Program of Studies

Homer-Center Jr./Sr. High School

2018-2019

"Where Everybody is Somebody"

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CHOOSING YOUR PROGRAM OF STUDIES

Your decision as to which course of study you choose will be based upon what is best for you according to your educational and occupational goals. Careful planning is the basic requisite of any successful undertaking.

The electives offered in all courses are subject to the availability of scheduling periods. The Guidance Department makes every effort to see that programming is correct. HOWEVER, IT IS THE RESPONSIBILITY OF EACH STUDENT TO SEE THAT THE QUALITY OF HIS WORK IS ACCEPTABLE AND THAT HIS CREDITS TOTAL THE REQUIREMENTS FOR GRADUATION.

The Homer-Center School District does not discriminate in course selection on the basis of race, color, religion, national origin, or sex; nor does it discriminate against the handicapped in violation of Section 504 of the Rehabilitation Act of 1973 and its regulations.

Mr. Jody Rainey is the Title 9 Coordinator for the Homer-Center School District.

Important Note: The course offerings found in this book are subject to change based on the master scheduling process and lack of student requests of any given course.

COURSE OF STUDY

All courses offered at Homer-Center High School are designed to be aligned with the PA Common Core standards and the PA Academic Standards. It is expected that these standards are embedded in the design, delivery and assessment in every course.

Each college and trade school has its own unique admissions requirement. ***We urge all students to become familiar with the requirements of any post-secondary school they may be considering.*** The student should obtain further information concerning post-secondary admission and entrance requirements from the Career Center.

AP/HONORS COURSES

Homer-Center High School provides Advanced Placement (AP) and/or Honors courses as outlined in the Program of Study. Placement in the honors program is contingent upon obtaining meeting the prerequisites as outlined in the Program of Study. All AP and Honors courses receive a 1.1 multiplier applied to the grade at the conclusion of each marking period.

COLLEGE IN THE CLASSROOM (CIC)

The following AP courses at Homer-Center are recognized by Mount Aloysius as College in the Classroom (CIC) courses: AP Calculus AB, AP Human Geography, AP Literature and Composition, AP Biology, and AP United States History. To receive CIC credits from Mount Aloysius students participating in these courses must declare their intention to seek CIC in the fall and meet all Mount Aloysius registration and payment deadlines. Students can elect not to apply for CIC credit with Mount Aloysius and either take the AP Exam in the AP subject area or elect not to elect CIC credit nor take the AP exam. Students taking the AP exam are reminded to check the admissions office of postsecondary schools they may be considering to determine the AP test score required to earn postsecondary credit at each individual post-secondary institution. AP Language & Composition is not a CIC credit option, however, is part of the AP testing options.

INDIANA UNIVERSITY OF PENNSYLVANIA (IUP) DUAL ENROLLMENT

- Students completing their 10th grade year that have an overall GPA of 3.0 or higher are eligible to apply for participation in the Dual Enrollment program at IUP. The summer prior to the junior year, students can attend classes on campus or online.
- During the school term, junior year, students can take classes on campus, after school hours or online classes.

- Seniors that have the flexibility in their schedule and receive prior approval from guidance can leave campus during the school day to take college courses at IUP. Seniors can also take courses on campus, after school hours or online.
- The school does not provide transportation for students in the Dual Enrollment program.
- Students electing this option receive a reduced tuition rate established by IUP. (Currently students are responsible for 25% of the tuition bill).
- Students applying for Dual Enrollment will be deemed ineligible if they have missed 15 or more days in the previous school year.
- Dual Enrollment courses will be noted on your high school transcript, however they will not be used in determining GPA and cannot be used to replace a required a high school course.

INDIANA COUNTY TECHNOLOGY CENTER (ICTC)

During the 9th grade year, all 9th grade students will participate in a tour of the ICTC. Students wishing to attend ICTC at the start of their 10th grade year must meet criteria established by the ICTC Joint Operating Committee and HCHS. The criteria considers factors that demonstrate that success at ICTC is likely and generally includes academic targets, attendance history, and availability of ICTC programs that match the interest of the individual learner. The principals and guidance counselors of ICTC and HCHS will meet annually to review and make determinations regarding student applications for ICTC.

Students with an IEP must take the vocational assessment. Any IEP student that does not meet the academic criteria for acceptance into ICTC can be considered for an academic waiver. An academic waiver will be granted if the IEP team decides the results of the vocational assessment indicate the student will likely thrive and experience success in the ICTC program.

Once accepted into ICTC students must complete an acceptable percentage of their ICTC program competencies annually to remain enrolled. An acceptable level of competency obtainment, academic achievement and regular attendance as determined by the principals of ICTC and Homer-Center High School will be required to remain enrolled in the ICTC program.

LEARNING SUPPORT PROGRAM

The Learning Support Program at Homer-Center High School is a needs-driven program. The individual needs of each identified student are taken into consideration and a schedule is tailored to meet these needs. The following are the levels of support offered:

- Student receives all instruction in the regular education classroom. There is no learning support staff in the classroom. The regular education teachers make adaptations as specified in Individualized Education Plans (IEP's). Opportunity for test-taking and guidance with assignments is provided in the Learning Support Resource Room.
- Student receives instruction in the regular education classroom with Learning Support staff present in the classroom. Above services also provided.
- Student receives instruction in a pull out classroom setting that parallels the regular education classroom. Courses are instructed by qualified special education teachers.

The Learning Support Program is structured in such a way that each staff member interacts with students of all grade levels. This provides the opportunity to have a strong team approach for monitoring and programming to best meet the needs of our students. In addition, student needs are revisited yearly through the development of an Individualized Education Program for each student.

Life Skills Support

Homer-Center School District offers life skills support classroom that service the needs of the students from grades 7-12. All students have the opportunity to receive instruction across various settings in both the regular education, special educational, and/or a mixture of both. Students are offered the following courses and activities: Transitioning skills,Functional academics, Community based instruction, Independent living Social skills, Jr. High Functional Reading, Sr. High Functional Reading, Sr. & Jr. High Functional Math

Vocational exploration and application

Student needs are revisited yearly through the development of an Individualized Education Program for each student.

SECONDARY GIFTED PROGRAM

The secondary gifted enrichment program's goal is to meet the specialized needs of each eligible student and to assist him/her to make maximum use of his/her abilities. The professional staff gives direction and assistance for the many programs and competitions in which the student may opt to be involved. Additionally, students who participate in the gifted program meet once per week.

Options for students in the Junior High gifted program include but are not limited to: Accelerated Studies, History Day, and other academic enrichment opportunities.

Options for students in the Senior High gifted program include but are not limited to: Vocational Experience, Scholastic Competitions, Honors English, Accelerated Studies, IUP Dual Enrollment, AP Courses, History Day, and IUP Mentorship.

Students are placed in the gifted education program after a referral/evaluation procedure is completed by the psychologist from the ARIN Intermediate Unit. If the student is identified in need of gifted programming, placement is made with the consent of the parents/guardians and the various options are then available to the student.

All Gifted Students must meet the established prerequisites for acceptance in any academic course, program or competition. In addition, Gifted Students will complete an individual Annual Educational Goal activity which follows and adheres to Gifted Guidelines/Criteria as developed by the Pennsylvania Department of Education.

Students electing to take a Dual Enrollment course online and are able to schedule Independent Computer will be given the opportunity to work on their Dual Enrollment online course during this class.

HOMER-CENTER DEPARTMENTAL GROUPS

Homer-Center High School is organized by academic departmental groupings. The Program of Studies is organized by departmental offerings. The departments include:

- Science
- Mathematics
- English/Reading
- Social Studies
- Electives/Fine Arts
- Health/Physical Education
- Special Education
- Gifted Education

HOMER-CENTER PROMOTION POLICY

Students in grade 7 must pass three out of the four core subjects (English Composition, English Literature, Math, and World History) to be promoted to 8th grade. A student in grade 7 who fails three or more of the four core subjects will be retained in grade 7 with no summer school option.

A student in grade 7 who fails two of the above listed core subjects will be permitted to recover that credit through a Homer-Center approved summer school program. After the completion of the summer school program if the total number of successfully completed core 7th grade courses equals three or more the student will be promoted to grade 8.

Students in grade 8 must pass four out of the five core subjects (English Composition, English Literature,

Science, Math, and American History) to be promoted to 9th grade. A student in grade 8 who fails three or more of the five core subjects will be retained in grade 8 with no summer school option.
A student in grade 8 who fails two of the above listed core subjects will be permitted to recover that credit through a Homer-Center approved summer school program. After the completion of the summer school program if the total number of successfully completed core 8th grade courses equals four or more the student will be promoted to grade 9.

For students to be promoted to a sophomore homeroom, a minimum of 5 credits must be completed successfully during the freshman year. These credits must be for 9th grade level classes. For students to be promoted from a sophomore to junior homeroom, a minimum of 10 credits must be successfully completed. To be promoted to a senior homeroom, a total of 17 credits must have been successfully completed.

Students in grades 9 through 12 who fail any attempted credit may recover up to two credits through a Homer-Center approved summer school program. Students electing this option must receive prior approval from the Principal.

If the failure involves a special education student, the principal will consult with a multidisciplinary team prior to determining placement status.

GRADUATION REQUIREMENTS

In order to graduate from Homer-Center High School, students must meet the Chapter 4 regulations for Academic Standards and Assessment as established by the PA Department of Education and the Homer-Center School District.

Credit Requirements: A student must successfully complete at least 25 credits. Listed below are the required subjects and corresponding credits, which are to be successfully completed.

English	4.00 credits
Social Studies	4.00 credits
Math	4.00 credits
Science	3.00 credits
Physical Education	2.00 credits
Health/Wellness	.50 credits
Arts and Humanities	2.00 credits
Family & Consumer Science	.25 credits
At Large Electives	5.25 credits

Completion of an IEP: An eligible student who satisfactorily completes a special education program developed by an Individualized Education Program team shall be granted and issued a regular high school diploma by the school district. This applies if an eligible student's special education program does not otherwise meet the Homer-Center School District's graduation requirements.

Transfer students: Will be evaluated on an individual basis.

ICTC seniors: Will complete their graduation requirement as part of their ICTC program. ICTC students will be required to meet the Keystone Exam/Project requirements as outlined above.

Science

SCIENCE 7
Total Credit Value 1.00
Grade Seven Science is divided into four quarter courses: Environmental Life Science Seven, Environmental Physical Science Seven, Life Science Seven, and Astronomy Seven. Each course meets for one marking period and is worth .25 credits.

Environmental Life Science 7: Environmental Life Science is a nine-week course designed to give students an introduction to the basic principles of ecology as the foundation upon which environmental problem-solving can be based, so that students will be able to make environmentally sound decisions in whatever roles they play in society. Topics will include the study of ecosystems, soil, water, air, energy resources, the environmental impact of human population growth, and the pros and cons of current local and global issues. Emphasis will be placed on hands-on activities that include life science concepts. Topics are aligned to the Environment & Ecology anchors and standards required for the Grade Eight PSSA, as well as Science and Technology anchors and standards in two core areas: The Nature of Science and Physical Science.

