsoft Office and complete a Civil Service exam is anticipated. (12th Grade only)

Arts and Humanities

COURSE TITLE: MUSIC THEORY

1 credit

COURSE DESCRIPTION: Music theory is intended to introduce you to the technical study of music. This includes the study of the elements of music (melody, harmony, texture, rhythm, form, etc.), analysis of music, composition, aural skills (ear training and sight-singing) and keyboard skills. Through a rigorous study of music theory, you will enhance your performance and sight-reading skills, exercise higher thinking and thinking in the abstract, increase your improvisational skills and have a broader understanding of music. Prerequisite: Need teacher permission, recommended for students grades 10-12. Class offered every other year

COURSE TITLE: MUSIC HISTORY/MUSIC APPRECIATION

1 credit

COURSE DESCRIPTION: This is an integrated course of study designed to incorporate the study of art, architecture, literature, and history presented from the perspective of music history. Students are introduced to the elements of music, which are needed to appreciate and comprehend the music of today and of the past. Students will demonstrate an understanding of a variety of musical styles as well as identify music periods and performers and their impact on our society. This course is designed for a person who enjoys music, but does not require a music background. This class is recommended for students in grades 10 – 12. Class offered every other year

COURSE TITLE: JAZZ HISTORY .5 credit
COURSE DESCRIPTION: This is a course intended to give students a beginning look at America's music. The course looks at the beginning of jazz starting with slavery and goes through the progression of jazz throughout the decades. The class also looks at the subgenres that have been developed out of the jazz genre. Class offered in the fall.

COURSE TITLE: ROCK HISTORY .5 credit
COURSE DESCRIPTION: This is a course intended to give students a beginning look as to how rock has transformed throughout the years. The course will briefly review jazz and how the jazz genre supported rock music. The class will then look at the pioneers of the rock era and how it has changed. The class will look at the different types of sounds that can be incorporated in the rock sound from pop, rock and easy listening. Class offered in the spring.

COURSE TITLE: PIANO LAB/KEYBOARD LAB .5 credit
COURSE DESCRIPTION: Keyboard (Piano) Lab provides opportunities for students to start or to continue learning how to play the piano. Students will receive training in piano technique, music reading and basic music theory and will apply their growing knowledge and skills to playing pieces and songs ranging from classical to popular within their level of performance. Musical skills are taught and students learn at their own pace. Students will learn and perform individual pieces for each other during class as well as learn and perform group pieces with other students.

COURSE TITLE: PIANO LAB 2/KEYBOARD LAB 2 .5 credit
COURSE DESCRIPTION: This course is a continuation of Keyboard (Piano) Lab 1. It will begin with a review of Keyboard (Piano) Lab 1 concepts such as: proper playing technique, basic music theory in bass and treble clef, simple dynamic and articulation symbols. Following this, students will continue to improve their piano skills with more complex pieces and topics such as chord progressions, more complex notation and theory, and scales. Students will apply their growing knowledge and skills to playing pieces and songs ranging from classical to popular within their level of performance. Musical skills are taught and students learn at their own pace. Students will learn and perform individual pieces for each other during class as well as learn and perform group pieces with other students.

COURSE TITLE: MUSICAL PERFORMANCE BAND 1 credit
COURSE DESCRIPTION: Regularly scheduled class. Students earn a full credit per year for participation in band. A wide variety of activities is planned. Students have an opportunity to perform in small group, and large group settings throughout the year. Select band students participate in district, regional and state honor bands. Band students are invited to perform for a variety of community events. Students also have the opportunity to become student tutors and student directors.

COURSE TITLE: MUSICAL PERFORMANCE CHORUS

1 credit

COURSE DESCRIPTION: Regularly scheduled class. Students earn a full credit per year for participation in chorus. A wide variety of activities is planned. Students have an opportunity to perform in small group, and large group settings throughout the year. Select chorus students participate in district and regionally events. Chorus students are invited to perform for a variety of community events. Students also have the opportunity to become student tutors and student directors.

COURSE TITLE: ART 1

1 credit

COURSE DESCRIPTION: This course provides students with opportunities to study how the elements and principles of art influence perception and personal expression in today's society as well as throughout various periods of art history. Students will explore various techniques in the drawing, painting, sculpture, 2D design and crafts. This course will give students experience in conceptualizing, visualizing and executing original work. Prerequisite: Ninth Grade Intro to Art (10th-12th Grade).

COURSE TITLE: INTRO TO ART (9TH Grade)

.5 credit

COURSE DESCRIPTION: This nine week course introduces students to the role of art in society through a variety of hands on assignments. It also covers an introduction to art history and careers in art. This must be taken before the art elective course.

COURSE TITLE: FAMILY AND CONSUMER SCIENCE

.5 credit

COURSE DESCRIPTION: 9th Grade family and consumer sciences will introduce and develop skills in both personal development and basic culinary practice. Students will analyze theories of personal development and evaluate the impacts of their decisions on themselves, their families, and their communities. Relationship skills and effective communication skills will be studied, prior to students demonstrating and applying kitchen safety and culinary skills to prepare nutritious meals for their families.

