

Juniata County School District

Grades 9 - 12



Course Description Booklet
2023-2024

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LIST OF COURSES OFFERED

(Numbers in parentheses indicate the credit value of the course.)

ENGLISH

- (1) English 9
- (1) Advanced English 9*
- (1) English 10
- (1) Advanced English 10*
- (1) English 11
- (1) Advanced English 11*
- (1) English 12
- (1) Advanced English 12*
- (1) AP Language and Composition**
- (1) AP Literature and Composition**

SOCIAL STUDIES

- (1) Civics
- (1) World History
- (1) Problems of Democracy/Economics
- (1) United States History
- (1) AP U.S. History**

MATH

- (1) Algebra I
- (1) Algebraic Concepts
- (1) Algebra II
- (1) Geometry
- (1) Business Math
- (1) Algebra III/Trigonometry
- (1) AP Calculus AB**
- (1) Statistics (Virtual Only)

SCIENCE

- (1) Physical Science
- (1) General Science
- (1) Biology
- (1) Advanced Biology*
- (1.5) Chemistry (with lab)
- (1) Advanced Chemistry*
- (1) Physics
- (1) Anatomy & Physiology

P.E. / Health

- (4) Physical Education
- (4) Health
- (4) Strength & Conditioning
- (4) Competitive Sports

FOREIGN LANGUAGE

- (1) Spanish I
- (1) Spanish II
- (1) Spanish III
- (1) Spanish IV
- (1) Spanish V

- (1) Spanish VI

BUSINESS/COMPUTERS

- (1) Media Studies and Production
- (1) Spreadsheets
- (1) Introduction to Computer Science
- (1) Website Development
- (1) AP Computer Science Principles**
- (1) AP Computer Science A**

ARTS/HUMANITIES

- (1) Sociology/Psychology
- (1) Philosophy
- (1) Foundations for College Writing
- (.5) Band
- (.5) Chorus
- (1) Music Theory
- (1) Speech
- (1) Drawing
- (1) Painting
- (1) Printmaking/Sculpture
- (1) Ceramics
- (1) Industrial Arts
- (1) Intro to CADD
- (1) Child Development
- (1) Career and Consumer Science
- (1) Individual & Family Studies
- (1) Exploring Foods
- (1) Theater

VOCATIONAL AND AGRICULTURAL

- (3) Building/Construction Trades
- (3) Health Professions
- (1) Agricultural Education I
- (1) Large Animal Science
- (1) Animal Science
- (1) Plant and Soil Science
- (1) Wildlife and Fisheries Science
- (1) Forestry
- (1) Ag Mechanics I
- (1) Ag Mechanics II
- (1) Ag Mechanics III
- (1) FFA & Leadership
- (1) AG SAE I, II, III, IV
- (3) Mifflin County Academy of Science & Technology
- (6) Sun Area Technical Institute (senior year only)

*These courses are weighted 1.1 in GPA calculations

**These courses are weighted 1.25 in GPA calculations

COURSE DESCRIPTIONS

ENGLISH

****All Advanced English classes are considered to be upper-level courses and will, therefore, require more work and will be much more academically challenging than non-advanced English classes. Due to the level of difficulty of these advanced English classes, it is not recommended that students who are currently taking a general English class switch to advanced English for the following year. However, if a general English student does wish to switch to advanced English, he/she must have at least a 90% average in his/her current general English class. In addition, he/she must obtain a letter of recommendation from his/her current general English teacher.**

ENGLISH 9

Grade 9

Periods per cycle: 6

The speed and educational level of this course are designed for students who are preparing for the job force or for students who are preparing for a technical post-high school education. The curriculum for English 9 will consist of grammar, writing, and literature. Grammar elements related to improving writing skills may be reviewed. Writing done for this class will be expository, persuasive, creative, or descriptive. To gain practice in improving analyzing skills, students will examine various literature genres such as the short story, nonfiction, poetry, and drama.

ADVANCED ENGLISH 9

Grade 9

Prerequisite: Teacher recommendation

Periods per cycle: 6

This course will largely be literature-based, with particular emphasis on the various genres and their elements. Through the study of literature, students will also be introduced to the use of critical thinking skills and incorporating analysis to draw conclusions. Writing and working to improve writing skills will also be a large part of this course. The only grammar that will be taught will be those elements that would help to enhance writing skills. Since this will be such an academically demanding course, students will be placed using the policy developed by the placement committee. Students will be required to complete one research project.

ENGLISH 10

Grade 10

Periods per cycle: 6

This course will address the tenth grade curriculum of analyzing world literature by focusing on understanding grammatical elements and their relation to writing; improving writing skills in persuasive, creative, and informative compositions; and improving critical thinking skills by analyzing literature. The speed and educational level of this course are designed for students who are preparing for the job force or who are preparing for a technical post-high school education.

ADVANCED ENGLISH 10

Grade 10

Prerequisite: Teacher recommendation

Periods per cycle: 6

Since this is the second step in the advanced English sequence, this class will have a much higher level of difficulty than was found in Advanced English 9. The curriculum for this class will focus on analyzing world literature. It will include the study of different literary works and their elements so as to improve critical thinking/critical analyzing skills as well as the study of writing, including both writing styles and writing techniques, both of which will be essential for college as well as for the next level of this course sequence. **It is strongly recommended that a student should have achieved a 75% or better in his/her Advanced English 9 class before taking this class.**

ENGLISH 11

Grade 11

Periods per cycle: 6

This course is designed to meet, support, and strengthen the needs of a student who is preparing for the job force or a technical post-high school education. We cover literary elements through the reading of American literature, learn formats of writing informative, persuasive, and narrative styles, and learn and practice grammar, vocabulary, and writing skills. Transition skills such as business letter writing, resume writing, and interviewing will also be part of the curriculum. Students will learn the proper method of research writing, explore careers, and practice professional writing and communication skills while enhancing critical thinking skills.

ADVANCED ENGLISH 11

Grade 11

Prerequisite: Teacher recommendation

Periods per cycle: 6

This course is designed for students planning to attend college after graduation. The course involves a survey of American literature from the founding fathers to the present in the genres of poetry, nonfiction, short stories, novels, and drama. Through the study of literature, students will also be required to use critical thinking skills and incorporate analysis into discussions and writings. The other primary component is enhancing skills in writing informative, persuasive, and narrative pieces. A research project and required readings are included in order to fortify critical thinking skills. Vocabulary and review of grammar and mechanics are also included. **It is strongly recommended that a student should have achieved a 75% or better in his/her Advanced English 10 class before taking this class.**

ENGLISH 12

Grade 12

Periods per cycle: 6

This course is designed for the business or vocational student with an emphasis on preparing for the job force or a technical post-high school education. The curriculum will include grammar, writing, and vocabulary, especially as they relate to formal writing. Studying genres of British literature such as short stories, nonfiction, drama, the novel, and poetry will enable students to utilize comprehension skills as well as analyzing skills.

ADVANCED ENGLISH 12

Grade 12

Prerequisite: Teacher recommendation

Periods per cycle: 6

This course is designed for students' planning to further their education after graduation. The course includes a survey of British literature from *Beowulf* to the present. All genres and periods will receive coverage. Many means of writing will be explored including critical analysis and researched-based projects. Required reading and vocabulary are also generally included. **Students earning less than 75% in previous Advanced English classes may have difficulty excelling in this class.**

AP LANGUAGE AND COMPOSITION

Grade 11

Prerequisite: Teacher recommendation

Periods per cycle: 6

Course Description:

Advanced Placement English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. The course will focus on expository, analytical, and argumentative writing that forms the basis of academic and professional communication as well as the personal and reflective writing that fosters the development of writing facility in any context. Its purpose is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers.