Physical Science 7: Physical Science 7 is a nine-week course centered on energy, motion, forces and simple machines. Topics are aligned to the anchors and standards required for the Grade Eight PSSA, The Nature of Science and Physical Science.

Life Science 7: Life Science is a nine-week course designed to give students an introduction to the field of Biology. Students will study basic concepts in life science, including tools and techniques of cell studies, the cell, DNA structure and function, heredity and evolution, classification and the five kingdoms of organisms. Topics are aligned to the anchors and standards required for the Grade Eight PSSA in two core areas: The Nature of Science and Biological Sciences.

Astronomy 7: Astronomy is a nine-week course designed to give students an introduction to the field of Astronomy. Students will be required to create projects, complete laboratory activities, research topics and utilize various media/technology to explore, investigate, experience, and explain the mysteries of the Universe. Topics are aligned to the anchors and standards required for the Grade Eight PSSA in two core areas: The Nature of Science and Earth Sciences/Astronomy.

MEDICAL DETECTIVES (STEM/PLTW)- Required Grade 7
Credit value .25
Students will be required to create projects, complete laboratory activities, research topics and utilize various media/technology to explore, investigate, experience, and solve real world applicable problems with the STEM-rich Project Lead The Way: Medical Detectives coursework. *Prerequisites: Successful completion of Grade 7 Science*

SCIENCE 8
Credit Value 1.00
The Science 8 course is a year-long class with topic alignment to the anchors and standards required for the Grade Eight PSSA which tests student knowledge in four core areas: The Nature of Science, Biological Sciences, Earth Sciences, and Physical Sciences. Students will be required to create projects, complete laboratory activities, research topics and utilize various media/technology to explore, investigate, experience, and solve real world applicable problems.

ROBOTICS (STEM/PLTW) - Required Grade 8
Credit .50
Students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics® platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

BIOLOGY
Credit Value 1.00
Biology I is a year-long class with topic alignment to the anchors and standards required for the Keystone Biology Exam. The topics include but are not limited to: Biology Principles, Biochemistry, Bioenergetics, Mendelian and Molecular Genetics, Reproduction, Cellular Structure & Function, Organismal Biology, Taxonomy, and Ecology. Students will be required to create projects, complete laboratory activities, research topics and utilize various media/technology to explore, investigate, experience, and explain the mysteries of the world around us. The true nature of science is emphasized by using proper scientific methods and acceptable procedures for hypothesizing, experimenting, measurement, collecting and analyzing data, and interpreting results.

ECOLOGY
Credit Value 1.00
The course will align with Pennsylvania Keystone Biology Exam Anchors in the area of Ecology and Environmental Science. Students will study topics including but not limited to the complex ecological interactions between biotic and abiotic factors within the biosphere of Earth: characteristics of organisms, adaptations to environmental selection, the hydrosphere and its importance to all life on Earth, ecological levels of organization, food webs, energy pyramids, symbiosis and competition, limiting factors and population dynamics, pollution and changes to our biosphere, cycles of nitrogen, oxygen, carbon within the biosphere.

BIOLOGY II
Credit Value 1.00
Biology II is a year-long extension course for Biology I. Students will continue to explore the living world of in a variety of new ways. Topics will be aligned to Keystone Biology Exam anchors as with Biology I but will investigate new applications to those ideas and concepts as well as the addition of some new and current breakthrough concepts in biological science. Course work will include, lecture, cooperative learning, demonstration, projects and lab activities. This course will also include multiple opportunities for dissection. Biology II is assigned to students who did not achieve a proficient score on the Keystone Biology exam administered during the 9th grade year. *Prerequisites: Successful completion of Biology I*

CHEMISTRY WITH LAB
Credit Value 1.40
Chemistry is a year-long course presenting a sound treatment of the principles of Chemistry at a level suitable for the majority of high school students. It provides background for those planning to attend college and a useful practical background for those not planning to go on to college. Among the concepts stressed are: study of the periodic chart of the elements, physical properties of matter, chemical bonds, equations, and chemical reactions. Mathematics play a large role in this course, including a basic algebraic background. It is a textbook-laboratory combination requiring seven periods a week. *Prerequisites: Successful completion of Biology I, or Biology II with a proficient score on Keystone Biology exam.*

CHEMISTRY
Credit Value 1.00
Chemistry is a year-long course designed as an alternative for students who are unable to fit Chemistry with Lab into their schedule due to the lab requirement or are students who have successfully completed Biology I and Biology II, but have not yet obtained proficiency on the Keystone Biology Exam. The course description is

similar to Chemistry with Lab, except that it is an activity based curriculum requiring five periods a week without a lab period. *Prerequisites: Successful completion of Biology II.*

PHYSICS & LAB
Credit Value 1.40
Physics is a year-long physical science course that deals with matter and energy, and their transformations. The course includes units on motion, forces, energy, electricity and magnetism, waves, and modern physics. It is a combination textbook-laboratory course, requiring seven periods per week. *Prerequisites: Successful completion of Chemistry & Lab or Chemistry with a proficient score on the Keystone Biology exam.*

ENVIRONMENTAL SCIENCE
Credit Value 1.00
Environmental Science is a year-long science elective course that will explore and expand upon aspects of biology and chemistry. Agriculture, wetlands, natural resources, ecosystems, pest management and human-environment interactions will be the focus. Field and case studies, laboratory activities, and guest speakers will accentuate classes. *Prerequisites: Successful completion of Chemistry & Lab or Essentials of Chemistry.*

STEM PROBLEM SOLVING - Grade 10 required for non-ICTC Students
Credit Value .50
"Science, Technology, Engineering and Math" (STEM) sometimes modified to stand for "Strategies That Engage Minds" is a cross-curricular approach to education designed to prepare students for the technological demands of the 21st century workforce. This nine weeks long class is designed to enhance knowledge and understanding of STEM through results oriented collaboration, incorporating project based learning for promoting creativity, critical thinking and problem solving.

AP BIOLOGY & LAB - College in the Classroom Eligible Course
Credit Value 1.40
Weighted Course
This year-long course is designed to be the equivalent of a college introductory biology course usually taken by Biology majors during their first year. The AP Biology course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Topics include:

1. Molecules and Cells - 25%
2. Heredity and Evolution - 25%
3. Organisms and Populations - 50%

This class will follow the AP (Advanced Placement) Biology course curriculum, enabling the students to choose the option of taking the AP exam. Choosing the optional AP exam may afford them the opportunity to receive college credit, if their scores are acceptable to the college of their choice. Some AP students, as college freshmen, are permitted to undertake upper level courses in biology or to register for courses for which biology is a prerequisite. Other students may have fulfilled a basic requirement for a laboratory science course and will be able to undertake other courses to pursue their majors.

HUMAN ANATOMY Grade 12 Elective
Credit Value 1.00
Human Anatomy will include anatomical terminology, directional terms, body cavities, regions and anatomical directions. Tissues and transport systems are also covered. The majority of instruction is on the study of various body systems, including structure and physiology. Students interested in future careers in the health field should strongly consider enrolling in this course. *Note: Human Anatomy is a requirement for students electing to enroll in AP Biology. Students who do not wish to enroll in AP Biology and are considering a career in a health related field should register for this course*

Mathematics

FOUNDATIONS OF MATH 7
Credit Value 1.00
Math 7 is a course that offers the students a review of the four basic operations of whole numbers, decimals, and fractions. After mastering all operations with the previous sets of numbers, the metric system, prime numbers, statistics, graphing, proportions, percent applications and geometric terminology will be covered. Positive and negative integers and the application of variables will be introduced. *Placement Considerations: A combination of grades, teacher recommendation, and data from a variety of state exams and diagnostic testing tools used by the District.*

PRE-ALGEBRA - Grade 7
Credit Value 1.00
This course is a preparatory one for the further study of Algebra I and Algebra II. Students will strengthen their skills with basic operations of whole numbers, decimals and fractions. Students will also begin their mastery of positive and negative integers. Preparation for solving problems, including variables and applying fundamental algebraic techniques, is also an integral part of this class. *Placement Considerations: A combination of grades, teacher recommendation, and data from a variety of state exams and diagnostic testing tools used by the District.*

PSSA MATH PREP 7
Credit Value .50
Emphasis will be placed on enriching and remediating students in preparation for the PSSA Math Exam. Determining specific student strengths and deficiencies from various data sources will help the instructor individualize the instruction for each student.

PRE-ALGEBRA/PSSA 8 MATH
Credit Value 1.00
Preparations for solving problems involving variables and applying fundamental algebraic techniques form the basis of this standards based course. Students will review all Grade 8 Math Standards, with an emphasis on integers and rational numbers and preparing students to advance to Algebra I in 9th grade. Solving equations and inequalities, working with geometric concepts, and statistical graphing will also be considered in detail.

ALGEBRA I - Grade 8
Credit Value 1.00
Students will learn the basic structure of Algebra (the real number system). Students will solve equations using real numbers and graph linear functions. More operations with integers will be mastered. Students will apply algebraic concepts and skills in practical situations. The emphasis will be on the PA Common Core in preparation for the Algebra I Keystone Exam and consideration of the PSSA Algebraic Concepts Anchor. *Prerequisite: Successful completion of Pre-Algebra 7.*

PSSA MATH PREP 8
Credit Value .50
Emphasis will be placed on enriching and remediating students in preparation for the PSSA Math Exam. Determining specific student strengths and deficiencies from various data sources will help the instructor individualize the instruction for each student.

ALGEBRA I
Credit Value 1.00
Students will learn the basic structure of Algebra (the real number system). Students will solve equations using real numbers and graph linear functions. More operations with integers will be mastered. Students will apply algebraic concepts and skills in practical situations. The emphasis will be on the PA Common Core standards for preparation of the Algebra I Keystone Exam. *Students assigned to this course took Pre-Algebra/PSSA 8 during their 8th grade year, or took Algebra I during their 8th grade year but did not obtain a proficient score on the Keystone Algebra I exam or at least an 80% final grade in Algebra I 8.*

ALGEBRA II HONORS
Credit Value 1.00
In this weighted course properties topics that were developed in Algebra I will be studied in more detail and in depth critical thinking and problem solving strategies will be developed. Students will be expected to solve equations using real and complex numbers. Other topics studied include graphing linear equations and functions, solving systems of equations and inequalities, polynomials and rational expressions. PA Common Core Standards and SAT Algebra topics will be emphasized. *Prerequisite is successful completion of Algebra I 8 and proficiency on the Keystone Algebra I test.*

KEYSTONE ALGEBRA A - Grade 10
Credit Value 1.00
This course is designed for Sophomores who have not yet been proficient on the Keystone Algebra I test and who have not scored an 80% or higher in their Algebra I course final grade. Students will revisit the skills they need to pass the Keystone Algebra I test. The approach will be more individualized to help students with the specific skills they have not mastered.