COURSE TITLE: GLOBAL FOODS AND WORLD NUTRITION

.5 credit

COURSE DESCRIPTION: This course examines world food problems and the extent of under-nutrition in the world. Students will understand causes of under-nutrition globally and here in the U.S. in addition to learning about programs to help alleviate under-nutrition. Students will analyze cooking and eating trends in the U.S., Canada, Latin America, Europe, Mediterranean Countries, Middle Eastern and African Countries, and Asia. They will also evaluate how climate, geography, and culture affected the cuisine from those countries. Students will additionally enhance their understanding of world cuisine through preparation and sampling of foods (11th-12 Grade).

COURSE TITLE: PARENTING

.5 credit

COURSE DESCRIPTION: Marriage and Family Living will explore issues including current marriage laws and practices, the marriage relationship, dimensions of a family, dealing with family crises, and managing family living. Students will also investigate and make use of time and financial management skills while planning a wedding.

Fitness/Health

COURSE TITLE: HEALTH .5 credit
COURSE DESCRIPTION: (required course) To provide the students with the well-being of their body, their mind and their relationships with other people.

COURSE TITLE: PHYSICAL EDUCATION .5 Credit/1 Credit
COURSE DESCRIPTION: (required course) It is our hope and goal that students will learn the value and meaning of sound body and mind. This would include the teaching and doing of aerobics for cardiovascular benefits. Also important is a background for lifetime sports to be given to the students. Students will also demonstrate ability to work cooperatively in team sports.

COURSE TITLE: SPORTS PHYSIOLOGY I .5 credit
COURSE DESCRIPTION: To identify the anatomical structures of the human body. To understand the workings of the nine systems of the human body.

Language

COURSE TITLE: SPANISH 1 1 credit
COURSE DESCRIPTION: Spanish 1 will begin with basic conversational phrases along with an introduction to adjective agreement, definite and indefinite articles, and the conjugation of several common irregular verbs. Also taught in Spanish 1 will be colors, numbers, days, and months along with telling time, expressing possession, and talking about the weather. Regular verb conjugation in the present tense will be taught as well as the conjugation of reflexive and stem-changing verbs. Students will be exposed to vocabulary words and phrases and cultural facts about places in the Spanish-speaking world. They will also have the opportunity to read in the target language.

COURSE TITLE: SPANISH 2 1 credit
COURSE DESCRIPTION: Spanish 2 is a continuation of Spanish 1. It will begin with a review of the present tense and continue from there. Following the present tense will be the conjugation in the two past tenses – the preterite and the imperfect – and their uses. Also taught will be various command forms and the different uses of the verbs ser/estar (to be) and saber/conocer (to know). Students will continue to be exposed to numerous vocabulary lists and more advanced articles to read. They will also explore the Spanish-speaking world in more detail.

COURSE TITLE: SPANISH 3/ADVANCED SPANISH 1 credit
COURSE DESCRIPTION: Spanish 3 is a continuation of Spanish 2. After a review of the present, preterite, and imperfect tenses, it will continue through the formation and uses of the present perfect, future, and present subjunctive tenses. Mixed throughout will be smaller grammatical points such as the difference between por and para (for). Students in Spanish 3 will be introduced to various vocabulary sections. They will also be exposed to the Spanish-speaking world in more detail. Students will experience readings taken from Spanish and Spanish American literature: myths, poems, short stories, etc. They will also write in Spanish about different given situations.

COURSE TITLE: SPANISH 4/ADVANCED SPANISH 1 credit
COURSE DESCRIPTION: Spanish 4 begins with a review of all tenses learned to date, then continues with the conditional tense and the formation and uses of the imperfect subjunctive. Also discussed will be the different uses of para and para que. After completing what was not covered in Spanish 3, supplemental materials will be used including Spanish readers, magazines, and newspapers in addition to the book Spanish Four Years which offers students the opportunity to do more intensive work in the language. Students will continue to read from Spanish and Spanish American literature. They will continue to write about given situations. They will also have the opportunity to study in even more depth the cultures of the Spanish-speaking world.

Social Studies

COURSE TITLE: AMERICAN HISTORY II/Pa. HISTORY II (1877-1945) 1 Credit
COURSE DESCRIPTION: This is a general survey course that begins at the end of the Reconstructive Period (1877) and continues chronologically to the end of World War II (1945). (9th Grade)

COURSE TITLE: WORLD CULTURES/ WORLD HISTORY 1 Credit
COURSE DESCRIPTION: World Cultures/ World History is a survey course that will start at the dawn of civilization to the modern dilemmas of nation building throughout the world. Major topics and concepts discussed in the class will include, emerging empires, development of an early modern world, imperialism and its effects throughout the world, and present day issues. By taking this course students will have a natural understanding of worldwide physical and cultural geography. (10th Grade)

COURSE TITLE: AMERICAN HISTORY III (1945 – Present) 1 Credit
COURSE DESCRIPTION: This is a general survey course picking up where American History II leaves off. This course will cover the time period from the beginning of the Cold War to the present time. The prerequisite of American History II is required. (11th Grade)

COURSE TITLE: GOVERNMENT .5 credit
COURSE DESCRIPTION: This will be a survey course for all students. Each student will be encouraged to explore the “nuts & bolts” of the constitution, the makeup and operation of Congress, executive and judicial branches. Political parties and elections will also be covered. The student will be assigned outside readings, research papers, along with oral presentations. Media such as newspapers, weekly news periodicals, video and computers will enrich the students’ learning environment (12th Grade).