Entrance Requirements:

AP Language and Composition requires students to write essays through several stages of drafts, with revision aided by teacher and peers in order to develop students' awareness of their own composing processes: the way they explore ideas, reconsider strategies, and revise their work. The content, skills, and processes of the course are designed to provide students with a solid foundation in preparation for the AP English Language and Composition Exam. It is recommended that a student interested in taking AP Language and Composition should have earned at least a 90% mark in their Advanced 10 or Advanced 11 English class, and he/she will need a recommendation from a former English teacher to take this course. Third marking period grades will be considered from your previous English class.

AP LITERATURE AND COMPOSITION

Grade 12

Prerequisite: Teacher recommendation

Periods per cycle: 6

Course Description:

Advanced Placement English Literature and Composition engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, styles, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Furthermore, students will have an opportunity to earn college credits if they choose to take the AP College Board national exam at the end of the year.

Entrance Requirements:

AP Literature and Composition requires discussion, critiques and feedback about established literature and about each student's work. Students must share their work and critique others' work. Students will be expected to read 5-10 novels and plays (several expected to be read over the summer before their senior years). It is recommended that a student interested in taking AP Literature and composition should have earned at least a 90% from their Advanced 11 English class or an 80% from their AP Language and Composition class, and he/she will need a recommendation from a former English teacher to take this course.

Social Studies**CIVICS**

Periods per cycle: 6

Grade 9

Civics is the study of local, state, and national government within the United States of America. This includes the structures of, functions of, and interrelationships between these three levels of government. Included within the course are overviews of the mechanics of our capitalist economy. The course discusses the history of American government and the formation of the three levels with emphasis on Pennsylvania history and Juniata County government. Concentration at all levels is given to the three branches of government and how they interact with each other.

WORLD HISTORY

Periods per cycle: 6

Grade 10

World history is an historical approach to the last 500 years in world history. Areas covered include the Protestant Reformation; Democratic revolutions in England, America, France, and Latin America; the Industrial Revolution; Imperialism and World War I; the Soviet Union/Communism; Depression/Dictatorships/World War II; the Cold War and the superpowers; Global Interdependence; Asia, Africa, Middle East, and Latin America; and Economic/Environment/the future.

PROBLEMS OF DEMOCRACY / ECONOMICS

Periods per cycle: 6

Grade 11

This course consists of one semester of Problems of Democracy and one semester of Economics. Problems of Democracy will begin with a review of the Constitution and workings of the Federal Government. Students will examine the policy-making process and the role of the citizen, the media, and other groups in that process. Emphasis is placed on specific policy areas and current events which relate to each. The Economics portion deals with a study of our capitalist mixed economy. Students will become familiar with basic microeconomic and macroeconomic concepts. This will include supply and demand analysis, economic institutions, economic policies, and global economics and international trade. Attention will also be given to personal finance and investment which will include a personal budget project.

UNITED STATES HISTORY

Periods per cycle: 6

Grade 12

United States history from 1929 to the present is a broad study of the domestic and international history of the United States covering economic, social, cultural, and political issues our nation faced throughout the twentieth century. This course will examine chronologically, by decades, the interaction of these issues that shaped out past and continue to affect America today. The class will focus on vocabulary and the men and women in the twentieth century. We will link the past to the present as required by the Pennsylvania Standards for United States history.

AP US HISTORY

Periods per cycle: 6

Grade 11 & 12

This AP US History is a challenging class that is designed to be the equivalent of a freshman college course in a high school setting. It is a year-long survey of American history from the age of exploration to the present. The course offers an issue-oriented approach in the study of the people of the US and their history. Major themes and traditions that make America exceptional will be explained in great detail. The course is designed to acquaint students with core characteristics and values found throughout our history. An analysis of those events and significant individuals will be done on a continuous basis.

Students will be required to apply the effort necessary to act as an historian and develop the ability to analyze historical evidence to determine its validity and relevance, identify point of view and the nature of bias, and recognize the necessity of objectivity and

substantiation. Students will be expected to read assigned passages from the required reading list prior to class meetings as well as outside materials as is necessary. Students should be prepared to read on a regular basis (approx. 6-10 hours per week). The volume of material involved in this course is extensive and students will need to commit designating time for reading in order to be successful in the course.

Class discussions will be based on the assigned reading and students will be expected to participate in those discussions. Studies have consistently shown that students who participate in class discussions and activities are more likely to grasp the learning objectives. The AP exam will be offered in May for students to take. Based on the score of student's exam, college credit will be given for US History.

ENTRANCE REQUIREMENTS

Students are required to have a 90% cumulative average for all social studies classes starting with grade 9 and a 85% cumulative average for all English classes starting with grade 9. Students who wish to take the course as juniors would also need a letter of recommendation from their 10th grade social studies and English teachers.

Math

ALGEBRA I

Grades 9-12

Prerequisite: Must pass Math 8 or Pre-Algebra

Periods per cycle: 6

Algebra is the study of numbers, the symbols that represent numbers, and the relations and operations between numbers. The real number system will be explored, including irrationals in radical form. Polynomial operations and linear functions will be studied in detail. Students earning less than 80% in previous math classes may have difficulty excelling in this course.

ALGEBRAIC CONCEPTS

Grades 9-12

Periods per cycle: 6

This course will remediate Algebra 1 concepts to help students have success on the winter keystone tests. It will then cover some Alg 2 topics that will tie in review of Alg 1 topics to help better prepare those students who will need to take the keystone test in the spring. Algebra Concepts will include content consisting of exponent properties, simplifying and factoring expressions, and understanding functions and their graphs. It will also include solving, graphing, and interpreting linear equations, inequalities, and systems of equations and inequalities. Entrance into the course will be determined by MAP or Keystone scores, along with teacher recommendations.

ALGEBRA II

Grades 9-12

Prerequisite: Algebra I

Periods per cycle: 6

Algebra II is the continued study of number symbols and number properties. Emphasis will be given to operations with real numbers in radical form and to rational expressions. Applications will be made in the areas of word problems, graphing linear and quadratic functions, and probability and statistics. Students who earned less than an 80% in Algebra I may experience difficulty in this course.

GEOMETRY

Grades 10-12

Prerequisite: Algebra I with teacher recommendation

Periods per cycle: 6

This geometry course deals with the properties and relations of plane figures (such as angles, triangles, polygons, & circles) which can be constructed with a straight edge protractor and compass. The course also deals with elementary trigonometry in right triangles. Proofs are also included in the instruction. Students who did not earn a final percentage of 80% in Algebra may experience difficulty in this course.

BUSINESS MATH

Grades 12 (Grade 11 if 3rd math)

Prerequisite: Completion of Algebraic Concepts or Algebra II

Periods per cycle: 6

This course begins with a review of general math and then provides instruction in the following areas: budgeting, borrowing, saving and investing money; home and transportation expenses; taxes and insurance; and skills involved in the operation of a business. Good basic math skills are important for this course.