ALGEBRA II - Grades 10-12
Credit Value 1.00
The real number system is the basis for this course. Properties that were developed in Algebra I will be studied in more detail. Students will be expected to solve equations using real and complex numbers. Other topics studied include graphing linear equations and functions, solving systems of equations and inequalities, polynomials and rational expressions. In this course, students will develop critical thinking and problem solving strategies. PA Common Core Standards and SAT Algebra topics will be emphasized. *Students assigned to this course have scored a proficient or higher on the Keystone Exam or received a final grade of 80% or higher in Algebra I.*

GEOMETRY
Credit Value 1.00
Students will increase their knowledge of geometric concepts. Geometry is a course that will help students see how experimentation, induction, and deduction supplement each other in scientific reasoning. It also gives the student the chance to discover proofs for themselves. Opportunities are provided whereby pupils may practice deductive reasoning in problem situations similar to those they meet in everyday living. This course emphasizes the PA Common Core standards for Geometry and Measurement, and geometry topics necessary for the SAT's. This course also emphasizes the creative aspects of mathematics. The topics discussed include logical thinking, line and angle relationships, congruent and similar figures, 3D figures, circles, constructions, and transformation geometry. Projects will further explore concepts that are covered. *Prerequisite is successful completion of Algebra II and proficiency on the Keystone Algebra I test.*

HONORS GEOMETRY
Credit Value 1.00
This weighted course covers all of the topics of Geometry with a greater emphasis on logical proofs and complex Algebra applications. Students will cover topics in more depth and develop critical thinking and problem solving strategies. *Prerequisite is successful completion of Algebra II, Keystone Algebra proficient and average of 88% in previous math courses.*

TRIGONOMETRY
Credit Value 1.00
This course is a comprehensive discussion of trigonometric and other functions as they are applied to practical problems. It is a study of the unit circle and related applications, including scale change and translation images, reciprocal functions, and trigonometric identities. Students will also learn ways to solve triangles in real-life application problems. This course will also cover functions based on real world applications. Students will study the language of functions, as well as linear, quadratic, exponential, step, power, log and polynomial functions. In addition, students will study translations and scale change images of these functions. *Prerequisite is successful completion of Geometry and proficiency on the Keystone Algebra I test.*

TRIGONOMETRY/PRECALCULUS HONORS
Credit Value 1.00
Weighted Course
This course is a comprehensive discussion of trigonometric and other functions as they are applied to practical problems. It is a study of the unit circle and related applications, including scale change and translation images, reciprocal functions, and trigonometric identities. Students will also learn ways to solve triangles in real-life application problems. This course will also cover functions based on real world applications. Students will study the language of functions, as well as linear, quadratic, exponential, step, power, log and polynomial functions. In addition, students will study translations and scale change images of these functions. The course will also integrate the conceptual underpinnings of calculus with topics of discrete mathematics. It will provide students with the opportunity to informally investigate the traditional concepts of maximum, minimum, and limits; and other concepts of graphs. Matrices will also be explored in this class. *Prerequisites: Successful completion of Honors Geometry and a proficient score on the Keystone Algebra I test.*

KEYSTONE ALGEBRA B - Grade 11
Credit Value 1.00
This course is designed for Juniors who have not yet been proficient on the Keystone Algebra I test and who have not an 80% or higher in their Algebra I course final grade. Students will revisit the skills they need to pass the Keystone Algebra I test. The approach will be more individualized to help students with the specific skills they have not yet mastered.

CONSUMER MATH - Grade 12
Credit Value 1.00
Consumer Math is designed to prepare students for the reality of everyday living during their adult years. This course focuses on many aspects that they will deal with in life, such as earning power, banking, credit, income taxes, housing options, utilities, and monthly budgets. Each unit consists of vocabulary, applications, and the use of technology. The course is taught with lectures and hands on approaches to study each topic. Additionally, this course is designed to provide the necessary remediation for students who have been unable to achieve proficiency on the Keystone Algebra I test. The course will provide the supports necessary for students to successfully complete the Keystone Algebra I project.

ALGEBRA III
Credit Value 1.00
This course is being offered to students to further extend their knowledge of Algebra. The course begins with an in-depth study of topics introduced in Algebra II. Various topics of college algebra will be introduced and explored. A concise study of analytical geometry will be included. Statistics and probability concepts will be studied in more detail. Students will also be introduced to limits and derivatives to help prepare for the study of calculus. The text, approach, and attitude of the course will be that of a college algebra course. Current technology will be integrated throughout the course. *Prerequisite is successful completion of Algebra I, Algebra II, Geometry and proficiency on the Keystone Algebra I test.*

AP CALCULUS AB - College in the Classroom Eligible Course
Credit Value 1.00
Weighted Course
The Advanced Placement (AP) curriculum will be used in this math course and students will have the option of taking the Advanced Placement test in the spring. Starting with functions and limits, theories about derivatives are developed. Definite integrals are used as a method of finding area under a curve. Other topics, which will be studied, include transcendental functions, differential equations, and deleted neighborhoods. *Prerequisite: successful completion of Honors Trigonometry*

DATA COLLECTION & ANALYSIS- Required Grade 11 (Rotation Elective)
Credit Value .50
This course gives students opportunity to apply the mathematical skills students have gained in various ways through designing data collection instruments, data collecting, formatting data to perform statistical analysis, drawing inferences, finding correlations, making judgements and predictions and supporting and communicating findings to a group of peers Basic principles of Probability & Statistics and enhancement of higher order critical thinking skills will be emphasized in this course.

English Language Arts Reading (ELAR)

ENGLISH 7
Credit Value 1.00
This course is designed to develop the student's confidence in the use of language both oral and written, though many varied activities. These activities include extensive practice with the writing process and its supporting elements. Technical concepts – such as vocabulary, grammar strategies, and language accuracy – will be learned through the composition process. The study of short stories, novels, nonfiction, poetry, and drama will be an integral component of the course designed to prepare students for the PSSA ELAR assessment Skills developed will align with the common core standards such as reading independently and critically, and learning to analyze and interpret literature. Short fiction and nonfiction reading will be the basis for responding to text dependent analysis prompts in preparation for the PSSA.

ENGLISH 8
Credit Value 1.00
This course is designed to continue the development of skills introduced in English 7 - specifically, the students' confidence in the use of language both oral and written, though many varied reading and writing activities. These activities include extensive practice with the writing process and its supporting elements with a special focus on analysis of concepts/ideas through written expression. Technical concepts – such as word processing, vocabulary, grammar strategies, and language accuracy – are learned through practical application. Opportunities are given to experience and enhance student creativity through the drafting, editing and revising of stories, compositions, and poems. The study of literature through the use of short stories, novels, nonfiction, poetry, and drama will also be an integral component of the course. Skills developed will align with the common core standards such as reading independently and critically, and learning to analyze and interpret literature. Short fiction and nonfiction reading will be the basis for developing constructive response prompts for attaining writing skills for the PSSA - specifically geared toward the text dependent analysis essay.

ENGLISH 9
Credit Value 1.00
The main emphasis of this course will be the study of short stories, novels, nonfiction, poetry, and drama. Skills developed will align with the common core standards such as reading independently and critically, and learning to analyze and interpret literature in order to build a better foundation of skills applicable to the Keystone assessment. The preparation will also include the study of written composition. This study is

extensive beginning with individual paragraphs and covering several types of essays: description, narration, exposition, and persuasion. Grammar is studied in conjunction with composition.

ENGLISH 9 LITERATURE

Credit Value 1.00

English 9 Literature will be focused on the study and analysis of literature, poetry, short stories, nonfiction, and drama. Skills developed will align with the common core standards such as reading independently and critically, and learning to analyze and interpret literature. The preparation will also include the study of written composition. This study is extensive beginning with individual paragraphs and covering several types of essays: description, narration, exposition, and persuasion. Grammar is studied in conjunction with composition. Research skills will be incorporated throughout the course. At the end of this course students will be administered the Keystone Exam.

ENGLISH LITERATURE 10

Credit Value 1.00

This course will be assigned to students who have not yet taken or achieved a proficient score on the Keystone Literature exam. A thorough review of past testing data will be performed to determine and target specific needs of the individual student. The emphasis of the course will be a continued study of the elements of literature -- theme, plot, characterization, and setting -- and various literary devices. The course is designed to create in all students a basic understanding of the essentials necessary for both reading and writing creative and expository literature. The students are given the opportunity to become familiar with and respond to fiction and nonfiction works.

ENGLISH 10

Credit Value 1.00

Students who scored proficient on the Keystone Literature exam and elect not to participate in the Honors English program will be assigned to this course. The goal is for students to develop an ability to communicate effectively in writing by using Standard English in a variety of modes, expository as well as creative. This course will develop assurance in the use of spoken English and enhance comprehension, enjoyment, and appreciation of major authors and their works. It is essential to teach English so that students will speak and write in effective, understandable, stylized form, and be able to grasp, analyze, apply and evaluate abstract ideas and the points of view of others in order to comprehend and affect the world around them. A unit on researching will also be incorporated. *Prerequisite is proficiency on the Keystone Literature Exam.*

HONORS ENGLISH 10

Credit Value 1.00

Students who scored proficient on the Keystone Literature exam will have the option to take this course. The goal of this weighted course is for students to develop an ability to communicate effectively in writing by using Standard English in a variety of modes, expository as well as creative. This course will develop assurance in the use of spoken English and enhance comprehension, enjoyment, and appreciation of major authors and their works. It is essential to teach English so that students will speak and write in effective, understandable, stylized form, and be able to grasp, analyze, apply and evaluate abstract ideas and the points of view of others in order to comprehend and affect the world around them. Researching skills along with the completion of a formal research paper will reinforce argumentative writing. *Prerequisite is proficiency on the Keystone Literature Exam and a 88% average in previous English courses.*

ENGLISH LITERATURE 11

Credit Value 1.00

This course will be assigned to students who have not yet achieved a proficient score on the Keystone Literature exam. A thorough review of past data will be performed to target specific student areas of need. The emphasis of the course will be a continued study of literature and concepts to prepare students for the re-administering of the Keystone Literature Exam. The course is designed to create in all students a basic understanding of the essentials necessary for both reading and writing creative and expository literature. The

students are given the opportunity to become familiar with and respond to fiction and nonfiction works so that they will grow to understand and seek out the abstract concepts of literature.

ENGLISH 11

Credit Value 1.00

The goal of this course is for students to develop an ability to communicate effectively in writing by using Standard English in a variety of modes, expository as well as creative. This course will develop assurance in the use of spoken English and enhance comprehension, enjoyment, and appreciation of major authors and their works. A unit on researching will also be incorporated. This course will be assigned to students who have achieved a proficient score on the Keystone Literature exam, but are not opting to take Honors 11 English. *Prerequisite is proficiency on the Keystone Literature test.*

AP LANGUAGE AND COMPOSITION

Credit Value 1.00

The AP English Language and Composition course aligns to introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. Students will become skilled readers of prose written in a variety of rhetorical contexts and skilled writers who compose for a variety of purposes. Both their reading and their writing should make students aware of interactions among a writer's purposes, reader expectations, and an author's propositional content as well as the genre conventions and the resources of language that contribute to effectiveness in writing.

