



**Juniata Valley
Jr./Sr.
High School**

**Course Description
Booklet**

2017-2018

Mission Statement:

**The Juniata Valley School District prepares students
for life!**

GRADUATION REQUIREMENTS

Graduation from Juniata Valley High School will be based on the achievement in the four years represented by grades nine, ten, eleven, and twelve. Graduation requirements follow the state mandated requirements including a graduation project and additional requirements established by the Juniata Valley School District.

1. 4.0 credits of **English**

2. 4.0 credits of **Social Studies** to include the following:

- a. 9th Grade Early U.S History (1.0 credit)
- b. 10th Civics and Government (1.0 Credit)
- c. 11th Grade American History (1.0 credit)
- d. 12th Personal Finance / Economics (1.0 credit)
- e. World Cultures elective – any grade (1.0 credit)

3. 4.0 Credits of **Mathematics** to include Algebra I and Geometry or Algebra II, Consumer Math or Basic Accounting I.

- a. Students who complete programs at the HCCTC will earn 1.0 Mathematics credit.

4. 2.0 credits of **Fine Arts and Humanities**

- a. Students who complete programs at the HCCTC will only be required to take 1 year of Fine Arts and Humanities (.5 or 1 credit)

5. 4.0 credits of **Science** to include Biology (1.0 credits) and Ecology (1.0 credits)

- a. Students who complete programs at the HCCTC will earn 2.0 elective credits in science.

6. 1.00 of **Physical Education**

- a. Grade 9 or 10 – (.5 credits)
- c. Grade 11 or 12 – (.5 credits)

7. 1.0 credit of **Health**

- a. Senior High Health 1– (.5 credits)
- b. Senior High Health 2 – (.5 credits)

8. 1.0 credits of **Business, Technology, and Computer Software** to include Computer Applications 9

9. 5.0 credits of Electives (Once a requirement has been met in a discipline, elective credits will be issued for additional courses.)

- a. Students who complete programs at the HCCTC will earn 3.0 elective credits.

Total: 26.00

****Any three or four credit college course would count as one high school course in the appropriate area above.***

The minimum number of credits needed for promotion to tenth grade is six (6), to eleventh grade is twelve (12), and to twelfth grade is eighteen (18). A subject must be fully completed to earn credit. Partial credit will not be given. Six credits must be taken during the senior year.

In addition to courses offered at Juniata Valley High School, students may enroll in courses at the Huntingdon County Career and Technology Center, or other online providers such as Lincoln Interactive (fee required). Credits earned in all settings in grades 9-12 will be applied toward graduation. Students completing studies under an Individual Education Plan (IEP) and/or Gifted Individual Education Plan (GIEP) must achieve the goals of the IEP and/or GIEP to graduate, including those of the required transition plan.

RECOMMENDED COURSES FOR POSTSECONDARY PLANNING (Grades 9- 12)

4-Year College Preparation

In order to consider attending a four-year baccalaureate program, the following courses are necessary, especially if no one particular college is a final selection at this point.

Four years of English (preferably college prep or honors); four years of social studies; four years of science; four years of mathematics including Algebra I, Plane Geometry, Algebra II, and Trigonometry or College Algebra; one semester each of the following courses: computer, finance and economics; two to four years of a foreign language; two years of health; three years of physical education; plus, remaining electives.

2-Year College Preparation

Four years of English; four years of social studies; four years of science; four years of mathematics (including algebra and geometry); one semester each of the following courses: computer, finance and economics; two years of health; two years of physical education; four years of career preparation courses in a particular area such as agricultural studies, business technology, or a HCCTC program.

1 to 2-Year Technical/Trade School Preparation

Four years of English; four years of social studies; four years of science; four years of mathematics (including algebra and geometry); one semester each of the following courses: computer, finance and economics; two years of health; two years of physical education; three or four years of career preparation courses in a particular area such as HCCTC (Huntingdon County Career and Technology Center) program offerings or agricultural studies or business technology.

School-to-Work Programs

Students who intend to go directly to work and who have had the opportunity to train (primarily at HCCTC or a family business) and to complete required certifications are still expected to enroll in: four years of English; four years of social studies; four years of science; four years of mathematics; two years of health, two years of physical education;

and four years of a work-related program which must include one semester each of the following courses: computer, finance and economics.

REQUIRED CLASSES

Junior High

GRADE 7

- English 7
- Reading and Writing Skills 7
- Math
 - **Core Math 7**
 - **Accelerated Core Math 7**
 - **Core Math 7 Lab**
- General Science 7
- World Geography 7
- Rotation (5-day rotation)
 - **Typing**
 - **Health**
 - **Physical Education**
 - **Introduction to Library Science**
 - **Music**
- Electives: Art/Chorus/Band

GRADE 8

- English 8
- Reading and Writing Skills 8
- Math
 - **Core Math 8**
 - **Core Math 8 Lab**
 - **Honors Algebra I**
- General Science 8
- World Studies 8
- Rotation (5-day rotation)
 - **Art 8**
 - **Introduction to Agriculture 8**
 - **Health**
 - **Physical Education**
 - **Career Counseling and Social Skills**
- Electives: Art/Chorus/Band

Senior High

GRADE 9

- English 9 (Honors, College Prep or Applied)
- Math
 - Algebra I**
 - Honors Algebra II**
- Ecology
- Early U.S. History
- Health I and Physical Education
- Computer Applications
- Electives – 2.0 credits

GRADE 10

- English 10 (Honors, College Prep or Applied)
- Math
 - Algebra I**
 - Algebra II CP**
 - Honors Geometry 10**
 - Plane Geometry (CP)**
- Biology
- Civics and Government
- Health II and Physical Education
- Electives – 3.0 credits

GRADE 11

- English 11 (Honors, College Prep or Applied)
- Math
 - Algebra I**
 - Algebra II**
 - Plane Geometry**
 - College Algebra & Trigonometry**
 - Intermediate Algebra**
 - Math for the Trades**
 - Accounting I**
- Science
 - Chemistry**
 - Animal Science/Natural Resources**
 - Earth Science**
- American History
- Health II and Physical Education
- Electives – 3.0 credits

GRADE 12

- English 12 (Dual Enrollment, Honors, College Prep or Applied)
- Personal Finance/Economics (1.0 credit)
- Math
 - Math for the Trades**
 - Plane Geometry**
 - Algebra II**
 - College Algebra & Trigonometry**
 - Intermediate Algebra**
 - Pre-Calculus / Calculus**
 - Accounting I**
- Science
 - Earth Science
 - Natural Resources/Animal Science
 - Physics (Prerequisite Chemistry)
 - Organic Chemistry (Prerequisite Chemistry)
- Electives – 4.0 credits

26 total credits needed for graduation in grades 9 through 12

LANGUAGE ARTS

ENGLISH

100 English 7:

This course will complement the 7th grade Reading and Literature course. Students will do various types of writing activities to prepare them for both the PSSA test, as well as future high school writing assignments. Students will explore narrative, persuasive, and informative writing, as well as poetry and free writing. Grammar instruction will go hand in hand with the writing, but students will be doing separate grammar lessons and exercises, particularly with more difficult concepts. Students will also keep a journal and write in it on a weekly basis. The journal will be a collection of various assignments and prompts assigned by the teacher. (1.0 cr)

101 Reading and Literature 7:

This course will complement the students' English and writing course. However, it will primarily focus on building reading skills through the reading of and written response to a wide variety of literary genres in conjunction with the Glencoe Literature textbook. Reading skills are also heavily focused on through the Accelerated Reader Program, Study Island, and PSSA Coach. Vocabulary skills will be taught through an organized weekly vocabulary program. (1.0 cr)