COURSE TITLE: ECONOMICS .5 credit
COURSE DESCRIPTION: A survey course for all students in our school. Students will be taught the impact economics has on their lives. Commonplace economics will be enriched with academic topics to stimulate the interest of the students. Outside readings, research papers, oral presentations, and current events will be assigned. Discussion will be encouraged at all times (12th Grade).

COURSE TITLE: CURRENT EVENTS (elective) .5 credit
COURSE DESCRIPTION: Basic principles are applied to the understanding of current social-political problems and how they relate to an individual’s personal life. Topics included are national and international news, events and their impact in on society.

COURSE TITLE: GEOGRAPHY (elective) .5 credit
COURSE DESCRIPTION: This is a political/physical geography course covering the world’s bodies of water and continents. National boundaries, capitals, mountains, lakes and rivers will be identified.

COURSE TITLE: INVESTIGATING HISTORY (elective) .5 credit
COURSE DESCRIPTION: This course studies all the little known and mostly forgotten people, places and events that have some way made a mark in history. Pirates, politicians and heroes have all made their way through history, and their stories will be investigated in this course. Also, this course explores those places and events that were once famous, feared or revered in history, but that few today remember.

COURSE TITLE: ADVANCED PLACEMENT U.S. HISTORY 1 credit
COURSE DESCRIPTION: AP U.S. History focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. The course begins with the settlement of North America and continues chronologically and thematically until it reaches the modern day United States.

Science

COURSE TITLE: CONCEPTUAL SCIENCE 1 credit
COURSE DESCRIPTION: Comprehensive science is an introductory science course divided into four disciplines. Each student will have a quarter of Introduction to Physics, Introduction to Chemistry, Introduction to Earth and Space and Ecology. The main goal of this course is focus on foundational skills that will be used in other upper level science classes and state mandated testing (9th Grade).

COURSE TITLE: BIOLOGY I 1 credit
COURSE DESCRIPTION: The course is designed to give students an understanding of the major content areas of biology. The topics range from biochemistry, cell biology, genetics, evolution, ecology, plants and microorganisms. Lab work is used to strengthen the concepts covered.

COURSE TITLE: HONORS BIOLOGY 1 credit
COURSE DESCRIPTION: This course is designed to give students an understanding of the major content areas of biology. The topics range from biochemistry, cell biology, genetics, plants and microorganisms. Lab work is used to strengthen the concepts covered. An 86% or above in previous science courses and department chairperson recommendation are required.

COURSE TITLE: EARTH AND SPACE SCIENCE 1 credit
COURSE DESCRIPTION: Students will gain a better understanding of the planet on which they live, and apply the knowledge to their daily lives. From inside the earth to its surface to the surface of planets and stars, geologic time, and massive changes the universe has gone through.

COURSE TITLE: ENVIRONMENTAL SCIENCE 1 credit
COURSE DESCRIPTION: Provide students with a balanced approach to the diverse study of the environment. The emphasis is the study of science and the development of thinking and decision making skills. The goal is to provide students with the science background they need to analyze for themselves many of the issues concerning our environment.

COURSE TITLE: CHEMISTRY/LAB 1.25 credit
COURSE DESCRIPTION: Chemistry is the science of matter, energy, and change. Chemistry deals with the materials of the universe and the changes and energy requirements associated with matter as it undergoes changes. This course will lay a foundation as to the fundamental models of Chemistry.

COURSE TITLE: HONORS CHEMISTRY/LAB 1.25 credit
COURSE DESCRIPTION: Chemistry is the science of matter, energy, and change. Chemistry deals with the materials of the universe and the changes and energy requirements associated with matter as it undergoes changes. This course will lay a foundation as to the fundamental models of Chemistry. An 86% or above in previous science courses and department chairperson recommendation are required.

COURSE TITLE: PHYSICS 1 credit
COURSE DESCRIPTION: The first semester deals with Mechanics, the study of motion and the forces that cause it. The second semester deals with topics of Thermodynamics, Wave Motion, Sound, Light, and, time permitting, Nuclear Physics. This is a laboratory-based course requiring a solid background in Algebra and Geometry, and preferably concurrent Trigonometry.

COURSE TITLE: ADVANCED PLACEMENT CHEMISTRY 1 credit

COURSE DESCRIPTION: This course will cover the names and nomenclature, reactions and preparations of organic and inorganic compounds, and the mechanisms by which these take place, reactions and preparations. AP Chemistry is of immense importance to technology. This course will cover the same concepts as a college freshman chemistry course. A national AP test is administered at the end of the year for possible placement. Prerequisites for course include strong grades in Biology and Chemistry.

COURSE TITLE: ADVANCED PLACEMENT BIOLOGY 1 credit

COURSE DESCRIPTION: The AP Biology course is designed to cover the same concepts that would be presented in a two-semester biology course taken by incoming college freshman. The AP Biology course covers the following concepts: Molecules and Cells, Heredity and Evolution and Organisms and Populations. There are twelve labs that are designed to give the student a better understanding of the concepts presented during the course. A national AP test is administered at the end of the year for possible placement. Prerequisites are an 86% overall GPA or better and an 86% in Honors/general biology I. An 86% or better in chemistry and department chairperson recommendation is also required.