ALGEBRA III & TRIGONOMETRY

Grades 11-12

Prerequisite: Algebra I, II, & Geometry; 80% in Algebra II or teacher recommendation

Periods per cycle: 6

This course deals with a rigid review of Algebra II, elementary concepts of Algebra III, polynomial function graphing techniques, trigonometric function graphs, trigonometry from right triangles through oblique triangles (laws of sines & cosines), elementary analytic geometry, and an introduction to logarithms. Students who did not earn a final percentage of 80% in Geometry *and* Algebra II may experience difficulty in this course.

AP CALCULUS AB

Grades 11-12

Prerequisite: Algebra I & II, Geometry, Trigonometry

Periods per cycle: 6

Calculus is the study of certain properties of numbers that help develop the concept of "limit." This concept is used to develop the two techniques of differentiation and integration and to apply these techniques to problem solving situations. The basic and many advanced mechanics of calculus are stressed with the emphasis on theory left for the student's college study. The mechanics of polynomial, rational, exponential, logarithmic, and trigonometric functions are practiced and applied to practical problems. These problems range from area and volume, ballistics to optimization, and rates of change. Topics covered include those recommended by the College Board for an advanced placement course. Students who did not earn a final percentage of 80% in trigonometry may experience difficulty in this course.

STATISTICS (VIRTUAL ONLY)

Grade 11-12

Prerequisite: AP Calculus or permission by instructor

Periods per cycle: Online Only

Statistics introduces students to the major concepts and tools used to collect, analyze and draw conclusions from data. The four basic conceptual themes studied are exploring data, sampling and experimentation, anticipating patterns and statistical inference.

Science**PHYSICAL SCIENCE**

Grade 9

Periods per cycle: 6

This course consists of basic chemistry and fundamental physics. Topics to be covered include describing and measuring matter, biochemistry (macromolecules), the states of matter, atomic structure, elements and the periodic table, chemical bonding, chemical reactions, and solutions. The physics portion of the course focuses on forces and motion, forces in fluids, energy, and work.

GENERAL SCIENCE

Grades 10-12

Periods per cycle: 6

This course may be required as remediation students who do not score proficient or advanced on the Biology Keystone Exam. This course is a non-math science course that explores environmental, chemical, and physical science. Units of study will include wetlands and watersheds, natural resources, and other environmental topics. At the conclusion of the course, all students will retake the Biology Keystone Exam.

BIOLOGY

Grades 10-12

Prerequisite: Physical Science (or taken concurrently)

Periods per cycle: 6

Biology is an introduction to the study of living things. Students will be exposed to processes used in biology through various lab activities. Academic emphasis is placed upon cell biology, biochemistry, genetics, taxonomy, evolution, zoology, and botany.

ADVANCED BIOLOGY -Harrisburg University Course (pending admittance)

Grades 11-12

Prerequisite: Biology and Chemistry

Periods per cycle: 6

This course is available to students who have completed Biology and Chemistry or are taking Chemistry concurrently. It is the rigorous study of cell biology, genetics, and plant and animal physiology. Students are required to pass Biology with an 80% to proceed to this course. **Students will have the opportunity to earn college credit through Harrisburg University through this course (pending admittance).**

CHEMISTRY (WITH LAB)

Grades 10-12

Prerequisite: Algebra

Periods per cycle: 9

Chemistry is a rigorous course designed for those students who have a strong math background and wish to further their education beyond the high school level. Topics covered will include a study of compounds, their reactions, and problem solving based on those reactions; phases of matter and their characteristics; atomic structure in terms of properties, bonding, and periodicity; nuclear chemistry, and chemical kinetics. These topics are covered through lecture and discussion, independent and cooperative study, and laboratory experiments. Students who have not earned a 75% or higher in both algebra and biology will have much difficulty in this course.

ADVANCED CHEMISTRY- Harrisburg University Course (pending admittance)

Grades 11-12

Prerequisite: 80% in Chemistry

Periods per cycle: 6

Advanced chemistry is a continuation of chemistry with topics covered to include colligative properties, acids and bases, oxidation-reduction, organic chemistry, and solution chemistry. **Students will have the opportunity to earn college credit through Harrisburg University through this course (pending admittance).**

PHYSICS

Grades 11-12

Prerequisite: Algebra I & II and Geometry

Periods per cycle: 6

Physics is a fundamental science and should be included in the college preparatory science sequence. This course is a math-based description of matter and energy. It includes mechanics which deals with motion, forces, energy and momentum. It also contains an introduction to electricity and mechanical waves. Your math and problem-solving skills will be developed further when you use and understand better the workings of the world you experience each day of your life. **Students will have the opportunity to earn college credit through Harrisburg University through this course (pending admittance).**

ANATOMY & PHYSIOLOGY

Grade 11-12

Prerequisite: 80% in Advanced Biology, Chemistry is recommended

Periods per cycle: 6

This course provides a comprehensive study of the anatomy and physiology. Topics include body organization; homeostasis; basic cytology; basic histology; and the integument, skeletal system, muscular system, cardiovascular system, respiratory system, digestive system, nervous systems, urinary system, reproductive system and special senses. There will be some dissection throughout the class (If this is a problem for you, this might not be the class for you). The focus will be on human anatomy but some comparative anatomy will be discussed. This class will require a proficient level of independent reading and use of digital media.

P.E. / Health**PHYSICAL EDUCATION**

Grades 9-12

Periods per cycle: 2

This physical education class will provide a wide variety of activities to meet the mental, physical, social, and emotional needs, as well as the interests and abilities of all students. The activities are designed to develop positive attitudes, a desire to participate and cooperate, physical fitness, and an appreciation and understanding of the basic skills and rules of team, individual, and lifetime sports. Ongoing assessment may include both written and participation based evaluations. The main focus of this course is on team sports, individual and dual sports, and recreational games.

HEALTH

Grade 9

Periods per cycle: 2

Health education is a science which aims at providing a better understanding of one's self and the development of proper habits and attitudes toward healthy living. This is made possible by the study of such units as mental/emotional health, stress, body systems, nutrition, physical fitness, tobacco, alcohol, drugs, human reproductive systems, sexually transmitted diseases, and AIDS. The students learn basic information about each area and then branch out into three main directions – how it can be harmful for them and others, prevention, and what help is available.

STRENGTH AND CONDITIONING (Elective)

Grades 10-12 (Priority given to seniors and juniors)

Periods per cycle: 2

This course is designed for the student serious about improving their physical strength properly and safely. In this elective, students will learn how to utilize strength training equipment appropriately and effectively while applying fundamentals of strength training to develop a personal exercise plan. The course will help students improve their cardio-respiratory endurance, muscular strength, muscular endurance, flexibility, and body composition. (Maximum class size: 14)

** This course counts as a Physical Education credit. This class cannot be taken more than once.*

COMPETITIVE SPORTS (Elective)

Grades 10-12 (Priority given to seniors and juniors)

Periods per cycle: 2

This course is designed for students that would like to have additional days of Physical Education with a group of students that desire to play at a competitive level. Students will be participating at a high level of fitness, skills tests and competitions will be a part of each unit offered. The course will help to improve the student's overall level of fitness, encourage teamwork, and develop skills associated with life-long fitness. (Maximum class size: 24)

** This course counts as a Physical Education credit. It can be taken more than once, if class sizes allow.*

Foreign Language (Electives)**SPANISH I**

Grades 9-12

Periods per cycle: 6

This academic course is designed for college-preparatory students. The student will develop basic skill levels in listening, reading, writing, and speaking Spanish. To succeed in this course, the student must memorize vocabulary and understand and apply correct grammatical structures. There will also be material presented about the cultures of the Spanish speaking world. It is strongly recommended that students possess strong academic English skills. Students are required to achieve a 70% in order to move to the next level of Spanish

SPANISH II

Grades 9-12

Prerequisite: Spanish I

Periods per cycle: 6

This academic course is designated for college-preparatory students. The student will further enrich his vocabulary, as well as develop more complex grammar skills. The student will also continue to study culture and to become more involved in writing, in addition to reading, listening, understanding and speaking Spanish. More time in memorization is required to master these skills. Students are required to achieve a 70% in order to move to the next level of Spanish.