102 Reading and Literature 7 Springboard:

This course will complement the students' English and writing course. However, it will primarily focus on building reading skills through the reading of and written response to a wide variety of literary genres in conjunction with the *Springboard* workbook. Reading skills are also heavily focused on through the Accelerated Reader Program, Study Island, and PSSA Coach. Vocabulary skills will be taught through an organized weekly vocabulary program. (1.0 cr)

103 Reading and Writing 8:

This course is a supplementary course to the regular English class and will focus on preparing students for the PSSA exams. Students will learn reading and writing skills through guided lessons and independent work. Throughout the year, students will read and analyze various types of literature and complete different types of writing assignments. The computer-based program Study Island, as well as the PSSA Coach Book, will be used in class regularly. These materials focus specifically on teaching content and skills related to the PSSA. Accelerated Reader is also a part of this course and each week students will be given one class period to read their AR books. (1.0 cr)

106 English 8:

This course includes a comprehensive study of grammar (parts of speech, subject-verb agreement, and sentence structure) and punctuation (end marks, commas, etc.). Writing is emphasized through various writing assignments including short stories, poems, and personal essays across three domains: narrative, informative, and persuasive. Vocabulary is presented through an organized vocabulary program, words from literature, and literary terms. Literature highlights American folklore, short stories, poetry, the novel *The Pearl*, and the drama *The Diary of Anne Frank*. (1.0 cr)

112AC English 9 – Honors:

This is a highly intensive instructional area for the student hoping to take Advanced Placement English and for the student planning on attending college. Emphasis will be placed on literature and written response to literature. Grammar and usage will be taught through various writing responses and students will be expected to follow a demanding reading schedule. Independent, critical, and creative thinking will be essential learning tools as we work through essays, novels, poetry, plays, and short stories. Class discussion and communication skills will be polished, as will note-taking skills. There will be numerous supplemental activities to enhance the typical 9th grade literature and writing program. An intensive vocabulary curriculum will be addressed, along with PSSA preparation. There will be a wide variety of test assessments and activities. A thorough evaluation of Shakespeare's *Romeo and Juliet* will be a core part of the program. This is a weighted course. Prerequisite: Student must have recommendation of English department. (1.0 cr)

112CP English 9 – College Prep:

This course focuses on preparing students for higher grade level work in literature, writing, and communication. Students will cover a wide variety of literature and writing techniques, including in-depth examination of Shakespeare's, *Romeo and Juliet*, Harper Lee's, *To Kill a Mockingbird*, and Homer's, *The Odyssey*. In addition to these works, students will be reading a wide variety of poems and short stories. Throughout the year, students will spend time analyzing these various literary genres through discussion and writing. This course also includes the review and development of grammar, usage, and mechanical skills introduced in earlier grades as well as weekly vocabulary lessons. (1.0 cr)

112 English 9:

This practical approach to reading and writing skills will focus on the writing process as a whole and will examine paragraph construction, 5 paragraph essay writing, editing skills, proof reading skills, and basic writing skills. Students will study the skills necessary for passing the PSSA test, as well as communication skills needed for writing across the curriculum. Hands-on projects and various assessments will give the students the opportunity to explore literature. Technology will be a component of this course. Weekly vocabulary will prepare students to be life-long learners and productive members of the workforce. Students will learn note taking skills, as well as grammar and usage basics. (1.0 cr)

114AC English 10 – Honors:

This course includes a comprehensive study of classic literature through the reading of and the written response to Shakespeare, novels, short stories, plays, and/or poetry. Grammar is presented through a review of phrases, clauses, and usage, with a heavy emphasis on the comma. In addition to words from literature, and/or literary terms, vocabulary requirements are met through an organized vocabulary program through Shostak's *Vocabulary Workshop*. Students will complete a thorough book review and research paper, as well as specific group and/or individual research projects, which are held to a collegiate-like level of scrutiny. This is a weighted course.

Prerequisite: Students must have a recommendation from the English department. (1.0 cr)

114CP English 10 – College Prep:

English 10 includes a comprehensive study of literature through the reading of and the written response to Shakespeare, novels, short stories, plays, and/or poetry. Grammar is presented through a review of phrases, clauses, and usage, with a heavy emphasis on the comma. Vocabulary requirements are met through an organized vocabulary program, words from literature, and/or literary terms. Students will complete a thorough book review and research paper, as well as specific group and/or individual research projects. (1.0 cr)

114 English 10:

This course is focused towards students likely to enter the workforce upon graduation. Literature and reading is practiced through the reading of contemporary novels, stories, and essays. Vocabulary is improved through a weekly vocabulary program. Grammar and punctuation requirements are met through a review of general rules that can be practically applied in writing. Writing and composition is emphasized through the construction of several basic narratives, informational, and persuasive essays, which are applicable to the world of work and determined by the Pennsylvania State Standards. (1.0 cr)

115AC English 11 – Honors:

This course involves high levels of American Literature and writing combined to prepare the most advanced students for college preparation. Students taking this course must be prepared to read more than one piece of distinguished American literature at a time, and juggle more than one assignment at a time. Writing is a major component of this course and it will help prepare students for PSSA and S.A.T./A.C.T. testing. Emphasis in writing and literature will strongly include analysis, purpose, inference, and symbolism found within American literature. Accelerated students will be preparing to take the Advanced Placement course their senior year. An in depth, accelerated vocabulary course will be taught with the inclusion of Latin/Greek roots. Resume and cover letter writing are also included in this fast-paced course. Independent and critical thinking skills are encouraged and fostered in this course. This is a weighted course.

Prerequisite: Student must have recommendation of English department. (1.0 cr)

115CP English 11 – College Prep:

This course includes an in-depth study of American Literature. Included will be short stories, poetry, essays, and novels written by America's most distinguished and remembered authors. Emphasis will be placed on analysis of material. Writing will be a major component of this course, focusing on skills for the PSSA and future college courses. These writings will include essay responses, research and writing, poems, guided writing prompts for PSSA testing, and journal writing. A resume and cover letter will also be completed, as well as a comprehensive study of college prep/S.A.T. prep vocabulary. This vocabulary study will prepare students for S.A.T. and A.C.T. testing. There will also be the reading of Shakespeare's *Hamlet* or possibly a comedy by Shakespeare. All students will be exposed to Latin/Greek vocabulary roots for S.A.T. testing. Grammar will be taught within writing skills to prepare the student for college level writing. (1.0 cr)

115 English 11:

This is a course for the student who is more likely to enter the workplace after graduation. It will target needed PSSA areas by working on the applications needed to be proficient on the PSSA test. This course will also provide a wide variety of writing and communication skills. Students will be engaged in note-taking and career preparation activities, along with in depth work on their graduation project. Hands-on and writing activities will accompany literature units. Workplace communications and writings will also be covered, as well as practical grammatical issues. (1.0 cr)

123 College English 12:

This course is based on a syllabus prepared in conjunction with Mount Aloysius College and can be taken for 3.0 college credits. (1.0 cr)

118AC English 12 – Honors:

This course includes an intense study of British authors and their writings. The study is addressed through the readings beginning with the Old English Period and continuing through the Modern and Post-modern Periods. Readings include novels, short stories, essays, plays, letters, speeches, and poetry. Students' writing will be addressed through responses to literature and numerous supplemental writing assignments representing all styles. Emphasis will be placed on analysis of the material and identification of the authors' use of literary devices. This fast-paced course will also emphasize research using the APA format. This course will also address all material the college prep English 12 course will. This is a weighted course.