ENGLISH 12

Credit Value 1.00

This course is intended for students who elect not to pursue and Advanced Placement English Course and are entering their senior year.. The course emphasizes vocabulary development, improving sentence structure, essay writing, correcting mechanics, and usage problems. A study of literature will also be included using various short stories, Shakespeare's Macbeth, a survey of British literature, full-length novels, and poetry. A research paper will be incorporated.

AP LITERATURE & COMPOSITION - College in the Classroom Eligible Course

Credit Value 1.00

AP Literature and Composition will continue to develop those skills stressed in the previous two years, especially the higher level thinking skills necessary to analyze, evaluate, and apply ideas to the literary works of challenging classical and contemporary authors. In addition to this analytical approach to literature, an intensive writing program, covering essays, creative writing, the required senior research paper, and autobiographical pieces will be presented. Individual and group presentations will continue to refine their public speaking skills. *Prerequisite is proficiency on the Keystone Literature test and an 88% average in previous English coursework.*

READING 9-12

Credit Value .50- 1.00

Emphasis will be placed on determining specific student deficiencies using various data sources and helping students develop strategies to overcome defined deficiencies. Specific instruction will be provided according to Common Core benchmarks; with students working in their identified areas of need to gain proficiency.

AMERICAN ENTERTAINMENT GENRES - Grade 9-12 Elective

Credit Value .50 - 1.00

Students will be exposed to various types of media in order to practice and refine their ability to critically think, analyze for important information, learn to convey their thoughts in written and oral expression in an effective

way, and understand the importance of media in our world and in their lives and futures. We will cover topics from film, music, television, news and current events, and media production/dissemination in order to better understand the world around them through these entertainment, news and technology-based genres. Students should leave the course able to identify and label biases, understand the basic construct of media genres, be comfortable analyzing various types of media, and be able to discuss information through a critical thinking lens as they view and process the world around them.

INTRODUCTION TO MEDIA - Grade 9-12 Elective
Credit Value .50 or 1.00
The Introduction to Media elective is a course designed to introduce students to a variety of media outlets such as television, radio, newspaper and the web. In class we will evaluate these media sources and the effects they have on society. Students will learn to create their own video production. The class will produce projects for a closed circuit broadcast which will cover the news in the Homer-Center School District. These students will also have an opportunity to work with WCCS 1160 AM.

ADVANCED MEDIA - Grade 10-12 Elective
Credit Value .50 or 1.00
Prerequisite: Successful completion of Introduction to Media
Students who have previously taken Intro to Media will study advanced video editing techniques, will plan and produce the HCWC Wildcast News, and will complete a number of advanced media projects. Projects will consist of video documentary, short movie, and advanced news writing. These students will also have an opportunity to work with WCCS 1160 AM.

PUBLIC SPEAKING AND PRESENTATION - Required for Grade 12
Credit Value .50
Public Speaking and Presentation is a quarter course designed to introduce the communication process and help students comprehend the value of effective communication in their daily lives. The course will offer students an opportunity to gain experience in a variety of planning methods for public speaking. Students will explore and prepare different types of multimedia presentations and master the skills needed to develop an effective presentation. The course will also include diction and communication exercises designed to enhance verbal communication skills.

Social Studies

WORLD HISTORY 7
Credit Value 1.00
World History 7 examines the development of world civilizations from human beginnings to 1500. Beginning with an introduction to the subject of history itself, the course will cover the prehistory of man and the river valley civilizations as well as the ancient civilizations of Europe, the Americas, the Middle East, and Asia. Students will walk away from this class with a better understanding of the foundations of the human experience as well as a greater appreciation for the various cultures in the world.

GEOGRAPHY 7
Credit Value .50
This class will familiarize students with the fundamental themes of geography. Students will apply these themes to an introductory tour of the inhabited continents of our planet. Each unit will focus on the physical geographic features as well as human constructs within the landforms. Students will be introduced to the study of culture and how humans have both shaped and adapted to the world around them. By learning about the people of the world, students will expand their understanding of the world and the diversity of its inhabitants while also shaping an interest in exploring and improving their world.

AMERICAN HISTORY 8

Credit Value 1.00

This course is designed to cover the periods of discovery, exploration, and settlement in the New World with a focus on the development and progress from Colonial America to the post-Civil War period. Special emphasis is placed upon teaching the students to appreciate our American heritage and to examine the growth of individual rights and the spirit of independence. They learn about the many problems our nation has faced and overcome. They are encouraged to think critically, but to be both fair and open-minded. Throughout these methods, attempts are made to develop responsible citizens who are aware of and concerned about other Americans.

CIVICS 9

Credit Value 1.00

The main objective of Civics is to help each student acquire the knowledge and skills necessary to become an informed and prepared civic-minded individual in this great democracy of the United States of America. In order to participate in a constitutional democracy it requires a certain amount of knowledge: the principles and documents of government, rights and responsibilities of citizenship, government processes, and international functions. Each student will also be exposed to the government and history of Pennsylvania.

WORLD HISTORY 10

Credit Value 1.00

This course traces World History from the Renaissance to the present day, with a particular focus on European history. Students will, upon completion of this course, understand the events that have influenced our world and culture today. They will examine the contributions of individuals and groups who have shaped our modern society. They will also look at the influences of continuity and change, as well as conflict and cooperation that affected the human story. Topics of study include but are not limited to the Renaissance, Reformation, Colonialism, Revolutions (Scientific, Industrial, French and Russian), Imperialism, the World Wars and the Modern Era.

AP EUROPEAN HISTORY 10

Credit Value 1.00

The AP European History course focuses on developing students' understanding of European history from approximately 1450 to the present. The course has students investigate the content of European history for significant events, individuals, developments, and processes in four historical periods, and develop and use the same thinking skills and methods employed by historians when they study the past (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation). The course is organized around five themes: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; and individual and society. Participants make connections among historical developments in different times and places.
Prerequisite: 88% or higher final grade in the previous Social Studies coursework.

AMERICAN HISTORY 11

Credit Value 1.00

American History focuses on the time period from the late 19th century to the present day. The course chronicles the major military, political, cultural and social events during this time frame, with specific attention to the people and events that have contributed to the foundation of this country and her great democracy. The curriculum reinforces a multicultural perspective by looking at the United States as a country of great diversity.

AP UNITED STATES HISTORY - College in the Classroom Eligible Course

Credit Value 1.00

The AP US History course focuses on developing students' understanding of American history from approximately 1491 to the present. Students investigate the content of US History for significant events, individuals, developments, and processes in nine historical periods. They develop and use the thinking skills and methods employed by historians when studying the past (analyzing primary and secondary sources,

making historical comparisons, chronological reasoning, and argumentation). Students explore the seven themes (American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society) to make connections among historical developments in different times and places.
Prerequisite: 88% average or higher in previous Social Studies coursework.

ECONOMICS AND CONTEMPORARY ISSUES 12
Credit Value 1.00
Students will learn basic principles of economic decision making from the perspective of the individual, firm, and industry. Particular attention is given to the market system how prices and profits coordinate the actions of economic decision makers. Topics include: supply and demand, consumer economics, entrepreneurship, costs and production, market structure, market failure regulation, and income distribution. Macroeconomics is also examined through the study of money, banking, financial markets and the foreign exchange market. This course will also explore the contemporary concerns in the social studies content areas including current events and issues in the fields of politics, geography, economics, religion, popular culture, technology, and other domestic and world affairs that impact the life of the student in the immediate future.

AP HUMAN GEOGRAPHY - College in the Classroom Eligible Course
Credit Value 1.00
The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. They also learn about the methods and tools geographers use in their science and practice. The course of study includes units on the Nature of Geography, Population and Migration, Culture, Political, Agriculture, Industrialization and Development and Cities and Urban Land Use. On successful completion of the course, the student should be able to: use and think about maps and spatial data; recognize and interpret at different scales the relationships among patterns and processes; define regions and evaluate the regionalization process; characterize and analyze changing interconnections among places.
Prerequisite: 88% average or higher in previous Social Studies coursework.

PSYCHOLOGY - Grade 11 & 12
Elective, students who successfully completed psychology cannot take the course again
Credit Value .50
This semester class is designed as an introductory course on general psychology. Students will study the basic psychological approaches: behavioral, cognitive, humanistic, neuro-biological and psychoanalytic. Units on sensation, perception, memory, consciousness, intelligence, creativity, learning, personality theories, mental disorders and treatment will be explored. Students will engage in authentic experiments related to the units of study.

SOCIOLOGY - Grade 11 & 12
Elective, students who successfully completed sociology cannot take the course again
Credit Value .50
Sociology is the study of society, social institutions, and social relationships. This course is designed to help students understand society and relationships within society. There will be a basic development of cultural diversity, conformity, and adaptations, social structures with values, norms and sanctions, along with personality development. The students will understand the problems in today's society and how they relate to or can solve them.

LAW - Grades 11 & 12
Elective, students who successfully completed law cannot take the course again
Credit Value .50
This class provides students with a thorough understanding of the many facets of the US Legal System. Topics include: Structure & function of the Judicial (courts), Executive (police) & Legislative (lawmakers) Branches; Roles of the Criminal Justice System; Rules of Law—Facts vs. Myths. The course will address Civil

law, Criminal law, Juvenile law & Constitutional law. Frequent guest speakers will provide students with first-hand knowledge & insight. Innovative classroom activities will center on the following topics: Criminal investigations & evidence collection, Case preparation and courtroom testimony, Crime scene sketching, Interviewing & interrogation techniques, Polygraph usage, handcuffing & other restraints, Crime prevention techniques. Additionally, mock trials, debates, interactive computer sites, role play & simulations will enhance student learning.

CURRENT EVENTS Grades 9-12
Credit Value 1.00
This course will explore current international, national, state and regional news stories of the day and be focused on discussion of how these unfolding events impact our lives. Students will be expected to be active participants in discussions and presentations

Electives/Fine Arts

JUNIOR HIGH BAND - Grade 7-8
Credit Value .60-1.00
The purpose of concert band is to provide an opportunity for those students who are interested in instrumental music to participate in an **beginner and intermediate level ensemble** and develop their skills. The students will be given the opportunity to rehearse and perform live music in a wide variety of settings. The concert band will develop each student's musicianship and prepare them to advance into the symphony band.

SR. HIGH BAND - Grade 9-12
Credit Value 1.00
The purpose of symphony band is to provide an opportunity for those students who are interested in instrumental music to participate in an advanced ensemble and excel as far as their individual capacity or initiative will allow them. The students will be given the opportunity to rehearse and perform live music in a wide variety of settings. The symphony band program will prepare the students to take their places in the musical organizations of the community if they so desire. The main purpose of this organization is to prepare the students to follow music as a vocation or hobby.

ADVANCED PIANO ACCOMPANIMENT - Grade 9-12
Credit Value 1.00
This course is offered to students who have an interest in piano accompaniment. The aim of Advanced Accompaniment is to build and hone skills in large group accompanying by daily playing for our Junior High Chorus. Students will gain experience in rehearsal accompanying (playing 3 to 4 vocal lines from an octavo), and accompanying the Chorus for their Christmas and Spring concerts. ***Advanced Piano Accompaniment is by audition only.***

JUNIOR HIGH CHORUS - Grade 7 & 8
Credit Value .40 -1.00
Junior High Chorus is offered to singers in Grades 7-8. The focus of the course is to build fundamental skills of singing and general musicianship leading to performance opportunities including, but not limited to, Christmas and Spring Concerts, and school assemblies. Students will also have the option of auditioning for Indiana County Chorus.