SPANISH III

Grades 10-12

Prerequisite: Spanish II

Periods per cycle: 6

This course covers the more advanced grammar concepts in the language through various group activities and games. Grammar practice and language acquisition are also accompanied by role-play and interactive activities. Reading and writing are emphasized through literary works and essays. The history of Spain is noted in its culture, art, and its people. Students are allowed to express themselves in the target language by interaction with one another and the teacher. Videos are sometimes presented to allow for a better understanding of a particular concept. Students are required to achieve a 70% in order to move to the next level of Spanish.

SPANISH IV

Grade 11-12

Prerequisite: Spanish III

Periods per cycle: 6

The students will gain a high level of proficiency in reading, writing, listening and speaking. They will cover all grammar structures and continue to increase their vocabulary. The culture of Central and South America and the Caribbean will be emphasized. Presentations and projects are an important part of the course. Students are required to achieve a 70% in order to move to the next level of Spanish.

SPANISH V

Grades 11-12

Prerequisite: Spanish IV

Periods per cycle: 6

This advanced level course includes a wide variety of literature including short stories, essays, and poems from Spanish-speaking countries. Authentic language is presented in context with cultural perspectives. Students will enhance their writing skills with grammar review lessons and continue to increase their vocabulary. Audio and video selections accompany this course. The students will attain a higher level of proficiency in reading, writing, listening, and speaking. Students are required to achieve a 70% in order to move to the next level of Spanish.

SPANISH VI

Grades 11-12

Prerequisite: Spanish V

Periods per cycle: 6

This advanced level course includes a wide variety of literature including short stories, essays, and poems from Spanish-speaking countries. Authentic language is presented in context with cultural perspectives. Students will refine their writing skills with grammar review lessons and continue to enrich their vocabulary. Audio and video selections accompany this course. The students will attain the highest level of proficiency in reading, writing, listening, and speaking. Students are required to achieve a 70% in order to move to the next level of Spanish.

Computer Technology (Electives)**MEDIA STUDIES AND PRODUCTION**

Grades 9-12

Pds per cycle: 6

During this course students will incorporate natural interests in creating different types of media projects. Concrete subjects covered will consist of: modifying audio clips, computer animation, 3D plotting, video creation, and information processing. At the beginning of each unit, students will observe and analyze a different type of electronic media. As they develop a mastery of the theories (most importantly semiotics), they will practice by creating their own pieces of digital media. Productions will be creative in nature, but they will serve a purpose and meet a standard.

SPREADSHEETS

Grades 9-12

Pds per cycle: 6

In this course, students will learn the basic components of spreadsheets including database management and graphics. Various features and functions will be mastered through the use of lessons and projects in Microsoft Excel. Students will learn how spreadsheets are created and organized to locate useful information.

INTRODUCTION TO COMPUTER SCIENCE

Grades 9-12

PREREQUISITE: 70% in Algebra I

Pds per cycle: 6

Intro to Computer Science will give students a solid foundation for building complex computer programs. The focus of this class is to first understand the components of a computer, how they work together, and the basis of the internet. Next students will learn how being able to interface and program a computer helps us to build things like robots, video games, sensing equipment, monitors, etc. Throughout this course students will use the following popular programming languages to understand the fundamental tools to build efficient computer programs: python, processing, and JavaScript. (This course also utilizes **Carnegie Mellon University's Computer Science Academy.**)

WEBSITE DEVELOPMENT- Pennsylvania College of Technology Course (pending admittance)

Grades 10-12

Pds per cycle: 6

Introductory coverage of the internet and online web technologies. Skills learned include how to plan, create, and maintain static web pages through the use of HTML, CSS (Cascading Style Sheets), and creative design/implementation. This course is part of the Penn College NOW program, a nationally accredited dual enrollment program that offers Pennsylvania students the opportunity to earn **free Pennsylvania College of Technology credits** (pending admittance).

AP COMPUTER SCIENCE PRINCIPLES

Grade 11-12

Pds per cycle: Online Only

PREREQUISITE: Previous technology course & teacher recommendation

The AP Computer Science Principles course is designed to be equivalent to a first semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world.

AP COMPUTER SCIENCE A

Grade 11-12

Pds per cycle: Online Only

PREREQUISITE: Previous technology course & teacher recommendation

The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems.

Arts and Humanities (Electives)**SOCIOLOGY/PSYCHOLOGY**

Grade 12 ONLY

Periods per cycle: 6

Sociology is a study of human relationships. Topics include socialization, deviance, social structure, marriage, family, divorce, social stratification, education, religion, research methods, groups, and culture. Psychology is a study of the human mind and its manifestations. The field of psychology and the methods used by psychologists will be examined. Other topics include the brain, body, and awareness, cognitive processes, human development, personality, and psychological disorders. This course is for college-preparatory students only.

PHILOSOPHY

Grades 11-12 (Priority given to seniors)

Periods per cycle: 6

Prerequisite: 80% average in English and Social Studies classes since the beginning of high school career

A challenging elective course that examines the foundations of logic, ethics, reason, and epistemology in the classical tradition. Primary sources from the classical and ancient world constitute the main emphasis of reading and discussion along with significant works by modern authors. A high degree of competence and confidence in reading and writing is encouraged.

FOUNDATIONS FOR COLLEGE WRITING

Grades 10-12

Periods per cycle: 6

University writing professor James Slevin explains that “making stuff mean something is at the heart of the writing that gets admired at the university [level].” However, to find and then make *meaning* is easier said than done. It requires a complex interplay of skills. Students must read critically, pose questions, investigate those questions, engage in thoughtful dialogue with peers and texts alike, evaluate sources of information, listen carefully to the assertions of others, and reflect. This course will encourage the exchange of ideas. Students will collaborate with one another as they progress through the writing process. This course will move from teacher-centered instruction (such as modeling of skills and think-alouds) at the start of the semester to student-driven learning: Socratic seminars, small group discussions, writer’s workshops, journaling, peer review, and reciprocal teaching. Additionally, the course will address communication skills essential for college success, such as emailing professors, applying for scholarships, and participating in conferences. Resources for SAT preparation will be available as well.

This is meant to be a class to inspire critical and *creative* thought and writing. Evaluations will be based on student journals and a writing portfolio; there will be NO tests and quizzes. Homework will be minimal.

BAND

Grades 9-12

Periods per cycle: 3

This is a group of experienced instrumentalists who have been trained through preceding organizations, however, all interested musicians are encouraged to participate regardless of experience. The concert band presents concerts at Christmas and in the spring featuring musical selections displaying a well-rounded variety of musical styles. The marching band performs in football game half-time/pre-game field shows, the annual Juniata County Marching Band Festival, and many parades. The marching band's schedule includes performances during the fall, spring, and summer months. From the total year-round program have come the representatives to district, regional, and state festivals.