Prerequisite: Student must have recommendation of English department. (This is for the first year. Any subsequent years will be AC English 10 and 11.) (1.0 cr)

118CP English 12 – College Prep:

This course includes a study of British authors and their writings. The study is addressed with readings beginning with the Old English Period and continuing through the Modern and Post-modern Periods. Readings include novels, short stories, essays, plays, letters, speeches, and poetry. Students' writing will be addressed through responses to literature and numerous supplemental writing assignments touching on all styles. More emphasis will be placed on reacting to the readings through student writing in preparation for college writing. Review of literary devices based on prior knowledge. The APA format for research will be introduced with the research paper requirement. The essay response will also be emphasized to prepare students for college freshman composition. (1.0 cr)

118 English 12:

This English course is for the student not furthering his/her education upon graduation from high school. This includes an exposure to British authors and their writings. This exposure will concentrate on comprehension and analysis through written and oral responses. Emphasis will be placed on grammar, usage, and mechanics with supplemental materials for practice. The various forms of written and electronic communication will be studied with emphasis placed on the skills needed in the work place. (Supported by presentations/discussions with local business leaders.) (1.0 cr)

119 Literature Remediation:

Students will prepare to achieve a proficient or advanced level on the Keystone Assessment. The course will focus on state standards in mathematics. The class will meet two, three, or five days per week depending on grade level and remedial need. (0.5 cr)

131 PSSA Reading Remediation:

Students will prepare to achieve a proficient or advanced level on the PA State System of Assessment. The course will focus on state standards in reading. The class will meet two, three, or five days per week depending on the grade level and remedial need. Grades 7-8. (0.5 cr)

134 ESL (English/Second Language):

This program features essential language components, authentic communication, and academic support services to enhance success in all areas of the curriculum for students whose second language is English. Grades 7-12. Approval of Student Personnel Services Coordinator.

127 Library Media:

The seventh-grade library media class at Juniata Valley High School will teach students information and technology skills and assist them in developing information literacy, a skill necessary to meet the common core standards of Pennsylvania as well as to ensure that students will be successful in "College, careers, and life." As a digital citizen of the 21st century, students need to be knowledgeable of how to access the plethora of digital resources available on the internet through websites and databases. The course would run on a 9-week or semester schedule with seventh-grade students attending on a rotational basis. Each student would be taught the basics of research as outlined in Mike Isenberg and Bob Berkowitz's "Big 6" model, which, according to their website, includes the following: *The Big 6 integrates information search and use skills along with technology tools in a systematic process to find, use, apply, and evaluate information for specific needs and tasks.* Being able to independently access, evaluate, and use information and resources is an ability that promotes personal satisfaction and supports the overall curriculum.

128 Media Production:

The media production course will introduce students to a variety of media skills. Students will learn graphic design basics and video-editing skills through work with a variety of print and video mediums. Students will assist in the design and promotion of the JV yearbook. In addition, students will produce the senior video, as well as other videos for the school. Finally, the students will learn to research, write, plan, and present media campaigns using traditional and emerging methods. Grades 10-12. (1.0 cr)

165 Journalism:

This course is designed for students in grades 9-12 who have an interest in gaining more experience with journalism. This includes article writing, article research, interview skills, basic photography, and editing. Students enrolled in this course will be expected to complete weekly assignments related to journalism, such as writing mini-articles and reporting on issues both in and outside of school. Students will also be given the opportunity to write articles for the *Daily News*. As a class, we will decide if we can bring back a school newspaper or school flier that could be made available to students and faculty on a monthly or perhaps weekly basis. (1.0 cr)

150 SAT Prep Verbal:

This one semester course is designed to help prepare students for the SAT test. Instruction, followed by extensive, collaborative, guided, and independent practice, provides the foundation for the course. Students will become familiarized with the test format, learn test taking and problem solving strategies, and gain confidence by taking ten practice tests. Upon completion, students will be more prepared to succeed and possess the tools necessary to complete the SAT to the best of their abilities. (0.5 cr)

142 Spanish I:

This course is an introduction to the language and culture, including listening, speaking, reading, and writing. Students will be using vocabulary, understanding grammar concepts, and exploring culture. The students will learn these topics by using the following actions: viewing visual vocabulary, listening to pronunciation, conversing in dialogs, performing hands-on projects, viewing cultural videos, applying previous knowledge with review games, reading stories, writing sentence structure, and using technology for understanding of the language. Grades 9-11.

Prerequisite: Final grade of C or higher in previous year's English class. (1.0 cr)

144 Spanish II:

The skills learned in the first year will be strengthened and further developed by studying more grammatical structures, enlarging vocabulary, and increasing communication in the language. Students will be using vocabulary, understanding complex grammar concepts, and exploring culture. The students will learn these topics by using the following actions: viewing visual vocabulary, listening to pronunciation, conversing in dialogs, performing hands-on projects, viewing cultural videos, applying previous knowledge with review games, reading stories, writing complex sentence structure, and using technology for understanding of the language, and using an interactive online plot software tool. Grades 10-12.

Prerequisite: Final grade of C or higher grade in Spanish I. (1.0 cr)

146 Spanish III / 148 Spanish IV:

Students gain language competency as they progress through intermediate and advanced grammar skills and vocabulary and communicate in Spanish. Students will be using vocabulary, understanding and constructing complex grammar concepts, exploring culture, and using the language verbally in the classroom. The students will learn these topics by using the following actions: viewing visual vocabulary, listening to pronunciation, conversing in dialogs, performing hands-on projects, viewing cultural videos, applying previous knowledge with review games, reading stories and literature pieces, writing and constructing complex sentence structure, and using technology for understanding of the language, and using an interactive video plot online software tool. Grades 11-12.

Prerequisite: Final grade of C or higher grade in Spanish II/III. (1.0 cr)

SOCIAL STUDIES

200 World Geography 7:

This course is designed to provide the student with a thorough knowledge of local, national, and world geography. Emphasis includes, but is not limited to, the solar system, the earth's physical features, climate zones, human interaction with the environment, and political boundaries. (1.0 cr)

202 World Studies 8:

This course is intended to develop an appreciation for humankind's constant striving for a higher level of culture and a more democratic life. An emphasis is placed on: contributions that other peoples have made to society, America's place in the world, and an understanding of the effects of environment, climate, and resources in our world. (1.0 cr)

204 Early United States History 9:

The Europeans, the settlement and the growth of the thirteen colonies and the western movement and settlement of the West will be covered in this course for students to gain a thorough knowledge of the early discovery of America. Major areas of study include, but are not limited to, the forging of a new nation, the establishment of the United States and the United States Constitution. This course will conclude with the events leading to and the outcome of the Civil War. (1.0 cr)

206 World Cultures Elective:

This course is an elective course and is designed to provide the student with specific knowledge of geographic, cultural, economic and social aspects of major foreign nations that are quite different from those of the United States. The students will learn about different major world religions and how they affect governments and people of the world. The students will learn about forms of government and economic systems different from their own and explore how these differences effect relations among nations. (1.0 cr)

208 American History:

This course will give students an overview of the 20th century and emphasize the growth of the United States as a world power. The students will study the past in order to find their place in the present and to plan for their future. Major areas of study include, but are not limited to: Reconstruction, The Progressive Era, World War I, the Stock Market Crash, World War II, the Korean War, the 50s and 60s, the Vietnam War, and the changes in the American Society during the 70s, 80s, 90s, and into the 21st century. Grade 11. (1.0 cr)

208AC HIS 110 – US History II:

Reconstruction to Present: This course focuses on the history of the United States from the Gilded Age, Western Expansion, the World Wars and the Great Depression, and the Cold War through to America's leadership role as the sole superpower today. Major events will be introduced and analyzed along with political, economic, social and cultural challenges that faced America. In addition, the roles of the Native Americans, African-Americans, immigrant cultures and women will be explored in sections of the course. Eligible for college credit through Penn Highlands Community College. (3.0 college credits) (1.0 cr)

211 Government & Civics:

This course is designed to develop an interest and essential understanding of government at the local, state, and national levels. It provides a basis for understanding democracy in comparison to other forms of government. This course will also give the students the foundation to become active participants in the governmental process. Grade 10. (1.0 cr)