SENIOR HIGH CHORUS - Grade 9-12
Credit Value .50- 1.00
Senior High Chorus provides singers the opportunity to develop their singing skills and their musicianship while part of a team of singers striving for excellence in performance. Performance opportunities include, but are not limited to, Christmas and Spring concerts, school assemblies, community performances, and Choral Festivals.

INTRODUCTION TO MUSIC THEORY - Grade 9-12
Credit Value .50-1.00
This is a beginner course in music theory concepts designed for students who would like to delve deeper into structures and concepts of music. Students will start with basic music reading, and move through other skills such as major/minor scales, basic chords and progressions, as well as aural skills. Students will utilize these skills in both Chorus and Band classes.

JUNIOR HIGH ART - Required for Grade 7 & 8
Grade 8 .25 Credit
Grade 7 .50 Credit
The Art Program at the 8th grade level is designed to provide an outlet for experiences in a variety of mediums. Units in drawing, design, painting, ceramics, and art appreciation are incorporated into one nine-week program. Projects are designed to meet the same basic objectives using more advanced manipulative materials and techniques.

SENIOR HIGH ART - Grade 9-12
Credit Value .50 - 1.00
The art program is designed for students who wish to gain information, knowledge, and understanding of artwork that will lead to a more meaningful appreciation of art throughout life. For those especially talented in art who wish to further their education in this field, the individual projects selected would provide a good foundation in drawing, painting, design, ceramics, and general crafts.

Health and Physical Education

HEALTH & WELLNESS 8 - Required for Grade 8
Credit Value .50
In this course students develop functional knowledge relating to physical, mental, emotional, and social well-being. Concepts learned can be implemented into the student's life to increase attitudes and habits towards leading a healthy lifestyle. Curriculum includes mental and emotional health issues, social health, body systems reproductive systems, disease prevention, safety and first aid, and drug prevention.

HEALTH & WELLNESS 10 - Required for Grade 10
Credit Value .50
This course provides students information needed to make responsible decisions relating to health matters. Topics covered include decision-making skills, suicide prevention, abuse recognition, alcohol/drug issues and prevention,nutrition, sex education, communicable diseases including STIs and AIDS.

PHYSICAL EDUCATION 7/8 - Required for Grade 7/8
Credit Value .50
The course is based on a lifetime fitness philosophy, and is designed to provide students with the basic skills and knowledge of a wide variety of physical activities. Through participation in these activities the students will develop a level of physical fitness as well.

PHYSICAL EDUCATION 9-12 - Required for Grade 9-12
Credit Value .5
The course is based on a lifetime fitness philosophy, and is designed to provide students with the basic skills and knowledge of a wide variety of physical activities. Through participation in these activities the students will develop a level of physical fitness as well.

CHOICES - Required for Grade 9

Credit Value .25
The objective of this course is to empower students with skills that will better prepare them for success in senior high and adult life. The course will consist of activities, discussions, and assignments that deal with the following areas: character education, self-esteem, decision making, relationships with others, leadership skills, feelings, problem solving skills, peer pressure, goals, coping skills, bullying prevention, communication, life expectations, conflict resolution, effects of drugs on the body, and information about current drug trends.

LIFETIME FITNESS AND STRENGTH TRAINING - Grade 9-12
Credit Value .50
This course will help students to identify goals, learn about the muscles of the body, and develop and follow their own personal fitness programs. Other activities included in this elective will be various agility, plyometric, aerobic, and anaerobic exercises. The aerobics/cardio portion of this elective will emphasize a variety of aerobic exercises, with the goal of improving cardiorespiratory endurance, while simultaneously strengthening and toning the entire body.

FIRST AID/CPR & BODY SYSTEMS - Required for Grade 9
Credit Value .25
Students will have the opportunity to earn certifications in adult, child, and infant CPR/ AED and First Aid from the American Red Cross.

Business/Technology/Vocational Education

BUSINESS COMPUTER APPLICATIONS - Grade 9-12 Elective
Credit Value 1.0
Students will apply fundamental computer skills in a business setting. Special emphasis will be placed on the use of Microsoft Office Word, Excel, PowerPoint, and Access. Upon completion of this course, students will have developed the skills necessary to pursue entry level employment, as well as the background necessary for success in the business world.

CAREER EXPLORATION 8 - Required Grade 8
Credit Value .25
Students will learn about the Career Education and Work Standards and complete assignments to be added to their cumulative career portfolio in the areas of: Career Awareness and Preparation (13.1.8), Career Acquisition (13.2.8), Career Retention and Advancement (13.3.8), and Entrepreneurship (13.4.8). Students will utilize several online career planning resources including Career Cruising, ONet, and PA Careerzone in order to complete interest and aptitude inventories and investigate various career opportunities including training, education, and relevant and pertinent information related to careers matching their interests and aptitudes.

CAREER PLANNING 11 - Required Grade 11 for non-ICTC students
Credit Value .25
Students will learn about the Career Education and Work Standards and complete assignments to be added to their cumulative career portfolio on in the areas of: Career Awareness and Preparation (13.1.11), Career Acquisition (13.2.11), Career Retention and Advancement (13.3.11), and Entrepreneurship (13.4.11). In this course will participate in the junior interviews and begin to narrow their focus to one of four successful post-secondary options that include 4-year university, 2-year associate or technical training, full time self sustaining career or the military. Based on the chosen path students will research application processes, career paths within the chosen area, projected earnings and job locations and other necessary requirements to be successful in the chosen path. The school counselor will work in conjunction with the instructor to develop career plans with students and assure implementation of our Act 339 Plan.

LIFE & FINANCES AFTER HIGH SCHOOL - Required Grade 12 for non-ICTC students
Credit Value .50
Life and Finances after High School is a continuation of Grade 11 Career Planning. Based on the students selected after high school path, post-secondary schooling applications, financial aid opportunities including loans, scholarships, and grants will be discussed. Military recruiters will be introduced, resumes, standard job applications, and interview skills will be emphasized. A senior check-in with guidance will be arranged during this course. The guidance counselor will work in conjunction with the instructor to develop career plans with students and assure implementation of our Act 339 Plan. Students will also develop practical skills and a real-world understanding of the following topics: personal financial responsibility; writing checks and deposit slips; maintaining checkbook registers and reconciling bank statements; money management (creating and maintaining a personal budget, building credit, credit scores, credit reports, and lending/debt); employment (job applications, paychecks, pay stubs, payroll deductions, and I-9, W-4, & W-2 forms); filing federal income taxes; saving and investing; major purchases (vehicles and homes); and various types of risk management (life, homeowners, health, and auto insurance, wills, and powers of attorney).

ACCOUNTING I - Grade 9-12
Credit Value 1.00
This course provides students with the basic accounting concepts and practices. Activities include: recording entries for a sole proprietorship and partnership; preparing financial statements and tax forms; listening to speakers from the business community; and completing accounting simulations. The students are taught both the manual and computerized methods of recording entries and preparing statements.

ACCOUNTING II & III Grades - Grade 10-12
Credit Value 1.00
The student will study advanced accounting concepts and practices. Course topics include departmentalized accounting, depreciation, and corporation accounting. Computer programs will be utilized to complete financial reports, post transactions and complete simulations. *Prerequisite for Accounting II: Successful completion of Accounting I. Prerequisite for Accounting III: Successful completion of Accounting II.*

PERSONAL AND PROFESSIONAL MARKETING - Grade 9-12
Credit Value .50
Students will discover what it takes to market a product, service, and themselves in today's fast-paced business world. Additionally, students will become prepared for today’s workforce through the use of 21st-century technology platforms.

INTRODUCTION TO BUSINESS - Grade 9-12 Elective
Credit Value .50
This is a basic business course designed to acquaint students with the many exciting and challenging aspects of running a business in today’s world. Students will gain a basic understanding of general business topics. This course gives students a broad exposure to business operations and a solid background for additional business courses.

DESIGN & MODELING (STEM/PLTW) - Required Grade 7
Credit Value .25
Students apply the design process to solve problems and understand the influence of creativity and innovation in their lives. Students work in teams to design a playground and furniture, capturing research and ideas in their engineering notebooks. Using Autodesk® design software, students create a virtual image of their designs and produce a portfolio to showcase their innovative solutions.

FAMILY & CONSUMER SCIENCES 9 - Required for Grade 9
Credit Value .25
Family and Consumer Sciences (FCS) is a one-quarter course designated to educate students on matters of economics and management of the home and community. The lessons and activities presented are based on

the Pennsylvania Academic Standards for Family and Consumer Sciences that represent many disciplines that may include the following topics: consumer science, nutrition, food preparation, parenting, early childhood education, family economics and resource management, human development, interior design, textiles, apparel design, as well as other possible related topics.

FCS MODULES- Grade 9-12
Credit Value .50 or 1.0
FCS-Elective is a course that provides students the opportunity to experience further in-depth learning of and extra participation in activities of the following four major categories of PA Family and Consumer Sciences standards: Financial and Resource Management, Food Science and Nutrition, Balancing Family, Work, and Community Responsibility, and Child Development.

CHILD DEVELOPMENT/RAINBOW ROOM - Grade 9-12
Credit Value .50
The first part of this course will review childhood development from birth through age 5 with emphasis of students acquiring the skills necessary to plan and conduct the Rainbow Room preschool program. The second part of the course will focus on students operating the Rainbow Room preschool program under the supervision of the instructor(s).

INDEPENDENT COMPUTERS - Grade 9-12
Credit Value .50-1.00
This is a one-year computer course using a variety of computer software, programming languages, and online resources. Emphasis will be placed on using problem solving structures and problem solving skills. Additionally, using commercially-produced robotics kits, students will have the opportunity learn the basics of robotics including behaviors, electricity/electromagnetism, programming sensors, mechanics and measurement. Trends in technology will also be explored and discussed. Students will have an opportunity to design and complete projects for the school and community using Microsoft Office, Google Applications and other software/hardware as needed. Technical writing will be included in the curriculum. This course will also provide support and assistance for students enrolled in the Dual Enrollment Program.

COMPUTER SCIENCE ESSENTIALS (PLTW) Elective Grades 9-12
Credit Value 1.00
This is a Project Lead the Way designed and approved course. Computer Science Essentials is an excellent entry point for new high school computer science learners and is also beneficial to build upon the knowledge and skills of students with prior computer science experience. All students will have many opportunities for creative expression and exploration in topics of personal interest, whether it be through app development, web design or connecting computing with the physical world.

Modern Language

FRENCH I
Credit Value 1.00
This course introduces a relative range of competence in French from zero at the beginning to various increased skills and understanding during the school year. Emphasis is placed upon vocabulary, pronunciation and modern French culture, as well as upon those words and phrases used in everyday life. Practical control of the four language skills (listening, speaking, reading, and writing) are essential components of this course.