CHORUS

Grades 9-12

Periods per cycle: 3

This is a group of experienced singers who have been trained throughout preceding choruses. They perform a variety of choral music and styles which include four, five, and six-part singing. Vocal techniques are taught at each rehearsal in order to improve one's singing ability and enjoyment of the art. This large ensemble performs at Christmas-In-The-Park, in the Christmas Cantata, Spring Concert, and at Baccalaureate. From this organization have come the representatives to the District, Regional, All-State, and All-Eastern Festival choruses.

MUSIC THEORY

Grades 9-12

Periods per cycle: 6

Music Theory is the science behind the art of music. The purpose of this course is to give students an in-depth knowledge and understanding of how to read/notate music, develop aural skills, and use those tools and methodologies to compose, analyze, articulate and evaluate musical elements and philosophies. Students will attain music history instruction and how the history of music has developed over time. Students will learn basic harmony and form, melodic and rhythmic dictation, and sight singing. Students will also spend time learning how to create and compose original music using the fundamentals learned in class. There will be some singing or instrument playing depending on a speciality you choose. No prior music theory needed.

SPEECH

Grade 12

Periods per cycle: 6

This course is designed to introduce students to the art of public speaking. Students will focus not only on public speaking but also on writing, organizing, and preparing different types of speeches for their peers. There is an emphasis upon speech, thinking, and listening skills and any student, whether planning to attend college or not, can benefit from the organizational skills emphasized in this course. Students are also responsible for the news program in the morning.

DRAWING

Grades 9-12

Periods per cycle: 6

Basic techniques and media of drawing will be explored. Students study line, tone, form, and composition. Development in the four content areas of art history, art criticism, aesthetics, and art production will be stressed. This course can be taken up to four times.

PAINTING

Grades 9-12

Periods per cycle: 6

This course provides an introduction to the various media and subject possibilities of painting. Student artists build strong foundations in art history, art criticism, aesthetics, and production. The emphasis is on composition and the handling of paint and color. This course can be taken up to four times.

PRINTMAKING/SCULPTURE

Grades 9-12

Periods per cycle: 6

This course offers half-year studies of both art forms under one selection:

Printmaking: An introduction to the basics of printmaking and how printed images are created. The course examines the use of tools and techniques used in printmaking.

Sculpture: Students are introduced to ideas and materials that stimulate a response to three-dimensional forms. Modeling, carving, and constructing methods will be explored.

CERAMICS

Grades 11-12 (Priority given to seniors and juniors)

Periods per cycle: 6

This course will provide a comprehensive study of clay construction in the sculptural methods of hand-building and basic wheel throwing techniques. Students will study three-dimensional design and develop useful and sculptural forms. Creativity and quality of craftsmanship will be emphasized. Various glaze and surface decoration techniques will be explored. Students will be exposed to historical, traditional, and modern ceramics in the use of clay as a fine art medium.

INDUSTRIAL ARTS

Grade 9-12

Periods per cycle: 6

This course provides an introduction to various areas of industrial arts materials including wood, metals, glass, and plastics, as well as construction techniques used in the implementation of these materials to produce a useful product. Proper power tool set-up, operation, and safety are emphasized throughout the course. Mass production is also introduced for the students to experience. As this is a very product-oriented course, strong emphasis is placed on each student producing an individual project. **Senior high industrial arts students will be responsible for purchasing their wood and other supplies outside of school.** This course can be taken up to four times.

INTRO TO CADD (COMPUTER AIDED DRAFTING & DESIGN)

Grades 9-12

Periods per cycle: 6

Focuses on exposing students to the design process, research and development, team projects, global and human impacts on technology, problem solving skills, and engineering technical documentation. This course provides students with opportunities to learn about the history, systems, and processes of invention and innovation using numerous group and individual hands-on-projects. The class is intended to help students understand the field of engineering and engineering technology and its career possibilities.

CHILD DEVELOPMENT

Grades 9-12

Periods per cycle: 6

This course focuses entirely on the physical, intellectual, emotional and social development of children from birth until age 5. Many theories and current issues affecting child development will be explored at each stage of development. This course is ideal for anyone interested in working with children in the fields of education, nursing, and social work or just loves children.

CAREER AND CONSUMER SCIENCE

Grades 11-12

Periods per cycle: 6

This course will address the knowledge, skills, and behaviors students need to be prepared for success in college, career and life. The focus is on topics necessary for 21st century life, college and career skills such as interest and skill surveys, career, college and post-secondary options, employability skills and financial literacy.

INDIVIDUAL & FAMILY STUDIES

Grades 9-12

Periods per cycle: 6

This course is a comprehensive program open to grades 9-12 that will explore a variety of skills and topics necessary for real life. Content areas include human development topics, the family and relationships, money management, independent living skills, nutrition, and food preparation.

EXPLORING FOODS

Grades 9-12

Periods per cycle: 6

This course focuses on various aspects of food from origin to preparation. Many foods will be explored from regional cuisine of the United States to cultural cuisine of foreign countries. This course is ideal for anyone who wants to learn to cook or enhance their existing skills.

THEATER

Grades 10-12

Periods per cycle: 6

Drama is an introduction to the theater. Students become acquainted with the history of the theater and various significant plays, monologues, etc. Areas of technical production such as makeup, lighting, costuming, and set design may also be studied. Class requirements include, but are not limited to, performance work and a final project demonstrating the skills and knowledge that have been acquired in the course. This class's primary focus is hands-on lessons, and participation will be key to students' success. There will be NO tests or quizzes; homework will *only* be required if assignments are not completed during class time. This course can be taken up to four times.

Vocational and Agricultural**BUILDING/CONSTRUCTION TRADES**

Grades 10-12

Periods per cycle: 18

The Juniata County School District Building Trades program teaches the fundamentals in carpentry, electric, masonry and plumbing. The first year teaches safety rules, proper use of hand tools and shop equipment. Techniques are taught to draw blueprints for floor plans. Residential floors, walls and roof framing are covered along with exterior coverings for them.

Second year students will expand on safety for using a few additional tools not covered in year one. This year students will also use blueprinting knowledge, adding electrical prints and cover residential wiring methods and codes used today. For masonry, students will be introduced to industry terms and methods plus students will get to lay various block projects. Another project students will experience is building layout with the use of leveling instruments.

In the third year students will take the CareerSafe 10 OSHA Construction Industry Training Certification course and expand hand and shop tool projects to more advanced projects. Carpentry experience will be added by making blueprints, estimating and finally building a storage shed plus layout rafters and stairway carriages. Advances in masonry and interior finishes are achieved by laying 12" block and brick by hanging and finishing drywall. In this final year we also cover plumbing methods, codes and learn to solder.

HEALTH PROFESSIONS I - Periods 1-4

Grades 10-12 (Best to begin in Grade 10 in order to complete the full program)

Periods per cycle: 24

This course provides basic knowledge and skills that are important to a wide variety of health care careers. Topics covered in this course include: Orientation and safety; communications (chain of command); infection control; safety and body mechanics; emergency care and disaster preparedness (basic first aid and fire safety); basic clinical skills including all vital signs, height and weight, sterile/non sterile dressings; medical terminology; anatomy (organs and functions); and medical math.