COURSE TITLE: BIOLOGY II 1 credit

COURSE DESCRIPTION: This elective course covers the concepts of animal evolution, phylogeny, structure and function from invertebrates through vertebrates. The course traces the lineage of the animal phylum. The course involves dissection of preserved animals. Prerequisites are strong Biology I grades.

COURSE TITLE: CONTEMPORARY ISSUES IN SCIENCE .5 credit

COURSE DESCRIPTION: Basic scientific principles are applied to the understanding of current social-scientific problems and how they relate to an individual's personal life. Topics included are weather, space technology, medical technology, new technologies and their impact in science and on society.

COURSE TITLE: ECOLOGY 1 credit

COURSE DESCRIPTION: A holistic approach to the study of the biological environment. Emphasis is focused on the natural environment of organisms, particularly as biotic assemblages of these organisms interact with their environments from the concrete levels of organization up to the regional and biome levels. Course content includes a review of Ecology as a Science; the nature of Ecosystems; Laws of Minimum/Tolerances/Medium; Temperature/Precipitation/Climate; Soils/Nutrients/Other Abiotic Factors; Plant/Tree Ecology; Wildlife/Marine/Aquatic Biology and Conservation Efforts.

Math

COURSE TITLE: ALGEBRA I

1 credit

COURSE DESCRIPTION: Algebra I is a course dealing with the structure and properties of real numbers. Problem solving is introduced in the beginning and is integrated throughout the entire course. Reasoning skills, analyzing information, making conjectures, and working with polynomials and functions are essential parts of the course. Geometric models are used to illustrate abstract algebraic concepts.

COURSE TITLE: GEOMETRY (HONORS)

1 credit

COURSE DESCRIPTION: The term geometry means earth measure. It consists primarily of practical rules for measuring land and buildings. Originally, rules were found by observation and experimentation. This led to the development of a deductive system of mathematical ideas which has a wide range of applications. A strong Algebra II background is needed for this proof oriented course. Prerequisite – Algebra II – (Honors)

COURSE TITLE: GEOMETRY

1 credit

COURSE DESCRIPTION: The term geometry means earth measure. It consists primarily of practical rules for measuring land and buildings. Originally, rules were found by observation and experimentation. This led to the development of a deductive system of mathematical ideas which has a wide range of applications. Studying geometry helps individuals to appreciate the power of logic as a tool to understand the world around them. Geometry gives meaning to mathematical concepts.

COURSE TITLE: ALGEBRA II (Honors)

1 credit

COURSE DESCRIPTION: A rigorous course in algebra is designed to develop a more comprehensive knowledge of this very important field of mathematics. The topics studied begin to make more connections with geometry, the sciences, and a wide variety of problem solving that applies to everyone's daily lives. The fast paced class builds on the topics covered in Algebra I. Prerequisite – Algebra I

COURSE TITLE: ALGEBRA II

1 credit

COURSE DESCRIPTION: The second course in algebra is designed to develop a more comprehensive knowledge of this very important field of mathematics. The topics studied begin to make more connections with geometry, the sciences and a wide variety of problem solving that applies to everyone's daily lives. Prerequisite – Algebra I

COURSE TITLE: ELEMENTARY FUNCTIONS (Honors)

.5 credit

COURSE DESCRIPTION: This course involves the student in a comprehensive study of polynomial, rational, and exponential functions. The course is designed to review and summarize important concepts covered in Algebra III and prepare students to study more advanced courses such as calculus. Prerequisite – Algebra III/Trigonometry

COURSE TITLE: CALCULUS (Honors) .5 credit
COURSE DESCRIPTION: This course is an introduction to a branch of mathematics which makes it possible to solve many applied and theoretical problems which may be difficult or impossible to solve by other means. Knowledge of this subject is essential in the physical, biological, social and management sciences. In calculus, functions are the major tools for describing the real world in mathematical terms. Prerequisite – Elementary Functions

COURSE TITLE: TRIGONOMETRY (Honors) .5 credit
COURSE DESCRIPTION: This course begins with a discussion of directed angles and the measurement of these angles using both degree and radian measure. Trigonometric functions and their identities and the methods of proving identities are presented. The everyday applications of trigonometry in problems involving right triangles are examined. Prerequisite – Algebra III (Honors)

COURSE TITLE: TRIGONOMETRY .5 credits
COURSE DESCRIPTION: This course begins with a discussion of directed angles and the measurement of these angles using both degree and radian measure. All trigonometric functions are introduced and examined in detail. Trigonometric identities and the methods of proving identities are presented. Special formulas and laws of trigonometry are studied. Prerequisite – Algebra III

COURSE TITLE: ALGEBRA TOPICS .5 credit
COURSE DESCRIPTION: This course is a review of topics from Algebra I and Algebra II. Problem solving is introduced in the beginning and is integrated throughout the entire course.

COURSE TITLE: PROBABILITY & STATISTICS .5 credit
COURSE DESCRIPTION: This is a branch of mathematics closely associated with the social and physical sciences. The theory in this course which makes applications in all of the sciences includes techniques, a more formal study of axiomatic probability.