220 SOC 100 – Introduction to Sociology:

This is an introductory course that will familiarize the student with the basic principles and theories associated with sociology. This course will prepare students to look critically at a variety of social issues. Critical thinking is emphasized as students are provided thought provoking opportunities in challenging them to examine their diverse world. Eligible for college credit through Penn Highlands Community College. (3.0 college credits) (1.0 cr)

221 Current Social Issues:

Students will explore current issues within the American Society and the Global Community we interact. The students will complete the exploration through various media outlets and utilize a variety of technology tools to complete the exploration. Students will have the opportunity to voice their thoughts, questions and opinions on a day to day discussion within class. Students will track the current events through the formation and completion of a portfolio. (1.0 cr)

213 Intro to Psychology:

Topics include brain and the behavior, perception and sensation, learning, human development, experimentation and abnormal psychology. The study of psychology, focusing on personality, intelligence, gender difference, dreams, therapy, and sociocultural influences. Classroom discussion is required along with readings from the text. The goal of this course is for students to better understand human behavior. (1.0 credit)

MATHEMATICS

300 General Core Math 7:

This course includes a review of integers and rational numbers. Students will also cover inequalities, ratios, rates and Proportions. Operations with percent's, decimals, and fractions will also be covered. There may also be an introduction to Geometry. Permission of Grade 6 math teacher. (1.0 cr)

302 Core Math 7 College Prep.:

This course is intended to introduce concepts of algebra, such as working with variables, evaluating expressions, solving equations and inequalities, and graphing. Concepts of integers, rational numbers, measurement, ratio, proportion, percent, and basic geometry are included. Surface area and volume as well as the analyzing of data and probability will also be covered. Permission of Grade 6 math teacher. (1.0 cr)

304 Accelerated Core Math 7:

This accelerated course is intended to introduce concepts of algebra, such as working with variables, evaluating expressions, solving equations and inequalities, and graphing. Concepts of integers, rational numbers, measurement, ratio, proportion, percent, and additional instruction in

geometry are included. There will also be an introduction into functions. Permission of Grade 6 math teacher. (1.0 cr)

Core Math Lab 7:

This course will reinforce the 7th grade math concepts covered in the core math course. We will use various techniques and strategies to better master core math skills. Activities may include math fluency drills, individual and/or group practice activities, cumulative review, online practice, problem solving applications, and extensions. Small groups will be used to differentiate instruction, allowing for remediation and/or acceleration, based on the needs of the group.

305 Core Math 8:

This course is intended to introduce concepts of algebra, such as working with variables, evaluating expressions, solving equations and inequalities, and graphing. Concepts of real numbers, integers, rational numbers, exponents, measurement, basic geometry, transformations, and data analysis are included.

Core Math Lab 8:

This course will reinforce the 8th grade math concepts covered in the core math course. We will use various techniques and strategies to better master core math skills. Activities may include math fluency drills, individual and/or group practice activities, cumulative review, online practice, and problem solving applications and extensions. Small groups will be used to differentiate instruction, allowing for remediation and/or acceleration, based on the needs of the group. (1.0 cr)

312 Consumer Math:

Consumer Mathematics will focus on the topics of: The Mathematics of Trades and Professions, Banking and Credit as well as Personal Finance and Investments. Consumer Mathematics is a comprehensive course focusing on consumer applications of math. It includes problem-solving strategies and alternate methods of computation to solve a wide range of consumer problems, and it also employs basic math skills. (1.0 cr)

318H AC Algebra I 8 (AC):

This accelerated course includes a study of number relations, linear and quadratic equations, formulas, operations with polynomials, special products and factoring, inequalities, and algebraic fractions. Verbal problems for the application of most of the above areas are used throughout the course.

Prerequisite: Grade of C or higher in Pre-algebra (AC) and permission of instructor. (1.0 cr)

318 Algebra I:

This course includes a study of number relations, algebraic equations and inequalities, graphing functions, linear equations, systems of equations and inequalities, exponents and exponential functions, and an introduction to operations with polynomials and factoring. Word problems are used to illustrate applications of the above concepts throughout the course. Grades 9-12. Permission of instructor. (1.0 cr)

319H Algebra II (Honors):

This accelerated course includes a study of number sets and their axioms, equalities and inequalities, both linear and quadratic. Emphasis is placed on the algebra of relations and functions, including the geometric interpretation of conic sections. Grade 9. This class is weighted.

Prerequisite: Student must obtain a *Proficient* score on the PSSA and Keystone exams in order to take this course (1.0 cr)

319 Algebra II:

This course includes a study of number relations, algebraic expressions, equations and inequalities, polynomials, rational expressions, and irrational and complex numbers. Word problems for the application of most of the above areas are used throughout the course. Grades 11-12.

Prerequisite: Algebra I and Plane Geometry plus permission of instructor. (1.0 cr)

330 Plane Geometry:

This course is intended to develop the student's logic and reasoning skills, through the use of both proof and application problems. Course content includes geometric figures, congruence, lines and planes in space, polygons, similarity, the circle, Pythagorean theory, perimeter, area, volume, surface area, and two and three dimensional shape properties. This course moves at a steady pace and places less emphasis on the 2-column proof. Grades 10-12.

Prerequisite: Algebra I and Algebra II plus permission of instructor. (1.0 cr)

330H Plane Geometry (Honors):

This accelerated course is intended to develop the student's logic and reasoning skills, through the use of both proof and application problems. Course content includes geometric figures, congruence, lines and planes in space, polygons, similarity, the circle, Pythagorean theory, perimeter, area, volume, surface area, and two and three dimensional shape properties. This course moves at a more rigorous pace and is an excellent course to prepare for any type of computer programming or math-related college major. Grades 9-10. This class is weighted.

Prerequisite: Algebra I AC and Algebra II AC plus permission of instructor. (1.0 cr)

331 College Algebra/Trigonometry:

This course includes ½ year of advanced algebra and ½ year of trigonometry which will prepare the student for college mathematics. Topics to be covered will include equations and graphing, linear systems, functions and inverse functions and properties, the complex number system and roots, conic sections and properties, right triangle trigonometry, trigonometric functions, trig identities and graphs, the Law of Sines and Cosines as well as radian measure and polar coordinates. This course will be conducted at a more rigorous pace and will provide the students with the foundations for college mathematics. This course is weighted. Grades 10-12. (1.0 cr)

Prerequisite: Algebra II, Plane Geometry, and recommendation of instructor(s). Eligible for college credit through Penn Highlands Community College. (3.00 college credits)

332 Intermediate Algebra:

This course is designed to prepare students for higher level mathematics through a mastery of algebraic concepts. Topics include factoring, laws of exponents, polynomials, equations and inequalities (including linear, quadratic, and absolute value), graphing (using linear equations and inequalities), systems of equations and inequalities, functions, rational expressions and radicals. Eligible for college credit through Penn Highlands Community College. (3.00 college credits)

333 Pre-Calculus:

This course is designed for the student who needs to strengthen the algebraic and geometric skills necessary for calculus. The student will use trigonometric functions, curve plotting, determinants, relations, graphs, logarithms, exponential functions, inequalities, ratios, sequences and series, and limits. Semester. Grades 11-12. This course is weighted.

Prerequisite: Trigonometry and permission of instructor. Eligible for college credit through Penn Highlands Community College. (3.00 credits)

334 Calculus:

This course covers the derivatives of algebraic and basic trigonometric functions, anti-derivatives, integral functions of one variable and their applications, limits and continuity. Semester. Grades 11-12. This course is weighted.