HEALTH PROFESSIONS II - Periods 5-8

Grades 11-12 (Best to begin in Grade 10 in order to complete the full program)

Periods per cycle: 24

Prerequisite: Health Professions I

This course builds upon the basic knowledge gained in health professions I. Topics covered in this course include: Orientation and safety (important in case of changes in school policy) including stress and conflict management; communication; safety and body mechanics as they apply to restraints, sensory deprived clients, and a safe client environment; moving lifting, and positioning; personal care skills; urinary and bowel elimination; nutrition and hydration; basic clinical skills including elastic stockings and bed making tasks; mental health including reality orientation, communicating with the easily agitated client, and techniques for clients exhibiting repetitive behaviors; medical math; and medical terminology.

HEALTH PROFESSIONS III - Periods 5-8

Grade 12

Prerequisite: Health Professions II

Periods per Cycle: 24

This course continues to build upon the knowledge gained in health professions II. Topics covered in this course include: Orientation and safety (important in case of changes in school policy); legal and ethical issues; emergency care and disaster preparedness

(obstructed airway, BLS, AED, and crisis plan procedures); human needs and human development; mental health and mental illness; rehabilitation and restorative care; death and dying; medical terminology; allied health skills; physiology and pathophysiology (how body systems operate and function together and diseases of the body systems); and medical math.

****NOCTI Examination: This examination is given to all senior health professions students who have completed a minimum of 50% of the three year program. This exam includes both written knowledge and skill competence. Certificates will be awarded to those who earn a competent or advanced level on this national exam.**

AGRICULTURAL EDUCATION I

Periods per cycle: 6

Grade 9 – 12

This is a course for students interested in exploring basic scientific aspects in agriculture. Classroom topics include exploring agricultural careers, animal science, animal nutrition, large animal management, small animal management, nutrient cycles, record keeping, plant science and international agriculture. A history of the National FFA organization is also part of this course. This is a preliminary course in agriculture and is intended for students who will be taking agriculture in 10th, 11th and 12th grade. There will NOT be a shop component to this course due to the scientific content. However, Greenhouse and Garden Labs are part of this class. Students taking this course will also be eligible to participate in FFA activities.

LARGE ANIMAL SCIENCE

Periods per cycle: 6

Grades 10 – 12

Prerequisite: Agricultural Education I or teacher recommendation

This course is designed for students who plan on post-secondary education in Animal Science or related field. To fulfill the science requirement for this course, students will study the fundamentals of biology, nutrition, animal digestion, genetics, and reproduction of most large animal species. Students will also learn about the milk and meat industries and management of all major large animal species. An introduction to veterinary science will also be part of this course. This course will fulfill a science credit. Students taking this course will also be eligible to participate in FFA activities. **Offered in school years that run even to odd (ie, 24-25, 26-27, etc).**

ANIMAL SCIENCE

Periods per cycle: 6

Grades 10 – 12

Prerequisite: Agricultural Education I or teacher recommendation

This course is designed for students who plan on post-secondary education in the animal science or related field. Topics to be covered in this course will be the identification of the organs and functions of the pulmonary, circulatory, and immune systems; discussion of environmental factors of disease, description of the epidemiology triangle; explanation of external contacts, internal fractures, and malpositions that may cause disease; descriptions and explanations of the diseases of the digestive, respiratory, tissue types, reproductive, musculoskeletal system. This course is offered to fulfill a general science requirement. Students taking this course will also be eligible to participate in FFA activities. **Offered in school years that run odd to even (ie, 23-24, 25-26, etc).**

PLANT AND SOIL SCIENCE

Periods per cycle: 6

Grades 10-12

Prerequisite: Agricultural Education I or teacher recommendation

This course is designed for students who plan on post-secondary education in the horticulture, agronomy, or other plant sciences field. Topics to be covered in this course will be plant reproduction, plant nutrition, managing agricultural soils, environmental factors that effect plant growth, plant identification, integrated pest management, field crop and specialty crop production, fruit and vegetable production, greenhouse management, and nursery management and production. Greenhouse, Nursery and Outside Garden Work are part of this class. This course is offered to fulfill a general science requirement. Students taking this course will also be eligible to participate in FFA activities. **Offered in school years that run odd to even (ie, 23-24, 25-26, etc).**

WILDLIFE AND FISHERIES SCIENCE

Periods per cycle: 6

Grades 10 – 12

Prerequisite: Agricultural Education I or Biology

This course is designed for students who plan on post-secondary education in wildlife and fisheries (or a related field) or who have a general interest in exploring an in-depth look at the management, identification, and ecology of wildlife and fish species. This course will fill a science requirement, and students will be involved in labs to identify various animals and evaluate habitat. Areas that will be covered are hoofed, gnawing, and predatory animals, predatory, game and water birds as well as fish, amphibian and reptiles. Preparing students for the Pennsylvania Envirothon will be the focus of this class - with that as the basic curriculum. Students will be required to identify tracks, pelts and calls of various species. Students taking this course will also be eligible to participate in FFA activities.

FORESTRY

Grades 10-12

Prerequisite: Agricultural Education I or Biology

Periods per cycle: 6

This is designed for students who have an interest in forestry or plan to attend a post-secondary field in forest management. Students will cover topics in forest management, dendrology, forestry tools and their uses, silviculture, forest insects and diseases and tree identification. Students will also examine geographical distribution, ecological requirements, and economic importance of forests in the United States. The course will also include information on the education and career opportunities for foresters. Students taking this course will also be eligible to participate in FFA activities. **Offered in school years that run even to odd (ie, 24-25, 26-27, etc).**

AG MECHANICS I

Grades 10 – 12

Prerequisite: Ag. Education I

Periods per week: 6

This is a full year course with time divided into four different skill areas in the Ag Mechanics laboratory: advanced woodworking, electrical wiring, introduction to welding (arc, MIG, and Oxy-Acetylene), and introduction to metal fabrication. Projects will be assigned that emphasize proficiency in these areas. Participation during class time to meet all required skills is mandatory for this class. Shop safety is always emphasized, and students are expected to act in a responsible manner at all times to prevent unnecessary injuries. Students taking this course will also be eligible to participate in FFA activities.

AG MECHANICS II

Grades 11-12

Prerequisite: Ag. Education I & Ag Mechanics I

Periods per cycle: 6

To enter this course, you would be required to have taken agricultural mechanics I or ONE year of agriculture mechanics. For Ag Mechanics II students, this is a full year course with time divided into five different skill areas in the Ag Mechanics laboratory: plumbing & watering systems, advanced welding (arc, MIG, and Oxy-Acetylene), sheet metal working, small gas engine repair, and truss/rafter design. Once students complete all of the skill areas, students may work on individual projects with instructor's permission. Shop safety is always emphasized, and students are expected to act in a responsible manner at all times to prevent unnecessary injuries. Students taking this course will also be eligible to participate in FFA activities.

AG MECHANICS III

Grade 12

Prerequisite: Ag. Education I & Ag Mechanics I, II

Periods per cycle: 6

To enter this course, you would be required to have taken agricultural mechanics I and II or TWO years of agriculture mechanics. In Ag Mechanics III/IV, students further explore selected skill areas in the Ag Mechanics laboratory. Once students show mastery in all areas of the previous agricultural mechanics courses in the areas of welding (arc, MIG, and Oxy-Acetylene), plumbing and watering systems, small gas engine repair, truss/rafter design, metal fabrication, and electrical systems students may work on individual projects with the instructor's permission. Participation in class time to meet all required skills is mandatory for this class. Shop safety is always emphasized, and students are expected to act in a responsible manner at all times to prevent unnecessary injuries. Students taking this course will also be eligible to participate in FFA activities.