SPANISH I
Credit Value 1.00
The course introduces a relative range of competence in Spanish from zero at the beginning to various increased skills and understanding during the school year and points out similarities and differences between

Spanish and American ways of life. It leads to practical control of the four language skills (listening, speaking, reading, and writing), knowledge of the fundamentals of Spanish grammar, and some familiarity with Spanish literature and other cultural and historical achievements. Thematic units of study will include: self-descriptions, school and school classes, family, food, and community.

SPANISH II

Credit Value 1.00

The aim is to continue to lead to practical control of language skills, knowledge of the fundamentals of Spanish grammar, and familiarity with Spanish culture. Thematic units of study during the second year will include: weather, clothing, health, and community. Students will continue to develop their speaking and writing skills. A second, but no less important aim, is to sustain student motivation and interest throughout the critical second year of language study.

SPANISH III

Credit Value 1.00

Instruction at this level is designed to provide the student with greater facility in all the language skills. The student is given varied experiences in refining his or her communication skills via listening, speaking, reading, and writing activities. The student is given the opportunity to express original ideas, expanding his or her vocabulary through individual interests as well as through basal materials.

SPANISH IV

Credit Value 1.00

Instruction at this level is designed to provide the student with greater facility in all the language skills. The student is given varied experiences in refining his or her communication skills via listening, speaking, reading, and writing activities. In speaking and writing, the student is given the opportunity to express original ideas, expanding his or her vocabulary through individual interests as well as through basal materials. The materials include cultural studies aimed at providing an understanding of the major developmental trends in such areas as history, literature, art, music, sciences, and a variety of contemporary topics in newspapers, magazines, and current publications.

Supplemental Courses

SAT PREP- Required Grade 11

Credit Value .25

In this course students will review various procedural items including application for the taking the SAT, forms and ID's required on testing day, reporting of scores and NCAA Clearinghouse requirements etc. Students will then be taught test taking strategies and tips for the SAT, and participate in various practice tests and activities.

Indiana County Technology Center

PROGRAM OF STUDIES

Grades 10-12

Students wishing to attend ICTC must complete a shadow experience and be accepted into the program. To continue at ICTC students must have passing grades for all courses at Homer-Center. Students interested in ICTC should speak to the Homer-Center counselor.

AUTOMOTIVE TECHNOLOGY

Full Year
3 Credits/Year
To appreciate the complexities of the automotive industry, students will learn various repair procedures to accommodate today's computer-monitored, fuel-efficient, environmentally-friendly automobiles. Specialized training will include the repair and maintenance of internal combustion engines, including ignition, cooling, fuel injection, fuel systems, computer diagnostics and electrical systems. Students enrolled in the Automotive Technology (AT) program enjoy the benefits of a fully comprehensive Automotive Service Excellence (ASE) certified program. The course of study, facilities and program equipment have been evaluated by the National Automotive Technicians Education Foundation (NATEF) and meets the ASE standards of quality for the training of automobile technicians. Automotive Technology is a field of change. There is unlimited growth opportunity for students willing to pursue the most up-to-date training available in future automotive technologies.

Planned Courses

- Safe Use of Tools and Equipment
- General Automotive and Engine Maintenance
- NATEF Brakes
- NATEF Suspension and Steering Systems
- NATEF Electrical/Electronic Systems
- NATEF Engine Performance
- Automatic Transmission and Transaxle
- Manual Drivetrain and Axles
- Engine Repair
- Heating and Air Conditioning

Academic Courses

(Recommended & Required for Program of Study)

- *Algebra I*
- *Trigonometry*
- *Geometry*
- *Biology*
- *Chemistry*

Advanced Standing/Articulation Agreements

- Community College of Allegheny County
- Pennsylvania College of Technology
- University of Northwestern Ohio

Career Opportunities

- Automobile Technician
- Automobile Mechanic Helper
- Brake Repair
- Front End Mechanic
- Automotive Service Manager/Writer
- Heavy Duty Truck Technician
- Automotive Retail Salesperson

**Post-secondary education required*

CARPENTRY

Full Year

3 Credits/Year
Opportunity for success in the carpentry field is driven by knowledge and ability, enhanced by focused education and training. Students possessing creativity, independence, motivation, pride and enthusiasm for learning may want to explore carpentry as their career. Students receive instruction in all phases of residential carpentry beginning with design and layout and working through the final stages of interior and exterior finishing and trim installations. Students gain the entry-level foundation skills to enter either immediate employment or post-secondary training allowing them to choose from a variety of other carpentry-related fields. Carpentry-related theory and skills are taught using a competency-based instructional framework requiring students to demonstrate their ability to safely perform specific job-related tasks in order to prepare for the carpentry job market. Rapid advancement in technology impacts carpentry through improved tools, equipment and materials available. Carpentry students will become proficient in the use of the many new techniques, tools and equipment available in today's technological society. Field trips, on-site project experiences and repeated training in primary skill areas will prepare students for the career of a lifetime.
The students may attain an Occupational Safety and Health Administration (OSHA) ten hour training course in "Construction Safety & Health" as well as a training course on a Bobcat Versahandler Telescopic Forklift.

Planned Courses

- Safety Practices Roofing
- The Use and Care of Hand Tools Siding and Decks
- The Use and Care of Portable Power Tools Insulation and Wall Finish
- The Use and Care of Stationary Power Tools Interior Finish
- Related Wood and Wood Products Stair Framing
- Fasteners Cabinets and Countertops
- Blueprints, Codes and Building Layout Emerging Technologies
- Concrete Form Construction
- Floor Framing
- Wall and Ceiling Framing
- Temporary Work Platforms
- Roof Framing
- Windows and Doors

Academic Courses

(Recommended & Required for Program of Study)

- *Algebra I*
- *Algebra II*
- *Biology*
- *Chemistry*
- *Drafting*

Advanced Standing/Articulation Agreement

- Pennsylvania College of Technology
- **Dual Enrollment** opportunities with Pennsylvania College of Technology

Career Opportunities

- Carpenter*
- Construction Carpenter*
- Construction Management*
- Carpenter Helper

**Post-secondary education required*

ELECTRICAL OCCUPATIONS

Full Year
3 Credits/Year
The Electrical Occupations (EO) program enables students to gain the necessary foundational skills to become a residential and/or commercial electrician. The basic electrical theory for residential wiring includes 100 & 200 amp services, branch circuits and is based on the latest National Electric Code (NEC). A modern residence

blueprint serves as the basis for the wiring schematics and cable layouts. Focus is on the technical skills required to perform electrical installations. Topics covered include Arc Fault Circuit Interrupter and Ground Fault Circuit Interrupter NEC requirements, calculating conductor sizes and voltage drop, determining appliance circuit requirements, sizing service, grounding service and equipment. This program introduces students to the basics of three-phase wiring for commercial environments. Students learn to apply the latest NEC for wiring a commercial building in a step-by-step process. EO students will apply electrical standards to appliance circuits, branch-circuit installation, special systems, reading electrical and architectural drawings and calculating circuit loads for on-the-job assessments. Throughout the EO training at the ICTC, students will have practical applications and trouble-shooting projects to apply NEC theory. The students may attain an Occupational Safety and Health Administration (OSHA) ten hour training course in “Construction Safety & Health” as well as a training course on a Bobcat VersaHandler Telescopic Forklift.

Planned Courses

- Safety and Ethics in School and at Work
- Electrical Theory
- Care and Use of Hand Tools
- Low Voltage Circuits
- Basic Residential/Commercial Circuits
- Residential Wiring
- Commercial/Industrial Wiring
- Structured Wiring

Academic Courses

(Recommended & Required for Program of Study)

- *Algebra I*
- *Algebra II*
- *Biology*
- *Chemistry*

Advanced Standing/Articulation Agreement

- Pennsylvania College of Technology

Career Opportunities

- Electrician’s Helper
- Electrician-Residential
- Electrician-Commercial*
- Electrician-Maintenance*
- Manufactured Housing
- Lineman Apprentice*
- Electrical Engineering*

**Post-secondary education required*

Pennsylvania Builders Association (PBA) endorsed program

<u>MASONRY</u>

Full Year

3 Credits/Year

Creativity is a key ingredient leading to success in the Masonry (MA) program. A bricklayer takes units of brick, block, or stone and with a trowel, mortar, skilled hands and an eye for perfection molds them into buildings that will last for generations to enjoy. Just look around--every home, school, mall, church and sidewalk are part of a mason’s creative genius. Masonry may lead students to careers in bricklaying or stone-masonry and cement-masonry. The masonry program also provides an excellent foundation for a future in architecture and architectural engineering or a position as an estimator, a job foreman, landscape designer or even a self-employed mason. The students may attain an Occupational Safety and Health Administration (OSHA) ten hour training course in “Construction Safety & Health” as well as a training course on a Bobcat VersaHandler Telescopic Forklift.

Planned Courses

- Development and Manufacture of Masonry Materials
- The Use and Care of Tools and Equipment
- Mortar Mixing, Uses and Strengths
- Essentials of Bonding
- Masonry Practices and Details of Construction
- Cleaning Masonry Work
- Safety Practices
- Understanding and Reading Construction Drawing
- Design and Construction of Fireplace and Flue
- Fundamental Use of the Transit and Level
- Estimation of Materials
- Concrete Finishing, Forming, Strengths and Uses
- Laying Brick and Concrete Block

Academic Courses

(Recommended & Required for Program of Study)

- *Algebra I*
- *Algebra II*
- *Chemistry*

Advanced Standing/Articulation Agreement

- Pennsylvania College of Technology

Career Opportunities

- Bricklayer
- Bricklayer Supervisor*
- Cement Mason
- Stonemason
- Estimator*
- Building Inspector*
- Contractor
- Mason's Helper

**Post-secondary education required*

Pennsylvania Builders Association (PBA) endorsed program

<u>HEATING, VENTILATION, AND AIR CONDITIONING</u>

Full Year

3 Credits/Year

The Heating Ventilation and Air Conditioning (HVAC) program at the ICTC prepares students to apply technical knowledge and skill to install, repair and maintain domestic heating, cooling and electrical systems. Instruction includes theory of application of principles in electricity, heating, cooling, sheet metal fabrication, customer service, indoor air quality, residential house wiring, how motors work in refrigerators, air conditioners, etc. The students will master competencies in the areas of basic plumbing and air (duct) sizing. In addition, construction work is included as a requirement for this field. Students must have a desire to work with their hands and be able to troubleshoot and repair equipment.