COURSE TITLE: ALGEBRA III (Honors) .5 credit
COURSE DESCRIPTION: This course is designed to cover topics that are not covered in Algebra II merely because of time restrictions. This section of algebra becomes more intense and requires individuals to be prepared to study more advanced material dealing with real and complex number systems. Solving systems of equations and problem solving is more intense. Graphs of functions and their properties are developed. Prerequisite – Algebra II (Honors)

COURSE TITLE: ALGEBRA III .5 credit
COURSE DESCRIPTION: This course is designed to cover topics that are not covered in Algebra II merely because of time restrictions. This section of algebra requires individuals to be prepared to student more advanced material dealing with real and complex number systems. Solving equations and problem solving is more intense. Prerequisite – Algebra II

COURSE TITLE: SAT MATHEMATICS PREP .5 credit
COURSE DESCRIPTION: This course provides students with strategies and practice taking the math sections of standardized tests, including the SAT tests.

COURSE TITLE: AP CALCULUS (Honors) 1 credit
COURSE DESCRIPTIONS: This course gives an in depth analysis of limits, derivatives, and integrals of a function. We discuss the uses of the topics and apply them to real life situations will be discussed. Prerequisites – Honors Algebra III and Trigonometry Honors instructor’s permission

COURSE TITLE: GRAPHING CALCULATOR COURSE .25 credit
COURSE DESCRIPTION: This course will help students become more familiar with the Ti-84 Graphing Calculator and its functions. Students have the ability to use calculators on all mathematic portions of state and standardized tests. This course will provide students with strategies and hands-on practice.

COURSE TITLE: ALGEBRA 1 LAB .5/1 Credit
COURSE DESCRIPTION: This Algebra 1 Lab is a course that should be taken in sync with the Algebra 1 course. This course will help to strengthen Pre-Algebra skills as well as introduce and enhance new Algebra skills. Problem solving, reasoning, critical thinking and analyzing skills in mathematics will be strengthened throughout this course.

COURSE TITLE: ALGEBRA 2 LAB .5/1 Credit
COURSE DESCRIPTION: This Algebra 2 Lab is a course that should be taken in sync with the Algebra 2 course. This course will help to strengthen the prior Algebra 1 skills as well as introduce and enhance new Algebra skills. Problem solving, reasoning, critical thinking and analyzing skills in mathematics will be strengthened throughout this course.

English

COURSE TITLE: 9TH GRADE ENGLISH/ 1 credit
COURSE DESCRIPTION: Writing: An emphasis on informative, persuasive, narrative, and vocabulary. Literature: Traditional and contemporary literary selections. Short story, Drama, Non-fiction, Poetry, Novel, Epic with many study aids, active reading guides, and a focus on language. Grammar & Usage – work to improve language and usage in speaking and writing.

COURSE TITLE: 10TH GRADE ENGLISH 1 credit
COURSE DESCRIPTION: This course will feature the study of fiction, nonfiction, poetry, grammatical usage, writing and research. Students will develop literacy comprehension, analysis, and interpretation skills. Each student will complete various projects that will challenge him/her to think, discover facts, and evaluate facts in order to form conclusions based upon evidence.

COURSE TITLE: 11TH GRADE ENGLISH 1 credit
COURSE DESCRIPTION: This course will introduce students to fiction and nonfiction,

drama, poetry, novels, speech, composition, and research. It will encourage students to apply knowledge gained through verbal, written, and oral expressions and problem-solving activities.

HONORS ENGLISH GRADES 10 AND 11 ENGLISH

1 credit

COURSE DESCRIPTION: This course will feature the standard course description as noted in this handbook, but it will also include additional novel studies, book reports, and research projects. Honors students must have achieved at a proficient or above level in the previous English course and have the instructor's approval.

COURSE TITLE: 12TH GRADE ENGLISH/BRITISH LITERATURE 1 credit

COURSE DESCRIPTION: This course is a historical survey of English/British literature. The course is geared towards studying the foundations of English literary history and eras through careful reading and critical analysis of fiction, nonfiction, poetry, essays, letters, and drama.

COURSE TITLE: ADVANCED PLACEMENT ENGLISH 1 credit
COURSE DESCRIPTION: This course engages students to become skilled readers of prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. Both writings and readings should make students aware of the interactions among a writer's purpose, audience expectation, and subject as well as the way generic conventions and the resources of language contribute to effectiveness in writing.

COURSE TITLE: WRITING LAB 9 and 10 .5 credit
COURSE DESCRIPTION: These courses introduce the writing process while focusing on specific genres such as narration, poetry, expositions, persuasive essays, and research. Students will be introduced to MLA format and use it throughout the entirety of the course. Grammar will provide in-depth instruction in usage and mechanics to improve writing skills.

COURSE TITLE: WRITING LAB 11 and 12 .5 credit
COURSE DESCRIPTION: This is a survey course in writing designed to prepare students for college level work. It will address fiction and nonfiction narration, poetry, exposition, persuasive research writing, and analysis and synthesis essays. APA format will be introduced and used throughout the entire course. Grammar concepts will be covered as needs arise to improve writing and organization of essays.