Prerequisite: Pre-calculus and permission of the instructor. Eligible for college credit through Penn Highlands Community College. (4.00 credits)

290 SAT Prep Math:

This one semester course is designed to help prepare students for the SAT test. Instruction, followed by extensive, collaborative, guided, and independent practice, provides the foundation for the course. Students will become familiarized with the test format, learn test taking and problem solving strategies, and gain confidence by taking ten practice test. Upon completion, students will be more prepared to succeed and possess the tools necessary to complete the SAT to the best of their abilities. (0.5 cr)

335 Mathematics for the Trades:

This course equips students with a solid foundation in the math needed for a variety of technical and vocational trades, such as allied health, electrical trades, plumbing, construction, and many more. The math concepts are presented completely within the context of practical on-the-job applications, so students can make an impact on the job from day one. (1.0 cr)

FINE ARTS AND HUMANITIES

ART**700 Art 7:**

This class offers a broad range of visual art experiences based on art works and styles of various cultures and times in history. The lessons present art concepts and styles and help increase cognitive learning. The studio lessons provide manipulative experiences that build on the narrative lesson and give students the opportunity to use various media and techniques. Quarter. (.25 cr)

701 Art 8:

This course will further expand students' knowledge and exploration of art mediums including sculpture, clay and drawing. In this class students will also study art history, specific artists, styles and periods. This course meets daily for one marking period. Quarter. (.25 cr)

702 Art 9:

Art 9 is a drawing class. The students will learn various traditional and experimental techniques such as graphing, contour drawing, shading techniques using tortillons line drawing, perspective, and the basics of realistic drawing. Portrait, figure drawing, still life, and landscape subject matters are covered. The students will work with a variety of materials,

degrees of pencil, graphite, charcoal, kneaded erasers, pastels, and the colored pencils.

Prerequisite: B or higher in Art 7. Semester. (0.5 cr)

704 Art 10:

The Art 10 program is designed to challenge the students' talents and to develop techniques in many different types of media. Among these will be continuing pastel work, painting using acrylic paint on canvas, clay sculpture using Fimo polymer clay, and pen and India ink techniques. Students will also study master artists on their techniques through the use of videos, art appreciation and art history through the use of prints, videos, and the textbook Art in Action.

Prerequisite: B or higher in Art 9. (1.0 cr)

707 General Art:

This art course includes the descriptions for Art 704, 705, and 706. It is designed for students who cannot schedule elective art with their regular class. Semester or year. Grades 10-12. Permission of instructor required. (1.0 cr)

708 Art Assistant:

The Art Assistant program is designed to assist the art teacher in keeping the art room and supplies inventoried, as well as doing in-house art projects. The art assistant may be asked to assist in setting up showcases, bulletin boards, and art shows throughout the year. The art assistant will also use the facilities and materials of the art room to create artwork of his/her own throughout the year. The program is designed for a small select group of hard working art students who want to help with all the extra projects the Art Department becomes involved with during a school year. Grades 11-12.

Prerequisite: Art 9 and Art 10 with a B or higher. Permission of instructor required. (0.5 or 1.0 cr)

MUSIC

740 Junior High Band:

The Junior High Band is a performance-based curriculum. The course is designed to further the students' knowledge of music and increase their reading and playing ability. At the conclusion of the second year, the student will be able to perform music of grade level 2 or better, and perform many of the musical styles. Two performances are scheduled, one in the fall and one in the spring. Grades 7-8.

Prerequisite: Permission of instructor. (0.5 cr)

744 Senior High Band:

Senior High Band is a performance-based curriculum. Advanced playing techniques, styles, and history are covered in this course. At its conclusion, the student will be able to perform in a concert band, perform music at grade level 3 or above, and perform all types of musical styles. Students will be involved in three public concerts. Grades 9-12.

Prerequisite: Permission of instructor. (0.5 cr)

747 Music Theory:

Music Theory is design to develop skills in; reading music, listening to sounds and being able to identify and describe, discussing and analyzing music, so that beginning students will have a background to use in furthering his/her study of music. The student follows a progressive study of the writing and composing of music. Musical understandings are basic knowledge of how music works as a language and how to use this language to communicate with others. Students will also use ear training to identify scales, intervals, chord quality and mode.

748 General Music 7:

This course exposes the student to the fundamental concepts of music including rhythm, melody, timbre, dynamics, articulation, harmony, texture, form, and expression. It includes a study of the oral and written traditions, especially the development and uses of musical notation. Music appreciation is stressed and the following units will be examined: the development of rock from 1954 to the present; a basic overview of music history including the Baroque Period, the Classical Period, the Roman Period, and 20th Century music; a study of various musical styles including jazz and blues, country and western, folk, and Broadway musicals. Grade 7. (.20 cr)

752 Junior High Chorus:

During this class, basic choral literature will be taught. Students will learn music in 2-3 vocal parts (harmony) and continue to emphasize the basic elements of music. Various styles of music will be taught. Students will be involved in two public concerts. Grades 7-8. (0.5 cr)

756 Senior High Chorus:

An extensive overview of various types of vocal music in four to eight parts. Students will be involved in two public concerts and will be prepared for possible participation in County, District, Regional, All State, and All Eastern Chorus programs. Grades 9-12. (0.5 cr)

762 Voice:

Diction (Italian, French, German, English), development of good vocal tone, breathing, pitch, and part singing in various styles, but especially the

“classics” will be taught, in addition to solfeggio and music reading. Students will study literature at the county chorus level. 1st Semester. Grade 9.

Prerequisite: Permission of instructor and enrollment in Chorus.
(0.5 cr)

SCIENCE / ECOLOGY/ AG TECHNOLOGY

SCIENCE

402 General Science 7: (1cr.)

Life Science is a study of the living world. It begins with the characteristics of living things and then develops a 5- kingdom classification system. Organisms are grouped into one of five kingdoms: monera, protista, fungi, plant, or animal. Each unit is supplemented with hands on activities, labs, and group work.

Physical Science is designed as an elementary introduction into the physical (as opposed to the biological) sciences. Students will become aware of the physical world in which they live by being introduced to such topics as matter and energy, forces associated with changes in temperature, measurement, electricity, simple machines, atomic structure, the behavior of atoms, and the mathematical interpretation of the aforementioned phenomena through the use of the metric system.

Earth Science will provide an introduction to the composition of the Earth, the structure of the Earth, the changing Earth – surface and subsurface activities, the history of the Earth, and new directions in earth science. Laboratory activities will be used to supplement and help interpret the individual units.

Environmental Science: This course meets for one quarter of the year. Students are exposed to a variety of environmental issues. The topics include water and air pollution, soil conservation, and solid waste disposal.

403 General Science 8: (1cr.)

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Environmental Science: This course meets for one quarter of the year. Students are exposed to a variety of environmental issues. The topics include water and air pollution, soil conservation, and solid waste disposal.

408 Biology:

This course is a study of the basic processes and groupings of all living things. This study begins by grouping organisms into a five-kingdom system. The processes of metabolism, respiration, photosynthesis, cell division, reproduction, and absorption are compared and contrasted among the organisms in the different kingdoms. An introductory genetics unit leads to an intense study of human genetics and genetic engineering. Dissections of an earthworm, starfish, fish, and frog allow students to observe the anatomical and physiological differences between invertebrates and vertebrates. Lectures, labs, demonstrations, activities, microscope study, and projects enable students to understand life around them and to enjoy the world of science. Grade 10. (1.0 cr)

410 Ecology:

The study of the interaction of living things with their environment. An investigation of matter and its properties is related to the chemical make-up of the environmental factors which includes the land, air and water. The relationships between the abiotic and biotic factors in the environment are examined by performing labs, activities, water testing, soil testing, and microscopy. Types of pollution and their effects on the environment are

discussed. This course prepares students to make informed decisions concerning the welfare of not only their future, but also their roles to protect the future for generations to come. Grade 9. (1.0 cr)

409 Earth Science:

The units included in this course are as follows: exploring the universe, the composition of the Earth, the structure of the Earth, the changing Earth – surface and subsurface activities, the history of the Earth, and new directions in earth science. Laboratory activities will be used to supplement and help interpret the individual units. Grades 11-12. (1.0 cr)

412 Chemistry I (Honors):

This course will be a rigorous survey of topics in chemistry including atomic structure, the periodic table, chemical formulas and balancing equations, the mole, stoichiometry, and the gas laws. This will be a challenging class that all students who plan to attend a four-year college should consider taking. It will require a good basis in mathematics and will focus not only on the fundamentals of chemistry, but also on problem solving in general. Since laboratory exploration is an integral part of learning chemistry, there will be two laboratory periods per week. This is a weighted course. Grade 11.