Planned Courses

- Air Conditioning / Heat Pumps
- Heating: Gas / Oil / Electric
- Electricity
- Electric Motors / Motor Controls
- Sheet Metal Fabrication
- Basic Plumbing
- Indoor Air Quality
- National Electric Code

Academic Courses
(Recommended & Required for Program of Study)
- *Pre-Algebra*
- *Algebra*
- *Geometry*
- *General Science*
- *Metal Shop*

Advanced Standing/Articulation Agreement
- Westmoreland County Community College

Career Opportunities
- Controls Technician
- Electrician
- Sheet Metal Worker
- HVAC Service Technician
- Refrigeration Technician
- Business Owner

MACHINING TECHNOLOGY

Full Year
3 Credits/Year
Machining Technology (MT) is designed to provide each student with the latest technological skills needed for entry in the metalworking occupations. Students have the opportunity to operate state-of-the-art equipment, such as the Computer Numeric Controlled (CNC) machine. They also gain experience with the hands-on operation of standard machine tools used in the industry such as: drill presses, metal saws, lathes, milling machines and surface grinders. Related theory acquaints students with metal cutting applications, material properties, layout work, and construction and assembly of machinery. The application of mathematics and blueprint reading is also emphasized throughout the course as an integral part of all completed projects and competencies. The ICTC's MT program is a fully accredited NIMS (National Institute for Metalworking Skills) training and certification site. Students will have the opportunity to achieve NIMS Level 1 machining credentials as part of the course of study for the MT program. If students have patience and are willing to tolerate nothing less than perfection, a career in Machining Technology may be worth a look. The students may attain an Occupational Safety and Health Administration (OSHA) ten hour training course in "General Industry".

Planned Courses
- Safety Power Saws
- Performing Layout Work Maintain Machine & Tools
- Part Inspection Metallurgy
- Bench Work Use of Charts & References
- Drill Presses Blueprint Reading
- Operate Grinding Machines CNC Programming
- Operate Lathes Machining Mathematics
- Milling Machines

Academic Courses
(Recommended & Required for Program of Study)
- *Algebra I*
- *Geometry*
- *Trigonometry*
- *Biology*
- *Chemistry*

Advanced Standing/Articulation Agreements
- Pennsylvania College of Technology
- Westmoreland County Community College
- Pennsylvania Highlands Community College

- Dual Enrollment opportunities with Pennsylvania Highlands Community College

Career Opportunities

- Machinist Apprentice
- Tool & Die Maker Apprentice*
- CNC Operator*

**Post-secondary education required*

WELDING TECHNOLOGY

Full Year

3 Credits/Year

Welding has evolved into a sophisticated science and technology. Skills developed at the ICTC's Welding Technology (WT) program are immediately transferable to either a professional career as a welder or as a student enrolled at a community/technical college, university, or other post-secondary institution. Additionally, the curriculum provides excellent preparation for those whose career goals include becoming a welding, mechanical or metallurgical engineer. The ideal candidate for this field should have good mechanical aptitude, eye-hand coordination, imagination and excellent visualization skills. The ICTC's WT program is certified by the **American Welding Society (AWS)** as an Accredited Testing Facility (ATF). The accreditation provides qualified students the opportunity to become a certified welder in accordance with the American Petroleum Institute (API) 1104 Code or the American Welding Society's D1.1 Structural Steel Code. The students may attain a training course on a Bobcat VersaHandler Telescopic Forklift.

Planned Courses

- Basic Safe Work Practices
- Safe Fabrication Equipment Operations
- Oxy-fuel Cutting
- Oxy-fuel Welding/Brazing
- Shielded Metal Arc Welding
- Gas Metal Arc Welding (MIG)
- Gas Tungsten Arc Welding (Heli-Arc/TIG)
- Metallurgy (Study of Metals)
- Testing & Welding Inspection
- Blueprint Reading

Academic Courses

(Recommended & Required for Program of Study)

- *Algebra I*
- *Algebra II*
- *Geometry*

Advanced Standing/Articulation Agreements

- Westmoreland County Community College
- Pennsylvania College of Technology
- Pennsylvania Highlands Community College

Career Opportunities

- Arc Welder Apprentice
- Combination Welder Apprentice
- Welder Fitter Apprentice*
- Welding Engineer*
- Experimental Welder (R&D)*
- Weld Inspector*
- Welding Technician*

**Post-secondary education required*

The **American Welding Society** is a professional, international organization that guides the welding industry.

DIGITAL MEDIA TECHNOLOGY

Full Year
3 Credits/Year
When you use an iPod or cell phone, take a digital photo, listen to an MP3 file, surf the web, or order your favorite food at a kiosk, you have experienced the world of digital media. The Digital Media Technology (DMT) program provides training for students who wish to develop their skills in the stimulating world of electronic media. The program is designed to provide the educational starting point for students pursuing careers in web design, multimedia, animation, and video production. From mega social networking sites like Facebook or YouTube, commerce sites, flash animations or games operating on a cell phone, video for entertainment or advertising, digital media is found just about everywhere in today's society in almost every business. Students preparing for careers in web development and animation/multimedia will design and develop web sites and animations to be presented on the web and multiple media platforms. Students will plan, design, and develop websites using Adobe Dreamweaver software concentrating on the visual aspects of design. Students will continue to advance their skills by preparing 2D animations using Adobe Flash software. To apply their skills, students will maintain websites for local non-profit organizations. Designing for the web and interactive media is a rapidly evolving multi-billion dollar industry that is an essential part of business, education and the entertainment fields. The wide appeal of digital media has created an increasing need for people skilled in video production. Students preparing for careers in this field will gain experience with high definition and standard definition camera operations, lighting, scripting, audio, and editing techniques. Students will use Adobe Premiere software to create persuasive, informational, or entertainment videos. Advanced skills in special effects can be achieved through Adobe After Effects software. Students will produce videos for broadcast, DVD production, and podcasts. All students will use Adobe Photoshop software to prepare graphics for the web or video productions. Finally, students will create a digital portfolio to showcase their work.

Planned Courses

- Web Page Development & Design
- Customer Service/Communications
- Multimedia
- Graphics
- Digital Video Camera Operation
- Digital Video Lighting Techniques
- Digital Video Editing
- Digital Video Production
- Safety
- DVD Productions

Academic Courses

(Recommended & Required for Program of Study)

- *Algebra I*
- *Biology*
- *Chemistry*

Advance Standing/Articulation Agreements

- Pennsylvania Highlands Community College
- Westmoreland County Community College
- Pennsylvania College of Technology
- Douglas Education Center
- Dual Enrollment opportunities with Pennsylvania Highlands Community College

Career Opportunities

- Web Page Designer
- Video Editor
- Producer/Director*
- Multimedia Artist/Animator*
- Camera Operator

**Post-secondary education required*

GRAPHICS AND ELECTRONIC MEDIA

Full Year

3 Credits/Year

Graphics and Electronic Media (GEM) should be viewed as an introduction to a complex and constantly changing career field. The software packages and computer technology available today are able to assist in the production of a variety of media formats which previously were outsourced to printers or design agencies. Students who are motivated by change, technology and creativity find GEM to be the perfect educational setting. They are introduced to the areas of desktop publishing, graphic design, photo editing and illustration. Students learn to use the digital press, large format printer and sign plotter. They are encouraged to enhance their own creativity utilizing the most modern technology available. The program is designed to allow interested students to bring together many areas of creative graphic design and production technologies. Skilled graphic artists have a creative flair required to produce eye-catching publications as well as the talent and confidence to use up-to-date technology to output their creations. The ICTC's GEM program is a certified Graphic Arts Education and Research Foundation PrintED® National Accreditation Program. Qualified GEM students may elect to take the PrintED® Introduction to Graphic Communications, Digital File Preparation, and Advertising & Design certifications.

Planned Courses

- Introduction to Graphic Communications
- Environmental, Health safety, and First Aid
- Digital File Preparation I
- Image Capture I
- Color Theory
- Digital File Output
- Press Operations (Offset and Digital)
- Bindery Operations
- Measurement
- Basic Math
- Job Application and Interpersonal Skills
- Digital File Preparation II
- Type
- Page Layout
- Image Capture II
- Illustration
- Portable Document Format
- Design Principles

Academic Courses

(Recommended & Required for Program of Study)

- *Applied Math I & Algebra I*
- *Algebra II or Geometry*
- *Biology or Applied Biology*
- *Physics or Applied Physics*

Advance Standing/Articulation Agreements

- Pennsylvania Highlands Community College
- Westmoreland County Community College
- Douglas Education Center
- Dual Enrollment opportunities with Pennsylvania Highlands Community College

Career Opportunities

- Graphic Designer*
- Advertising Sales Agent*
- Desktop Publisher*
- Art Director*
- Electronic Illustrator
- Printing Press Operator & Tender/Bindery Person

**Post-secondary education required*

COMPUTER SYSTEMS TECHNOLOGY

Full Year

3 Credits/Year

The Computer Systems Technology (CST) program at the ICTC is designed to provide students with training for relevant certifications in the Information technology (IT) field. Employers welcome potential employees who have professional credentials or degrees. CST helps students gain the practical experience and knowledge needed to pass entry-level certification exams such as: A+, Network+ Server+, and Security+. **CompTIA's A+ CERTIFICATION** (Computer Technician, Computer Analyst, Engineer)A+ is an IT certification showing a person's proficiency in computer hardware and software upgrades, installation and troubleshooting skills. A+ - one year (1st year students) **CompTIA's NETWORK+ CERTIFICATION** (Network Administrator, Network Analyst, Network Technician), Network+ is an IT certification showing a person's proficiency with basic networking knowledge and skills. Network+ - one year (2nd year students)

THIRD YEAR SPECIALTY ELECTIVE COURSES:

CompTIA's SERVER+ CERTIFICATIONS

(Network Administrators, Systems Managers MIS, CIO) Server+ is an IT certification showing a person's proficiency with basic server installation, configuration, and management and troubleshooting skills.

Server+ - one semester (3rd year students) **CompTIA's SECURITY+ CERTIFICATION** (Security Specialist, Computer Forensics, FBI, CIA, Homeland Security) Security+ is an IT certification showing a person's proficiency with basic computer and network security issues. Security+ - one semester (3rd year students)

Planned Courses

- CompTIA's A+ Certification A+ - one year (1st year students) Planned Courses:
- PC Components Introduction to Networking
- Laptops and Portable Devices Security
- Operating Systems Safety and Environmental Issues
- Printers and Scanners Communication and Professionalism
- CompTIA's Network+ - one year (2nd year students) Planned Courses:
- Networking Fundamentals Fault Tolerance and Disaster
- Internetworking Fundamentals Recovery
- TCP/IP Fundamentals Troubleshooting
- Network Operating Systems

THIRD YEAR SPECIALITY ELECTIVE COURSES:

CompTIA's Server+ Certification Server+ - one semester (3rd year students) Planned Courses:

- Server Hardware Disaster Planning and Data Recovery
- Performance Monitoring Installation and Configuration of Network Operating Systems
- Troubleshooting
- *CompTIA's Security+ Certification Security+ - one semester (3rd year students) Planned Courses:*
- Systems Security Assessments and Audits
- Network Infrastructure Cryptography
- Access Control Organizational Security

Academic Courses/Advanced Standing

- (Recommended for Program of Study) Westmoreland County Community College
- Applied Math I and II Pennsylvania College of Technology
- Trigonometry or Solid Geometry **Dual Enrollment** opportunities with PA Highlands Community College
- Biology or Applied Biology
- Physics or Applied Physics
- Chemistry, Chemistry I or Applied Chemistry

Career Opportunities

- Basic Network Technician (LAN)
- Advanced PC Technician
- System/Network Analyst*
- Computer Systems Engineer*
- Security Specialist*

- Computer/Network Systems Administrator/Manager*
- A+ PC Technician (Bench/Field and Help Desk)
- Computer Programmer*

**Post-secondary education required*

COSMETOLOGY

Full Year
3 Credits/Year

The Cosmetology field combines talent, art, science and business, leading to a choice of rewarding careers. The Indiana County Technology Center (ICTC) Cosmetology (COSMO) program offers a state-of-the-art facility meeting all licensing requirements of the Pennsylvania State Board of Cosmetology. COSMO students learn anatomy, cosmetic chemistry, bacteriology and sanitation. Students are taught the professional hair, skin, and nail procedures. In the student-operated patron clinic, COSMO students gain practical work experience and essential communication skills as they cut, style and color the customer's hair; apply skin care treatments and makeup; perform manicures and pedicures; manage the salon including scheduling appointments, ordering supplies; stocking inventory; and selling products. All areas of this licensed profession are taught for a successful transition to the Cosmetology field. The COSMO program prepares students for the Pennsylvania State Board of Cosmetology License exams and provides a foundation for further training in business management, education, electrolysis, advanced aesthetics and nail technology. Enrolled students will have the opportunity to earn the required 1,250 hours necessary to attain a cosmetology license.