FFA & LEADERSHIP

Grades 10 – 12

Prerequisite: Any previous agricultural class

Periods per cycle: 6

This course is designed for FFA members who want to further develop their leadership and employability skills. Students may explore the differences in personalities and leadership styles, the barriers of communication, characteristics present during effective interpersonal communication, factors that will affect the presentation of a speech, parliamentary procedure, goal setting, and career choice and preparation. Students may be involved in writing grants, scholarships, and awards through the National FFA Organization. However, public speaking is the main focus of this course as public speaking is the Leadership Development Curriculum of the FFA. Students will learn to effectively handle themselves and speak in public as well as many other activities. Students taking this course will also be eligible to participate in FFA activities.

AG SAE I, II, III, IV

Grade 9-12

Independent Study

COREQUISITE: MUST BE ENROLLED CONCURRENTLY IN AN AGRICULTURE CLASS AND AN FFA MEMBER. THIS COURSE IS ONLY FOR STUDENTS WHO ARE ENROLLED IN ANOTHER AGRICULTURE CLASS AND WHO ANTICIPATE ON CONTINUING IN FUTURE AGRICULTURAL CLASSES.

This course will focus on the process of recordkeeping through the students' Supervised Agricultural Experience project or SAE. Students will develop a plan of action with their parents and advisor for their SAE. An agreement will be signed and the student will begin the project(s). A quarterly evaluation will be given on record book progress. Visits will be made to the students' home to evaluate implementation of skills learned in the classroom regarding the chosen project area. As students progress into SAE III and IV, they will be encouraged to participate in local, regional and state SAE record book contests and award programs.

OTHER VOCATIONAL PROGRAMS OFFERED AT THE MIFFLIN COUNTY ACADEMY OF SCIENCE AND TECHNOLOGY - "THE ACADEMY"

Grades 10-12

Periods per cycle: 18-30

The following courses are offered at The Academy in Lewistown:

Auto Mechanics	Collision Repair
Cosmetology	Culinary Arts
Early Childhood Education	Electrical Installation
Mechatronics	Precision Machining

**Mifflin County Academy also offers a full-day cosmetology program for seniors.

Additional information is available at www.theacademy.net

SUN AREA TECHNICAL INSTITUTE (FULL-TIME PROGRAM)

Grade 12

Full-Time Program

SUN Tech is a full-day option for seniors. Students will be bussed each day from their homes to New Berlin, PA, to complete one of 17 programs offered there. (It is about 40 minutes from McAlisterville to New Berlin.) Seniors will still need to complete their English and PE credits, which can be done virtually through JCSD's virtual program. Students who complete SUN Tech programs are often placed into paid or unpaid internships and also receive complete training and certifications for their programs, allowing them to immediately begin working in their field upon graduation from high school.

Find more information on their website: sun-tech.org

ACT 158: PATHWAYS TO GRADUATION (REQUIRED)

In accordance with Pennsylvania's Act 158 of 2018, beginning with the graduating class of 2023, students must , in addition to the 22 credits outlined in Policy 217, also meet the statewide graduation requirements in one of five ways.

- **Pathway 1 - Keystone Proficiency Pathway:** Scoring proficient or advanced on each Keystone Exam - Algebra 1, Literature, and Biology.
- **Pathway 2 - Keystone Composite Pathway:** Earning a satisfactory composite score of **4452** on the Algebra 1, Literature, and Biology Keystone exams (while achieving at least a proficient score on at least one of three exams and no less than a basic on the remaining two). *A Non-Numeric Proficient (NNP) is not eligible for this pathway.
- **Pathway 3 – CTE Pathway:** For Career and Technical Education (CTE) Concentrators, (JCSD AG, Health Professions, Trades or Mifflin Academy students) They must successfully complete Biology, Algebra I, and English 10 classes associated with each Keystone Exam on which the student did not achieve proficiency and complete the CTE program or the attainment of an industry-based competency certification related to the CTE Concentrator's program of study. For further explanation of the CTE Pathway, please see PDE's Act 6 guidance.
- **Pathway 4 - Alternate Assessment Pathway:** Successful completion of JCSD Biology, Algebra I, and English 10 classes associated with each Keystone Exam on which the student did not achieve proficiency and **one** of the following:
 1. Attainment of an established score on an approved alternate assessment
 - a. SAT: score of 1010
 - b. PSAT: score of 970
 - c. ACT: score of 21
 - d. ASVAB: AFQT of 31
 2. Attainment of an established score of 3 on an Advanced Placement Program (AP) in an academic content area associated with each Keystone Exam on which the student did not achieve at least a proficient score.
 3. Successful completion of a concurrent (dual) enrollment course in an academic content area associated with each Keystone Exam in which the student did not achieve at least a proficient score.

4. Successful completion of a pre-apprenticeship program.
 5. Acceptance in an accredited 4-year nonprofit institution of higher education and evidence of the ability to enroll in college-level coursework.
- **Pathway 5 - Evidence Based Pathway:** Successful completion of JCSD Biology, Algebra I, and English 10 classes associated with each Keystone Exam on which the student did not achieve proficiency and demonstration of three pieces of evidence consistent with the student's goals and career plans. Students must achieve a **total of 3** pieces of evidence from the following list. Please note a maximum of 2 pieces of evidence is allowed from section 5.
 1. Attainment of established score on a SAT subject test, an Advanced Placement Program Exam:
 SAT Subject Test score of 630 or
 AP Program Exam: score of 3
 2. Acceptance in an accredited, other than 4-year nonprofit institution of higher education and evidence of the ability to enroll in college-level coursework.
 3. Attainment of an industry-recognized credential.
 4. Successful completion of a concurrent (dual) enrollment or postsecondary course
 5. **(Maximum of 2 accepted from this section):**
 - Satisfactory completion of a service-learning project;
 - attainment of a score of proficient or advanced on a Keystone Exam;
 - a letter guaranteeing full-time employment;
 - a certificate of successful completion of an internship or cooperative education program;
 - or satisfactory compliance with the NCAA's core courses for college-bound student athletes with a minimum grade point average (GPA) of 2.0.

*STUDENTS WITH DISABILITIES: Any student with a disability who satisfactorily completes a special education program developed by an individualized education program (IEP) team who does not otherwise meet the new statewide requirements (Act 158 or Act 6) shall be granted and issued a regular high school diploma.

EJHS GRADUATION REQUIREMENTS BY CREDIT

<u>Subjects</u>	<u>Credits</u>
English	4.0
Social Studies*	4.0
Mathematics	3.0
Science	3.0
Physical Education	1.6
Technology*	1.0
Health	0.4
<u>Electives</u>	<u>5.0</u>
TOTAL	22

**If a student attends The Academy or JHS programs (Health Professions, Building Trades) in 10th, 11th, and 12th grade credit totals will differ.*

RECOMMENDED COURSES OF STUDY

GENERAL STUDIES

Grade 9

English 9 or Advanced English 9
Civics
Algebra 1
Physical Science
Health/PE

Grade 11

English 11 or Advanced English 11
Problems of Democracy/Economics
Algebra II or Geometry
General Science
PE

Grade 10

English 10 or Advanced English 10
World History
Algebraic Concepts
Biology
Technology Elective (at some point from 9th-12th)
PE

Grade 12

English 12 or Advanced English 12
U.S. History
Business Math
PE

COLLEGE PREPARATORY

Grade 9

Advanced English 9
Civics
Algebra I or II
Physical Science
Biology
Spanish I
Health/PE

Grade 11

Advanced English 11, AP English 11
POD/Economics or AP U.S History
Algebra II, Geometry, or Trigonometry
Chemistry

Grade 10

Advanced English 10
World History
Algebra II or Geometry
Biology or Chemistry
Spanish I or II
PE (each year from 9th-12th)
Technology Elective (at some point from 9th-12th)

Grade 12

Advanced English 12, AP English 12
US History or AP US History
Trigonometry, AP Calculus or Statistics
Physics, Adv. Chem., Adv. Biology, Anatomy/Physio.