Prerequisite: Algebra II and have obtained a B average (84%) or higher in Honors Ecology & Biology, or an A- (90%) or higher in College Prep Ecology & Biology.

415 Chemistry I:

This course will be a qualitative survey of topics in chemistry including atomic structure, the periodic table, writing chemical formulas and balancing equations, the gas laws, and acids and bases. It will begin with a complete review of the metric system and unit conversions, as well as other important mathematical basics, but will remain less mathematically rigorous than Chemistry (AC). This will be a challenging class that any student considering a two or four-year college should consider. Laboratory exploration will be an integral part of the class, but there will be no separate lab period. Grades 11-12. (1.0 cr)

417 Physics:

This course should be taken by any student who plans to enroll in a two or four-year college. It is a challenging course that will introduce the student to basic concepts in physics while improving his/her problem solving skills. To accomplish this, a survey of topics such as matter and energy, measurement, motion, work, force, heat, sound, light and electricity will be studied. In addition to the traditional classroom activities, there is an emphasis on laboratory investigations, problem solving and computer modeling. Two additional lab periods are required. Grade 11-12.

Pre-requisite: Chemistry I. (1.0 cr)

450 Organic Chemistry:

This course is for those students who are interested in Chemistry and have a basic understanding of chemical principles. Students interested in medicine, environmental science, biology, chemistry, biochemistry and health are encouraged to take this course. It is a good introductory class to Organic Chemistry for students who plan to pursue a career in either medicine or chemistry and provides an excellent foundation for advanced biology and chemistry courses. It is also valuable for students who want to complete an Intel project in Organic Chemistry. (1.0 cr)

608 Natural Resources:

This course will allow the student to learn about several of our natural resources which are emphasized by the Soil Conservation Service Envirothon Competition. Those areas include soils, water, forestry, aquatics, and current issues such as air quality. The class is recommended for any student who is interested in nature and has a concern for the environment. Students enrolled in the class can participate in the intra-curricular activities of the FFA. Students will be required to complete a research or work experience project. In addition, a student may receive one additional credit if 120 hours of Supervised Agriculture Experience is substantiated. Semester or year. Grades 11-12. (0.5 cr)

609 Animal Science:

The course is designed for the academic minded students who are interested in learning about the care of animals. Students should have biology before taking this course. The contents of the course will include: safety in handling animals, animal behavior, nutrition, genetics, reproduction, diseases and anatomy of large farm animals plus small animals such as dogs and cats. Leadership skills will be incorporated with the course material. Students will be able to complete a project related to care of animals. Students can compete with other FFA members from around the state in research projects. In addition, a student may receive one additional credit if 120 hours of Supervised Agriculture Experience (SAE) is substantiated. Semester or year. Grades 11-12. (0.5 cr)

AGRICULTURAL SCIENCE**602 Agriculture Science 8:**

This course is taught as an orientation to the world of agriculture and agriculture related businesses. Students enrolled in this class will spend 45 periods studying the different careers available in agriculture. Students are also familiarized with several additional areas, such as leadership skills, animal science, plant science, ag mechanics, and the intra-curricular organization, FFA. This course will have a culminating hands-on project using simple tools in the Agriculture shop. Students in eighth grade are eligible to enroll in the club.

Members joining FFA will receive additional training on how to establish on SAE project and record keeping. (0.25 cr)

605 Agriculture Science 9:

This is the first year of a four-year training program in experience projects, salesmanship and leadership skills. Students will receive training in soil science with emphasis placed on soil series, textures, profiles, land use capabilities and soil fertility in regard to Ph and nutrients. They will also be introduced to dairy and livestock breeds with emphasis on origin, selection, and reproduction. Students will receive training on the safe operation of power machines and power hand tools, with tool fitting and repair being incorporated into the course. Students will learn to plan and calculate cost of materials. Time will be provided for the students to plan and calculate cost of materials. Time will be provided for the students to plan to construct a project of their choice and they will need to establish an SAE project. In addition, a student may receive one additional credit if 120 hours of Supervised Agriculture Experience (SAE) is substantiated. Semester or year. Grade 9. (0.5 or 1.0 cr)

606 Agriculture Science 11-12:

This course includes the study of animal science as it relates to the production of dairy, swine, beef, sheep, fish, and horses. Shop skills taught will include electric and gas welding, small engine repair and the safe use of power hand tools and large equipment. Course will include a unit in plant science, which will cover principles of plant growth, land evaluation, and soil fertility. Shop skills taught the second year will emphasize electrical wiring and basic plumbing skills. Students will develop employable skills in management, salesmanship, and leadership. Skills are taught to improve the students' knowledge and ability to own or operate their own ag-business. Students will be required to complete required shop projects. Time will be provided for students to design and construct projects of their choice. The course will incorporate the use of English, math and science skills. Students will learn to use the computer for calculating and storing financial records and communicating. In order to receive credit for the course, the student must successfully complete a supervised agriculture project. In addition, students may receive one additional credit with 120 hours of Supervised Agriculture Experience (SAE) or if they have a substantial ag-business established. Students will compete in FFA sponsored activities to develop leadership skills. Semester or year. Grades 10-12. (0.5 or 1.0 cr)

607 Agriculture Science 10-12:

This course incorporates the study of mathematics into the field of agriculture and agriculture-related business. Students will develop the management and leadership skills needed to establish a business. These skills will help to improve the students' knowledge and skills necessary in ag mechanics.

Students can also work on improving their skills with welding equipment, small gasoline engines, and electricity. The class also incorporates the use of English and science skills and the students are encouraged to make use of the computer for assignments. College-bound students are encouraged to enroll for “hands-on- training” while taking the traditional academic education classes. In order to receive credit for this course, the student must successfully complete a home, farm, or off-farm project (project must be approved by the teacher). In addition, a student may receive one additional credit if 120 hours of Supervised Agriculture Experience (SAE) is substantiated. Semester or year. Grade 12. (0.5 or 1.0 cr)

610 Agriculture Science (Independent Study):

This course is designed for academic students who enrolled in college level courses but not able to schedule regular agricultural classes. Subject areas to be covered are plant and animal science. Leadership skills and salesmanship skills are stressed. The student may develop and maintain records in a supervised agriculture project. In addition, a student may receive one additional credit if 120 hours of Supervised Agriculture Experience (SAE) is substantiated. Students will be able to participate in FFA sponsored activities. Grades 9-12. (.25 to 1.00 cr)

611 SAE Course:

While concurrently enrolled in an agriculture class, credit will be issued for satisfactory work in the student’s Supervised Agriculture Experience. Grades 9-12.

<p style="text-align: center;">PHYSICAL EDUCATION/ HEALTH</p>
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500 Physical Education 7:

Physical education is required of all students unless they are excused by a physician. Classes meet two times per week and run through the entire year. Physical education is a phase of education which is concerned with developing the total physical and mental well-being of the individual so that he or she may participate to the fullest capacity in work and play of school life and of the years which lie beyond. The program will introduce the student to a number of physical and sport skills which will facilitate his or her participation in play and make possible a frequent workout, resulting in improved physical fitness. Within the class there is an opportunity to develop skills and attitudes that may be utilized in physical activity long after one leaves school. A balanced program of individual and team sports is presented. (.20 cr)

501 Health 7:

This course provides an introductory overview of general health topics including relationships, abstinence, violence/injury prevention, and disease prevention. Additionally, the course will build on healthy behaviors used in physical education by emphasizing physical activity and nutritional concepts as well as avoiding risk behaviors such as tobacco, alcohol, and drug use. Completion of this course will prepare students for topics to be discussed in Health I and Health II.