LITERATURE KEYSTONE PREP .5 credit
COURSE DESCRIPTION: This course reinforces the concepts taught in a student's main English course to further prepare them for the Keystone Literature Exam. Concepts in both fiction and non-fiction are covered, including vocabulary, tone, literary terms, fact vs. opinion, propaganda, and more. Students will also practice writing for the constructed-response questions on the exam. In addition to literary concepts, students will also learn and practice test taking strategies and other test tricks.

SAT ENGLISH PREP .5 credit
COURSE DESCRIPTION: The course helps students know what to expect on the reading and writing portion of the SAT Exam. Vocabulary and reading comprehension skills are taught along with grammar and essay writing strategies. Students will also be kept aware of test updates and changes, and will practice strategies and other tips to use on test day.

COURSE TITLE: LCCC -COMPOSITION & RESEARCH 1 credit
COURSE DESCRIPTION: This course is designed to have students write essays, develop research papers and to master library research skills. Students will strive for sound logic, effective use of details, appropriate diction, and correct use of grammar and mechanics. Students will study models of proper writing, which include student essays as well as professionally written essays. Students must be approved by the department chair and have a proficient or advanced in prior English course.

COURSE TITLE: LCCC -ANALYSIS OF LITERATURE

1 credit

COURSE DESCRIPTION: This course is designed to provide students with the opportunity to write analytical essays about various literature sources (short stories, drama, novels and poetry). Students will demonstrate their understanding of logical thought processes, effective use of details, correct grammar/mechanics and appropriate use of vocabulary/diction. Students must be approved by the department chair and have a proficient or advanced in prior English course.

COURSE TITLE: CREATIVE WRITING I .5 credit

COURSE DESCRIPTION: This elective course will expose the students to a variety of writing styles, including poetry, journaling, reaction/response, short stories, reviews, and prose. Students will practice and develop both self and peer editing skills. Students will implement the use of technology for writing and publishing. A student portfolio will be utilized to capture the student's work and progress (11th - 12th grades)

COURSE TITLE: PUBLIC SPEAKING .5 credit

COURSE DESCRIPTION: It is the extent of this course to teach public speaking skills that can help make a difference in the many speaking situations that students will face. The challenge will be made both interesting and intimidating by studying the many aspects of human nature and human communications (11th-12th Grade).

COURSE TITLE: MYTHOLOGY .5 credit

COURSE DESCRIPTION: In this introductory course, students will focus on learning about Greek and Roman mythology. Through examination of similarities and differences of the two cultures, students will be able to identify and analyze allusions, themes, motifs, and metaphors in classic literature while drawing parallels to the present society. We will look at different approaches to interpreting literature, all of which would be applicable to written works and film of today. Grade levels: 12, 11, or Honors 10

COURSE TITLE: CONTEMPORARY FILM AND LITERATURE .5 credit

COURSE DESCRIPTION: This course will examine the reciprocity between film and literature. Novels, short stories, and plays are analyzed in relation to film versions of the same or similar works to gain an understanding of the issues involved in transporting literature to the big screen. Grade levels: 12, 11

COURSE TITLE: DRAMA AND ACTING STUDIES .5 credit

COURSE DESCRIPTION: This course offers students a practical approach to the fundamental skills of literature and the performing arts. Students learn interpretation and scene development of both written drama and performance drama. Class activities include learning basic skills necessary for theatrical productions, reading and analyzing plays, and evaluating performances. Students will also create, develop, and perform dramatic performances. Grade levels: 12, 11

Schuylkill Technology Center

The Schuylkill Technology Center is an elective option of high school course selection designed to provide the basic technical skills to assist all students to prepare for a career in tomorrow's high tech workforce and enable students to get a "head start" on post-secondary career. Programs offer basic entry-level skills with "hands-on" training on computerized and technical equipment. Students must have completed the ninth grade to enroll in the Technology Center. All Schuylkill Technology Center Programs of Studies have articulation agreements to various post-secondary/ higher education institutes, thus providing for advanced placement and advanced skill opportunities. More information regarding program of studies and articulation agreements can be obtained from Schuylkill Technology Center- Guidance Department at 570-544-4748 and 570-874-1034 or on the web at www.stcenters.org.

Schuylkill Technology Center Program of Study (POS)

The Carl D. Perkins Career and Technical Education Improvement Act of 2006 requires the development and implementation of career and technical programs of study (POS). Programs of Study incorporate secondary education and postsecondary education elements; include coherent and rigorous content aligned with challenging academic standards and relevant career and technical content in a coordinated, non-duplicative progression of courses that align secondary education with postsecondary education to adequately prepare students to succeed in postsecondary education; may include the opportunity for secondary education students to participate in dual or concurrent enrollment programs or other ways to acquire postsecondary education credits and lead to an industry-recognized credential or certificate at the postsecondary level or an associate or baccalaureate degree.