CONSTRUCTION TRADES/HEALTH PROFESSIONS (Held at JHS)**Grade 9**

English 9
 Civics
 Algebra 1
 Physical Science
 Health
 Technology Elective

Grade 10

English 10 or Advanced English 10
 Biology
 Algebraic 1 or Algebraic Concepts
 PE
 Construction Trades/Health Professions (Pds. 1-4)

Grade 11

English 11 or Advanced English 11
 POD/Econ
 Algebra II or Geometry
 PE
 Construction Trades/Health Professions (Pds.1-4)

Grade 12

English 12 or Advanced English 12
 US History
 Consumer Math or other math course
 PE
 Construction Trades/Health Professions (Pds.5-8)

VOCATIONAL-TECHNICAL (The Mifflin County Academy of Science and Technology)**Grade 9**

English 9 or Advanced English 9
 Civics
 PE
 Algebra I
 Physical Science
 Technology Elective

Grade 10

English 10 or Advanced English 10
 Algebra I or II
 Biology
 PE (Doubled– 4 days per cycle)
 The Academy (Pds. 1-3)

Grade 11

English 11 or Advanced English 11
 POD/Econ
 Business Math
 The Academy (Pds. 5-8)

Grade 12

English 12 or Advanced English 12
 US History
 General Science
 PE
 The Academy (Pds. 5-8)

VOCATIONAL-AGRICULTURAL (Held at EJHS)

Course sequence suggestions available in the Counseling Office or with the Agriculture teacher.

NOCTI Examination: This examination is given to all senior Vocational Education students who have completed a minimum of 50% of the three year program. This exam includes both written knowledge and skill competence. Certificates will be awarded to those who earn a competent or advanced level on this national exam.

East Juniata High School may offer other AP Courses through Connections Learning by Pearson. These courses will be done online. If a student is interested, there are prerequisites. Students need to meet with the school counselors and discuss possibilities prior to scheduling.

NCAA Eligibility

Any student-athlete who will potentially be participating in a Division I or Division II sport should visit the following NCAA Eligibility website to learn more about college athletic eligibility requirements and core high school courses that need to be taken to be eligible:

<https://web1.ncaa.org/eligibilitycenter/common/>

The Mifflin County Academy of Science and Technology Programs of Study

SOAR Programs: Students Occupationally and Academically Ready

SOAR programs of study are career and technical programs that prepare students for challenging careers as well as post-secondary education in technical fields of study. These programs of study include rigorous academic and technical content that is aligned with Pennsylvania's academic standards

Benefits include the following:

- Transferring credits from high school to college
- Saving money on college tuition
- Shortening time spent in college
- Entering the job market prepared to work in your chosen field
- Obtaining a seamless flow from high school to college

SOAR programs of study are offered at The Academy of Science and Technology.

Academy SOAR Programs of Study available to Juniata County students are as follows:

- Automotive Mechanics
- Automotive Collision Repair
- Culinary Arts
- Early Childhood Education
- Electrical Installation
- Mechatronics

Students who successfully complete a program of study at the Academy can earn articulated credits through participating colleges such as the following:

- Pennsylvania College of Technology
- Thaddeus Stevens College of Technology
- Harrisburg Area Community College
- Mercyhurst College
- Mount Aloysius College
- Harcum College

Additional post-secondary schools can be viewed at www.collegetransfer.net.

****Any questions about programs of study and/or college credits available through articulation agreements should be directed to the Academy at 717-248-3933**

Penn College NOW at Mifflin County Academy

The Penn College NOW program allows students to earn credits from the Pennsylvania College of Technology while in high school. **Penn College NOW courses are actually Penn College courses** taught in the high school or career and technical center by high school or career and technical center teachers. Most importantly, **these courses are offered at no tuition cost to students and their families.** Students who successfully complete Penn College NOW courses earn Pennsylvania College of Technology credits and graduate high school with those credits indicated on an official Penn College transcript. Every Penn College NOW credit earned in high school is like a \$558 scholarship to Penn College. In 2018-2019, high school students across Pennsylvania earned over \$3.8 million in tuition-free college credits through Penn College NOW.

Penn College NOW courses benefit students in the following ways:

- **Students save money**-The more Penn College NOW courses taken (at no tuition cost), the less money spent once the time comes to earn a degree after high school.
- **Students save time**-Students spend less time earning a degree at Penn College if they have already completed some of the coursework through Penn College NOW. Courses can also transfer to additional postsecondary institutions.
- **Students are pushed to excel in a variety of challenging courses**- Students can take and succeed at college coursework in their high school/CTC environment, where they feel comfortable and supported.
- Students are connected to "the college experience" -Through Penn College NOW, students have chances to visit our campus, see our facilities, and meet our college faculty.
- **Students build confidence in their abilities regardless of strengths**-Regardless of their post-graduation plans, students who have shown success in college courses will be more competitive in both the job market and college admissions process. Success in challenging coursework builds confidence as well as skills.
- **Students increase their odds of success in college**-Despite the type of degree or major students pursue, students who have been successful in college courses and who are familiar with a college campus before entering as a freshman are more likely to remain in college and more likely to complete their chosen degree.

Current Penn College NOW Courses offered at the The Academy and Available to Juniata County Students:

- Mechatronics-9 credits
- Automotive Mechanics-6 credits
- Electrical Installation-5 credits
- Agriculture-1 credit

In the event that an East Juniata High School student is wheelchair bound, the District will permit the student to attend Juniata High School at no cost to accommodate their accessibility.

NONDISCRIMINATION STATEMENT

Juniata County School District will not discriminate on the basis of race, color, national origin, sex, or handicap in its activities, programs, or employment practices as required by Title VI, Title IX, and Section 504. For information regarding civil rights or grievance procedures, contact the Title IX coordinator Travis Quici (tquici@jcsdk12.org) or the Juniata County School District 504 coordinator Mike

Maclay (Mmaclay@jcsdk12.org) or the district office, 146 Weatherby Way, Mifflintown, PA 17059, or by telephoning (717) 436-2111. For information regarding services, activities, and facilities that are accessible and usable by handicapped persons, contact the District Office.

AVISO DE NO DISCRIMINACIÓN

El Distrito Escolar del Condado de Juniata es una institución con igualdad de oportunidades y no discriminará en base a la raza, color, origen nacional, sexo, edad o discapacidad en la admisión a sus programas, servicios o actividades, para acceder a ellos, en el tratamiento de individuos, o en cualquier aspecto de sus operaciones, incluyendo sus prácticas de empleo, como lo requieren el Título VI, el Título IX y la Sección 504. Las consultas pueden dirigirse a: Coordinador del Título IX, Travis Quici (tquici@jcsdk12.org) o Coordinador de la Sección 504, Mike Maclay (mmaclay@jcsdk12.org).