502 Physical Education 9-12:

Physical education is required of all students in grades 9-12. Classes meet twice per week and run through the entire year. The required physical education program will introduce the student to a number of physical and sport skills which will facilitate his or her participation in play and make possible a frequent workout, resulting in improved physical fitness. In the physical education class there is an opportunity to develop skills and attitudes that may be utilized in physical activity long after one leaves school. A balanced program of individual and team sports is presented. (0.25 or .5 cr)

503 Contract Physical Education:

For those students who are unable to schedule physical education, primarily because of Career and Technology courses, the option to contract for their PE credit will be available. The contract will involve a choice of activities that must be out and signed by the student and his/her parent each week and turned in to the guidance office each Monday or the first school day of the week. Failure to do so will result in credit being denied. The course will be graded pass/fail.

Prerequisite: Inability to schedule PE due to academic courses.

Permission of school counselor or principal. (0.5 cr)

506 Health I (9-10):

This is a comprehensive course with a guiding approach to wellness education. This course helps students to understand wellness concepts through direct, simple explanations and high-interest content. The content will cover nutrition, weight control, nervous system, skeletal and muscular system, endocrine, circulatory, and respiratory system, and digestion. A unit covering Personal and Traffic Safety to include, rules, regulations, and signs of the highway transportation system. The students will be given information on obtaining a learner's permit. Note: The Driver's Education practicum course will be arranged according to a sign-up with the teacher. Times will vary dependent on summer hours and after school schedules. This course meets every other day (0.5 cr)

508 Health II (11-12):

This is a comprehensive course emphasizing mental health, stress, mental disorders, tobacco, alcohol, and drugs. The approach helps students apply wellness knowledge in making intelligent decisions about their own health and encourages them to achieve and maintain a high level of physical, mental, and social wellness. Additionally, this course will continue with units covering communicable and non-communicable diseases and disorders. A unit covering human sexuality will include topics covering a range of family and social health issues. This course meets every other day. (0.5 cr)

510 Physical Education 8:

Physical education is required of all students unless they are excused by a physician. Classes meet two times per week and run through the entire year. Physical education is a phase of education which is concerned with developing the total physical and mental well-being of the individual so that he or she may participate to the fullest capacity in work and play of school life and of the years which lie beyond. The program will introduce the student to a number of physical and sport skills which will facilitate his or her participation in play and make possible a frequent workout, resulting in improved physical fitness. Within the class there is an opportunity to develop skills and attitudes that may be utilized in physical activity long after one leaves school. A balanced program of individual and team sports is presented. (.20 cr)

511 Health 8:

This course provides an introductory overview of general health topics including relationships, abstinence, violence/injury prevention, and disease prevention. Additionally, the course will build on healthy behaviors used in physical education by emphasizing physical activity and nutritional concepts as well as avoiding risk behaviors such as tobacco, alcohol, and drug use. Completion of this course will prepare students for topics to be discussed in Health I and Health II.

ELECTIVES

Elective credits may also be taken from any department course offerings above and beyond the required credits as well as from the following programs:

BUSINESS / COMPUTER TECHNOLOGY

809 Introduction to Accounting:

A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis on understanding the complete accounting cycle and preparing financial statements, bank reconciliations, and payroll. Students will define accounting terminology; analyze and record business transactions; complete the accounting cycle; prepare financial statements; and apply accounting concepts related to cash and payroll. Grades 10-12. (1.0 cr) (This course will also count as 1 math credit)

811 Accounting II:

The Accounting II course is a skill level course that is of value to all students who plan to major in any facet of business in college, not just for potential accounting majors. While building on basic math skills, students learn the importance of keeping accounting records; learn a broader business vocabulary; compute, classify, record, verify and maintain numerical data involved in transactions; prepare financial reports; study accounting careers, banking, tax and payroll transactions. This class is typically independent study. Students will be given an outline of assignments in Canvas with due dates for each chapter. Grades 10-12. (1.0 cr) Prerequisite: Accounting I

813 BUS 110 – Introduction to Business:

This course examines the social, legal, ethical, economic, and political interactions of business and society. This is a basic foundation for the student who will specialize in some aspect of business and will also provide the opportunity for non-business majors to learn about the relationship and impact of business to a society in which they are citizens, consumers, and producers. The class includes such topics as economic systems, government and business, ethics and law, social responsibility, globalization and international business concepts, principles and practices. Eligible for college credit through Penn Highlands Community College. (3.0 college credits)

814 CIT 100 – Microcomputer Applications:

This hands-on course introduces the student to the more popular microcomputer software packages available including Windows, word processing, spreadsheets, and presentations. This course provides students with a working knowledge of these software packages to accomplish the more common tasks. The Microsoft Office suite, including MS Word, MS Excel and MS PowerPoint is used. Eligible for college credit through Penn Highlands Community College. (3.0 college credits)

822 Computer Applications:

This course is designed to instruct students primarily in the applications they will use in high school and beyond. The focus of the course will be to create advanced digital publications in Microsoft Office Suite (Word, Publisher, PowerPoint, and Publisher). Additionally, the students will build on existing skills in Google Apps for Education as well gain an introduction to applications for video and sound editing, photo editing and manipulation, and other emerging applications. Grade 9 (1.0 cr)

815 Business Communication:

Basic theory and processes of communication skills necessary for the management of an organization's workforce. Students will explain the communication process; identify and remedy major communication barriers; describe how communication contributes to effective management of both an office atmosphere and employee/employer relationship. Grade 9-12 (1.0 cr)

816 Office Practices & Procedure:

Study of current office procedures, duties, and responsibilities applicable to an office environment. Students will develop time management techniques; demonstrate communication skills; and identify the basic skills of an office professional. Students will work one on one with teachers to practice communication skills, complete work orders and utilize office machinery. In addition, skills in writing formal business letters, making business related phone calls and sending business emails will be covered. Grade 10-12 (1.0 cr)

810 Business Leadership:

Designed for students seeking to develop effective leadership and management skills. Learn to influence, manage, and lead effectively. This course provides participants with opportunities to learn techniques and develop skills to make better decisions, resolve conflicts, improve employee performance, and lead change throughout the organization. Through self-assessment, challenging problem-solving studies, and team building exercises, students develop their own unique leadership style for success.

812 Economics and Personal Finance:

Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Additional topics will include paying for post-secondary education identity theft and recognizing financial scams. Students will design a final project outlining their plan for managing finances as an adult in the future. Grade 12 (1.0 cr.)

817 Marketing, Sports, & Entertainment Management:

This course gives students the opportunity to examine marketing from both the business and consumer perspective. We will examine the application of marketing functions, promotional strategies, along with the social, ethical and legal responsibilities of managing a business. There will be an emphasis on examining these marketing and management principles as they relate to the sports and entertainment marketing. Guest speakers, case studies, field trips, online activities, in addition to operating the school store and assisting with athletic events will broaden the classroom experience. Grades:10-12 (1.0 cr.)

818 Office Practicum:

The purpose of the Practicum experience is to immerse students in a school environment under structured office conditions. The Practicum student will observe and work with an experienced office manager or administrative assistant as a means of advancing his/her understanding of best office practices and procedures. These experiences are designed to reinforce concepts introduced in program course work. Practicum students will have the opportunity to apply theory to practice as they assume limited office responsibilities under controlled and supervised conditions. This Practicum course experience is intended to serve as a developmental bridge between field observations of administrative assistants and classroom study. Students will be required to keep a log of tasks performed as well as complete a culminating activity at the end of the course.