Programs of Study Consist of:

- High Priority Occupation (HPO) from PA Department of Labor and Industry
- Align POS selection from PA approved CIPs
- Scope and Sequences of Courses
- Integration of Academics Standards
- Recognized PA Industry Certifications aligned to CIPs
- Statewide articulations for POS students to postsecondary institutions that continue career pathways
- Assessments for end of program at secondary and postsecondary (e.g. NOCTI)

Schuylkill Technology Center's Career Clusters and Program of Study

Architecture and Construction

- Carpentry
- Computer Aided Drafting
- Masonry
- Plumbing & Heating Technology
- Residential/Industrial Electricity

Health Science

- Health Careers

Human Services

- Cosmetology
- Culinary Arts
- Occupational Child Care
- Ornamental Horticulture/Environmental Landscaping

Information Technology

- Computer Information Systems

Manufacturing

- Electromechanical Technology
- Machine Trades Technology
- Welding Technology

Marketing Sales & Service

- Marketing

Transportation, Distribution & Logistics

- Automotive Technology
- Collision Repair & Custom Refinishing
- Small Engine Technology

Schuylkill Technology Center's Career Clusters and Program of Study Descriptions

Architecture and Construction

Carpentry

An instructional program that prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques.

Computer Aided Drafting

An instructional program that generally prepares individuals to apply technical knowledge and skills as each relates to gathering and translating of data or specifications including basic aspects of planning, preparing and interpreting mechanical, architectural, chemical, structural, civil, pneumatic, marine, electrical/electronic, topographical and other drawings and sketches used in various engineering fields. Instruction is designed to provide experiences in drawing and CAD; the use of reproduction materials, equipment and processes; the preparation of reports and data sheets for writing specifications; the development of plan and process charts indicating dimensions, tolerances, fasteners, joint requirements and other engineering data; the development of models; and drafting multiple view assembly and sub-assembly drawings as required for manufacture, construction and repair of mechanisms.

Masonry

An instructional program that prepares individuals to apply technical knowledge and skills in the laying and/or setting of brick, concrete block, glass block, hard tile, marble and related materials using trowels, levels, hammers, chisels and other hand tools.

Plumbing & Heating Technology

A program that prepares individuals to practice as licensed plumbers by applying technical knowledge, safety and skills to lay out, assemble, install and maintain plumbing fixtures and systems for steam, natural gas, oil, hot water, heating, cooling, drainage, lubricating, sprinkling and industrial processing systems in home and business environments. Includes instruction in source determination, water distribution, waste removal, pressure adjustment, basic physics, technical mathematics, blueprint reading, pipe installation, pumps, brazing and soldering, plumbing inspection and applicable codes and standards.

Residential/Industrial Electricity

An instructional program that prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically-energized residential, commercial and industrial systems, and DC and AC motors, controls and electrical distribution panels. Instruction emphasizes practical application of mathematics, science, circuit diagrams and use of electrical codes and includes blueprint reading, sketching and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program.

Health Science

Health Careers

A cluster program with a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc.

Human Services

Cosmetology

An instructional program that prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, dyeing, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized. Instruction is designed to qualify pupils for the licensing examination.

Culinary Arts

An instructional program that prepares students for employment related to institutional, commercial or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Instruction skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level.

Occupational Child Care

An instructional program that prepares individuals for a variety of occupations in child care and guidance often under the supervision of professional personnel in child or day care centers. This program includes instruction in growth and development; nutrition; program planning and management; safety; behavior guidance; play activities; child abuse and neglect; parent-child personal relationships; learning experiences for children; and laws, regulations and policies relating to child care services.

Ornamental Horticulture/Environmental Landscaping

An instructional program having a combination of organized subject matter and practical experiences that generally prepares individuals to produce, process and market plants, shrubs and trees used principally for ornamental, recreational and aesthetic purposes and to establish, maintain and manage horticultural enterprises. Instruction emphasizes knowledge, understanding and application important to establishing, maintaining and managing horticultural enterprises such as arboriculture, floriculture, greenhouse operation and management, landscaping, nursery operation and management and turf management.

Information Technology

Computer Information Systems

An instructional program that prepares individuals to apply technical knowledge and skills to support the design and development of software applications. This program is designed to provide the capacity to prepare and interpret process and data models, develop and structure software components and to validate the functionality, usability and reliability of those components. Validation skills include testing and debugging. System, component and user documentation is to be performed throughout the process. This program will provide students with the ability to integrate new and existing components. Students will receive instruction in at least two programming languages including at least one procedure-oriented language and one object and visually-oriented language. This course provides a thorough practical knowledge of the concepts, theories, logic and critical thinking skills required when building software applications. Students completing the program will possess a basic technical foundation needed to pursue postsecondary degrees leading to a career as a software developer, analyst project leader or in the management of information technologies. Students may prefer to immediately enter the labor market in an entry-level position as developer or analyst.

Manufacturing

Electromechanical Technology

An instructional program that prepares individuals to apply basic engineering principles and technical skills in both the mechanical and electrical fields. Instruction is planned to provide preparation in the design, development and testing of electromechanical devices and systems such as automatic control systems, servomechanisms, vending machines, elevator controls, missile controls, tape-control machines and auxiliary computer equipment. Instruction also includes feasibility testing of engineering concepts, systems analysis including designs, selection and testing and application of engineering data and the preparation of written reports and test results in support of mechanical and electrical engineers.

Machine Trades Technology

An instructional program that prepares individuals to apply technical knowledge and skills in all aspects of shaping metal parts. Instruction involves making computations relating to work dimensions, tooling and feeds and speeds of machining. Emphasis is placed upon bench work and the operation of lathes, power saws, milling machines, grinders, drills and computer operated equipment (CNC and CIM). Instruction also includes the use of precision measuring instruments such as layout tools, micrometers and gauges; methods of machining and heat treatment of various metals; blueprint reading; and the layout of machine parts. Instruction prepares students to operate all types of hand and computer controlled machines.