Planned Courses

- Identify Principles of Cosmetology Science
- Demonstrate Professional Practices
- Care for Hair and Scalp
- Manicuring
- Perm Wave
- Chemical Relaxing
- Facials Treatments
- Superfluous Hair Removal
- Hair Cutting
- Hair Coloring
- Hair Styling

Academic Courses

(Recommended & Required for Program of Study)

- *Algebra I*
- *Algebra II*
- *Biology*
- *Chemistry*

Advanced Standing/Articulation Agreements

- Pennsylvania College of Technology
- Douglas Education Center

Career Opportunities

- Hairdresser, Hairstylist & Cosmetologist
- General and Operations Manager*
- Vocational Education Teacher, Post-secondary*
- Vocational Education Teacher, Secondary*
- Salon Owner*

**Post-secondary education required*

CULINARY ARTS

Full Year
3 Credits/Year

Culinary Arts (CART) offers a wide range of career opportunities for those who enjoy preparing exciting cuisines and have an eye toward business ventures. This comprehensive program prepares students for positions in the rapidly-growing food service industry. The students' education is enhanced by participating in various catering projects and the operation of our full-service restaurant ---- these hands-on learning experiences help students refine table service and dining room management techniques. Career opportunities in restaurants, resorts, country clubs, hotels and motels as well as on cruise ships and airlines are abundant. According to the National Restaurant Association, the food service industry is expecting job growth due to lifestyle trends. The Indiana County Technology Center (ICTC) CART program offers the prestigious American Culinary Federation Foundation (ACFF) Accrediting Commission certification which meets the professional standards for culinary education. As an ACFF Certified Secondary Program, the ICTC CART program offers a certification which is a valuable credential awarded to qualifying seniors after a rigorous evaluation of professional education experiences and after thorough testing. Sanitation is one of the most important areas of concern in the restaurant industry today. The ServSafe course provides students information on the sanitary aspects of handling food including receiving, storing, preparation and serving. Upon successful completion of the **ServSafe** test, students will receive a **ServSafe** certification and will automatically become a member of the International Food Safety Council.

Planned Courses

- Introduction to Hospitality and Foodservice Industry
- Sanitation and Safety
- Business and Math Skills
- Food Preparation
- Garde Manager
- Basic Baking
- Purchasing, Receiving, Inventory and Storage
- Nutrition
- Dining Room Service
- Menu Planning
- Human Relations Skills

Academic Courses

(Recommended & Required for Program of Study)

- *Algebra I*
- *Algebra II*
- *Biology*
- *Chemistry*

Advanced Standing/Articulation Agreements

- Westmoreland County Community College
- Pennsylvania Highlands Community College
- Pennsylvania College of Technology
- **Dual Enrollment** opportunities with Pennsylvania Highlands Community College

Career Opportunities

- Cook
- Pastry Chef
- Kitchen Helper
- Food Service Manager*
- Chef*
- Baker

**Post-secondary education required*

HEALTH OCCUPATIONS TECHNOLOGY

Full Year
3 Credits/Year

Students who are caring, compassionate and possess critical thinking skills should check out Health Occupations Technology (HOT). Statistics from the Pennsylvania Department of Labor & Industry indicate that occupations in health care will continue to experience the highest growth rate. Students enrolled in the HOT program will also be enrolled in the Nurse Aide program during their first year. First year students will also be introduced to medical terminology and basic anatomy while learning about common disease conditions. Second year students will continue with medical terminology and begin a more in-depth course in anatomy and physiology as well as study human growth and development during their second or third year in the program. Also during either the first or second year in the program, students are introduced to the theory and skills associated with working as a home health aide. Third year students will initially focus on elements of medical assisting including learning the skill of medical transcription. In the second semester third year students will have the opportunity to explore either components of a pharmacy technician curriculum or components of a beginning nursing pharmacology class. Through scheduled clinical experiences at local long-term care facilities, students apply learned health care theory to actual “hands-on” clinical practice. Students who satisfactorily achieve 112 theory hours and 38 clinical hours may be eligible to take the PA Nurse Aide (NA) competency exam. Passing the NA exam provides immediate entry into the job market. Third year students will continue with some form of clinical experience which could include specific shadow experiences with staff from the Indiana Regional Medical Center as well as long term care facilities and an area day care.

Planned Courses

- Introduction to Allied Health Careers Crime & Violence Prevention
- Introduction to Nursing Assistance Residents Rights
- Legal and Ethical Standards of Health Professions Common Chronic & Acute Conditions
- Infection Control Mental Health & Social Services
- Safety and Emergency Care Home Health Aide
- Medical Terminology Human Needs & Development
- Communication Skills Personal Care Procedures
- Anatomy and Physiology Basic Nursing Procedures
- Pharmacy Technician

Academic Courses

(Recommended & Required for Program of Study)

- *Algebra I*
- *Algebra II*
- *Biology*
- *Chemistry*

Advanced Standing/Articulation Agreements

- Westmoreland County Community College
- Pennsylvania Highlands Community College
- Pennsylvania College of Technology
- Dual Enrollment opportunities with Pennsylvania Highlands Community College

Career Opportunities

- Nurse Assistant
- Medical Assistant
- Registered Nurse*
- Licensed Practical Nurse*
- X-Ray Technician*
- Physical/Occupational Therapist or Assistant*
- Surgical Technician*
- Physician’s Assistant*
- Medical Lab Technician*
- Pharmacy Technician*
- Massage Therapist*
- EMT or Paramedic*
- Respiratory Therapist*

**Post-secondary education required*

MISSION

The mission of the Indiana County Technology Center, an innovative regional career development and technology center in partnership with our member districts and the community is to provide all learners a safe, caring environment that includes the integration of a challenging technical and academic education with an emphasis on the development of skills which provides pathways to further education and employment in an ever-changing world.

GOALS

1. Advocate the critical role of career and technical education for quality education and workforce development.
2. Collaborate and partner with other education/community stakeholders to provide enhanced post-secondary opportunities for student success.
3. Expand and develop quality adult education programs.
4. Increase student achievement through the integration of academic and occupational standards.
5. Integrate technology into the instructional practices and operations of the ICTC.
6. Utilize all resources of the school in an artful manner.

ICTC LEADERSHIP ORGANIZATIONS

Student Challenge Program

The Challenge Program is a student incentive program designed to build a bridge between students in high school and the business community by providing cash awards for achieving specific goals in high school. High school sophomores,
juniors, and seniors are rewarded with cash prizes in the following categories: most community service, best overall Grade Point Average (GPA), best attendance, and most improved GPA.

Interact

Interact provides an opportunity to engage young people in meaningful community and international service activities. These activities are critical in developing work ethic, personal character and a broader understanding of the world. The members of the Rotary Club of Indiana serve as role models and mentors for the ICTC Interact students.

National Technical Honor Society (NTHS)

The goal of the ICTC Chapter of the National Technical Honor Society is to honor student achievement and leadership, promote educational excellence, and enhance career opportunities. Students who maintain a 94% overall grade point average or
above, show leadership skills, are involved in community service activities, exhibit positive attitude and good citizenship and are recommended by their instructor are invited to be part of the ICTC NTHS.

PA Builders Association (PBA) Student Chapter

With the cooperation and support of the Indiana-Armstrong Builders Association, the students enrolled in the carpentry, electrical occupations, heating ventilation and air conditioning, and masonry programs are eligible to become members.
The goal of the membership is to maintain high technical and academic standards while exchanging information and experiences with members of the local, state and national builders organization.

SkillsUSA

SkillsUSA is a partnership of students, teachers and industry representatives, working together to ensure America has a skilled workforce. It helps students who are preparing for careers in trade, industrial, technical and skills service occupations to excel. The various SkillsUSA activities help students develop leadership qualities through education, vocational, civic, recreational and social activities. Excellence in scholarship and

craftsmanship are developed through the local, state and national SkillsUSA leadership conferences and competitions.

IMPORTANT ICTC FACTS

The Indiana County Technology Center is a regional technology center dedicated to providing students with industry-certified technical and academic-enriched career programs. The school provides state-of-the-art equipment within a safe environment.

Through integrated technical and academic curricula, students learn theory and skills providing pathways to postsecondary education and/or employment in high growth and high-demand careers.

The curriculum written for each technical program area at the ICTC has been properly aligned with Pennsylvania State Standards in the following four (4) areas: reading/writing, mathematics, science, and career education and work standards.

Learning leadership skills, applying problem-solving skills, developing a positive attitude, and being a team player are some of the tenets of a positive work ethic regularly demonstrated by our staff for our students to emulate.

The secondary curriculum is organized around five cluster areas: Automotive Technologies, Construction and Building Trades, Engineering Technologies, Information Technologies, and Public Service Occupations.

All ICTC students have the opportunity to gain Advanced Standing at the postsecondary level. Students who complete required competencies will be granted credit through a pre-approved Articulation Agreement, with a noted university. Students who attend ICTC may be eligible to enroll in college courses through a partnership with Pennsylvania Highlands Community College and Pennsylvania College of Technology (Carpentry students only). Students who complete the required sequence of courses for Dual Enrollment purposes will save time and money while earning their credentials.

Students may earn three elective credits each year while enrolled in a technical program at the ICTC. Students may elect to schedule a one, two or three year experience at the ICTC.

Adult students may attend full or part-time classes during the day, if space permits.

The Indiana County Technology Center is an equal opportunity institution and will not discriminate on the basis of race, color, national origin, sex, handicap, or age in its activities, programs, or employment practices in accordance with the federal and state statutes and regulations. For more information regarding civil rights, grievance procedures, services, activities, and facilities that are accessible to and usable by handicapped persons, contact Mike McDermott, Title IX and Section 504 Coordinator at ICTC, 441 Hamill Road, Indiana, PA 15701, 724-349-6700 between the hours of 7:45 a.m. and 3:45 p.m. REV 10/08