Grades:11-12 (1.0 cr.) Prerequisite: Office Practices & Procedures

SCHOOL-TO-WORK**880 School-to-Work Experience:**

Seniors who have a specific vocation/career goal may elect to spend one half of the school day at a work experience site. The student must find the site and submit a list of goals which he/she hopes to accomplish at the work site. The student must complete the Training Agreement and submit all the required signatures before the work experience can be scheduled. A satisfactory evaluation must be received each quarter from the site supervisor in order for the student to remain on the job. Grade 12.

Prerequisite: Overall grade point average 2.0 and permission of school counselor/principal. Pass/Fail (No Credit)

890 Elementary School Aide:

Students in Grades 11 and 12 may elect to work with an elementary school teacher. The purpose of the course is to prepare students to work with children either in a social service setting or in a school/preschool environment. Students must have a career goal which entails working with children in a variety of settings. Students who enroll in the course will be matched with a teacher-mentor in the elementary school.

Prerequisite: approval from administration. Pass/Fail. (No Credit)

891 High School Aide:

Students in Grades 11 and 12 are permitted to apply to work with a teacher/staff member in the high school or district office. However, students and teachers will be asked to complete a contract which lists the responsibilities of the student. No high school aide will have access to any student records, including tests, scores, or graded material. The contract will be submitted to the high school office and remain on file. A teacher/staff member may have only one aide per year.

Prerequisite: Permission of instructor. Pass/Fail (No Credit)

DUAL ENROLLMENT: Juniata College, Mt. Aloysius College, Penn Highlands Community College, Harrisburg Area Community College, & Clarion University

The Dual Enrollment program is offered to high school students that meet the GPA requirements and want to earn college credit while in high school. Dual enrollment courses are offered at Juniata Valley High School through Mt. Aloysius and Penn Highlands Community College and on campus at Juniata College.

(Information for Dual Enrollment is available in the Guidance Office.)

Note: All college courses are weighted for credit.

HUNTINGDON COUNTY CAREER & TECHNOLOGY CENTER

The Huntingdon County Career and Technology Center offers 14 programs organized into five career academics. A student will apply to a career academy and declare a major. Upon acceptance into a career academy and verification of your major, a student may have the opportunity to meet with HCCTC staff and also declare a minor. All students will receive instruction in leadership, career planning, entrepreneurship, and computer skills. All programs qualify for 3.0 credits.

ACADEMY OF AUTOMOTIVE AND MANUFACTURING TECHNOLOGY

902 Collision Repair and Refinishing:

Apply techniques necessary to restore a damaged vehicle to its original condition. The Auto Body Repair Technician must be able to repair and properly match paint on vehicle bodies, repair vehicle frames, and understand mechanical, electrical and electronic systems. The repair person works with metals, plastics and fiberglass in repairing the vehicle.

903 Automotive Mechanics:

Diagnose vehicle problems then perform the necessary repairs. This may involve repairing or replacing parts of the automobile. During these procedures the automotive mechanic may use hand tools, power tools, ignition machines, meters and hand held computer scanners. In addition, students learn four-wheel alignment, steering and suspension service, brake service, engine performance, electronic fuel injection and computer operational controls. Students will also receive instruction to help them acquire their Pennsylvania Safety Inspection and ASE Refrigerant Recovery and Recycling Certifications.

905 Precision Machining:

Covers two general trade areas; machining and welding. In machine trades students learn to shape metal to precise dimensions using blueprints and machine tools. All types of bench and machine tools are used to cut, drill, grind and form various types of metals. Operation and programming of a numerical control (NC) milling machine and a computerized numerical control (CNC) lathe, which can perform faster and more precisely than traditional machines, are included. The welding portion of the program teaches the basic techniques of arc, gas tig and mig welding, testing and inspection of welds, metallurgy, blueprinting reading, plasma cutting and fabrication techniques. Students learn the properties and characteristics of metals and proper methods of joining these metals.

ACADEMY OF COMPUTER TECHNOLOGY

906 Electrical Occupations:

Electrical Occupations is the study of basic theories of electricity and magnetism that explain the operation of various electrical systems. Students learn to apply these electrical theories and concepts in the practical shop activities. Students will learn to layout, assemble and install various circuits and electrical equipment used in residential, commercial, and industrial settings. The program also covers light installation, switches, transformers and motor controls.

908 Carpentry:

Introduces students to basic techniques used in residential construction. The areas covered within this program are rough framing, site work, interior and exterior finishing, concrete setup and energy conservation. Working from a set of blueprints, individuals learn to layout, cut and assemble projects and wood frame structures safely using the proper hand and power tools. In the masonry portion of the course students learn the basic skills of masonry construction, including bricklaying and block laying.

909 HVAC/Refrigeration:

Installation and maintenance of commercial and domestic refrigerators and freezers; automobile air conditioners and residential air conditioner; commercial ice makers; and air to air heat pumps. These are the main areas of instruction that an Air Conditioning/Refrigeration student will encounter.

910 Plumbing/Heating:

Learn the techniques to install, repair and maintain the plumbing and heating systems of a residential or commercial building. Blueprint reading, building codes and regulations, and the proper handling of fixtures and components of the systems are part of the program. The students also gain an understanding of heating systems, furnaces, boiler, water heaters, oil burners, pumps, circulators and control systems. Soldering, welding and related electrical skills are included in the coursework.

ACADEMY OF COMPUTER TECHNOLOGY**911 Computer Networking:**

Students are given the skills necessary to install, program, operate, maintain, service and diagnose operational problems in both computer hardware and software. Students will also learn the fundamentals of computer networking and network administration. The successful student in the Computer Servicing Program is given the opportunity to become certified in any of four CompTIA A+ certification domains, CompTIA Net+ certification, or Microsoft MCP certification. These certifications prepare the student for immediate employment in the computer maintenance field. Many students have also continued their education in either two or four-year college programs. The Computer Servicing Technology Program is a three-year program designed for both secondary and post-secondary students consisting of 1080 clock hours to complete the entire program.

HEALTH AND HUMAN SERVICES

913 Cosmetology:

The science of beautifying the skin, nails and hair with proper techniques and products. From a career view, cosmetology is an exciting, creative profession that is a multi-billion-dollar industry that grows bigger daily. The goal of this course is to provide the skills and 1250 hours of instruction necessary to pass the State Board of Cosmetology licensing examination as well as preparing the student with skills necessary for employment in a salon.

914 Culinary Arts:

Provides training and certifications in the food service industry through extensive hands-on experience utilizing the latest trends, and equipment meeting industry standards. Students receive instruction in safety and sanitation, hot and cold food preparation, pastry arts, nutrition, menu planning, displays banquet and dining room services and all aspects of food preparation for a successful career in culinary arts. Leadership and team skills are developed through FCCLA (Family Career Community Leader of America) youth organization. ServSafe certification nationally recognized is also available.

916 Public Health & Safety:

This is an instructional program that prepares individuals to apply technical knowledge and skills required to perform entry level duties as a police officer, fire fighter, paramedic and other safety services. This program stresses the techniques, methods and procedures peculiar to the areas of criminal justice and fire protection especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation. In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication.

918 Health Occupations:

A 3-year program of study and training in diverse health care fields. Students enrolled in this curriculum will be exposed to many types of health care occupations and skills including: nursing, medical assisting, respiratory therapy, radiology technician, dental assisting, and physical therapy. Students will have the opportunity to obtain CPR/AED certification. Students will participate in a clinical experience at local health care facilities. Students also participate in job shadowing in various departments at a local hospital. Emphasis is placed on professionalism, job seeking, and job seeking skills. Professional development workshops will provide the tools for students to be successful in employment and life. Students who are eligible will participate in

a Certified Nurse Assistant class to enable the student to obtain certification in this area. Students will also explore various clerical duties that are relevant to medical offices and health care facilities.