Welding Technology

An instructional program that prepares individuals to apply technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices and types and uses of electrodes; properties of metals; blueprint reading; electrical principles; welding symbols and mechanical drawing; use of equipment for testing welds by ultrasonic methods and destruction and hardness testing; use of manuals and specification charts; use of portable grinders and chemical baths for surface cleaning; positioning and clamping; and welding standards established by the American Welding Society, American Society of Mechanical Engineers and American Bureau of Ships.

Marketing Sales & Service

Marketing

An instructional program that provides instruction in the fields of sales, distribution and marketing operations and focuses on the process and techniques of direct wholesale and retail buying and selling operations. This program is concerned with marketing, sales, distribution, merchandising and management including ownership and management of enterprises engaged in marketing. Marketing education programs prepare individuals to perform one or more marketing function such as selling, pricing, promotion, product/service management, distribution, financing and marketing information management. In addition, instructional programs include varying emphasis on technical knowledge of products and/or services marketed; related communication, economic, technological and computation skills; and abilities and attitudes associated with human relations. The program may also include management functions associated with owning and operating a business. Sales, distribution and marketing operations prepares individuals for occupations in such businesses as retail and wholesale trade, finance, insurance, real estate, entertainment, hospitality, food service, communications, storage and distribution.

Transportation, Distribution & Logistics

Automotive Technology

An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems and drive train and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components and air conditioning and includes the use of technical repair information and the state inspection procedures.

Collision Repair & Custom Refinishing

An instructional program that prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic window and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or unibody structures using hydraulic jacks and pulling devices; and file, grind and sand repaired surfaces using power tools and hand tools. Students refinish repaired surfaces by painting with primer and finish coat.

Small Engine Technology

An instructional program that prepares individuals to apply technical knowledge and skills to repair, service, maintain and diagnose problems on a variety of small internal-combustion gasoline engines and related systems used on portable power equipment such as lawn and garden equipment, chain saws, outboard motors, rotor tillers, snowmobiles, lawn mowers, motorcycles, personal watercraft and pumps and generators. This program includes instruction in the principles of the internal-combustion engine and all systems related to the powered unit. Instruction also includes the use of technical and service manuals, state inspection code, care and use of tools and test equipment, engine tune-up/maintenance, engine overhaul, troubleshooting and diagnostic techniques, drive lines and propulsion systems, electrical and electronic systems, suspension and steering systems and service operations and parts management.

Academic Courses

American Studies - 1cr

American Studies is a Level I course that focuses on the history of the United States from 1900 to present. Through readings, literature excerpts, political cartoons, simulations, technology projects and more, students will gain insight into the nation's past by examining period accounts and first person voices. Students will use varied resources to examine the links and make connections between events being studied in the textbook/ learning guides and events that are taking place today. The major focus is the state history standards: content, chronology, analysis, and interpretation. Related concepts found in the state civics, economics, and geography standards are a supporting focus.

World Studies - 1cr

World Studies is a Level II course focusing on the diverse ways of life found around the world. Through study of the pertinent issues to the major regions of the world, students will recognize and evaluate the relationships between people, places, regions, and environments. Students will further explore how physical environments affect human events and build a global perspective that allows them to understand the connections between global and national issues. The major focus is the state's geography standards: maps, environments, places, and regions. Related concepts found in the state civics, economics, and history standards are a supporting focus.

Civics/Economics - 1cr

Civics/Economics is a Level III course that is comprised of two disciplines. Economics is a course that teaches students how to make reasoned economic choices and provide ways they can effectively participate in an increasingly competitive and interdependent global economy. Students will assess the impact of market influences and governmental actions on our economy through the use of real world economic applications and analyze how different economic systems interact. In Civics, students will learn about the basic freedoms traditionally enjoyed by American citizens and about the qualities of a good citizen. Students will explore issues about U.S. citizenship and their rights and responsibilities and roles in their communities by putting them in decision-making simulations and assessments that will enable them to acquire the skills necessary to participate in our democratic processes. The major focus of the course is state civics (government, politics, participation, citizenship) and economics (microeconomics, macroeconomics, economic systems, international trade) standards. Related concepts found in the state geography and history standards are a supporting focus.

Electives:

Cooperative Education

School-to-Work activities include: Cooperative Education, Internships, and Job Shadowing. Cooperative education is a structured program integrating classroom activities (emphasis placed on employability skills) with work experiences in a field related to a student's program of study. Cooperative education is a partnership among students, educational institutions and employers, with specified responsibilities for each party.

Who is eligible to participate: Students (third year, Level III) who have completed 75% of the program, which already have a job or a good prospect for a job defined by the student's career objective.

What are the requirements: Students must be recommended by their course instructor and have a completed résumé. Attendance, grades, attitude, and behavior are considered in the decision-making process.

- Work permit (if under 18 years of age)
- Approved student transportation
- Proof of auto insurance
- Senior Portfolio obligation

All school debts must be satisfied
Valid PA driver's license
Up-to-date task listing