Senior High School Course Descriptions

The courses listed have been approved by the Muncy School District Board of Education. School enrollment, results from state and standardized tests, and rules and regulations from the Pennsylvania Department of Education determine the specific offerings for each school year.

BUSINESS/COMPUTER TECHNOLOGY

Introduction to Business
(533)
Length: 1 Year
Grade: 9-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to introduce students to a wide variety of business aspects: economics, marketing, entrepreneurship, international business, human resources, consumer buying, banking, and personal finance. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Personal Finance
(542)
Length: 1 Semester
Grade: 10
Meeting/Cycle: Daily
Credit: .50

This course is designed to teach students about various aspects of financial decision making such as balancing a checkbook, budgeting, purchasing insurance, renting, leasing, or purchasing a car, making investments, and planning for retirement, etc. Students will also be narrowing their future career plans through continued research, creating a career plan, course selection, and developing job acquisition documents. *Please note – projects in this course are graduation requirements to meet the Pennsylvania Future Ready Index and Career Education Standards **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Accounting
(550)
Length: 1 Year
Grade: 10-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to enable students to develop the ability to analyze and record business transactions based on accepted principles of accounting. An emphasis will be placed on the systematic interpretations of recording business transactions. Google Sheets will be introduced to give students "real world" experiences in accounting. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Accounting II
(560)
Length: 1 Year
Grade: 10-12
Meeting/Cycle: Daily
Credit:

This course is designed to give students a basic accounting review followed by an introduction to and application of the accounting principles for partnerships and corporations. Students will continue using Google Sheets and business simulations, with the purpose of completing the accounting cycle. **Prerequisite**: The **successful completion of Accounting I**. **A warning to all prospective student athletes at the NCAA level: this course is not approved by the NCAA Clearinghouse.**

Marketing
(565)
Length: 1 Year
Grade: 9-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to introduce students to how businesses use marketing to buy, sell, advertise, promote, and distribute their goods and services to customers. Students will learn about marketing institutions, marketing research, selling techniques, sales promotions, and careers in marketing. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Career Exploration Program
(570)
Length: 1 Year
Grade: 12
Meeting/Cycle: By Appt.
Credit: 1
This course is uniquely planned for the development of career knowledge as an extension of training received in the high school classroom. The course is open to senior students who have a specific job interest for their futures. Students who are accepted into this course are released from school to go to an approved workplace. The job must provide a variety of experiences, which will develop workplace readiness skills, encourage attitudes and habits that meet acceptable employment standards, and enable students to investigate their career interests more fully. The employer must agree to evaluate the student on a nine-week basis and allow a school official to observe as needed during the year. Transportation to the worksite is the responsibility of the student. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Law
(574)
Length: 1 Year
Grade: 9-12
Meeting/Cycle: Daily
Credit: 1

This course is designed for students to learn about the legal environment in which they live in the American society: about the laws that govern human conduct in a civilized society, about avoiding legal difficulties, and about cooperating more effectively with a lawyer when that proves necessary. Specifically, students will learn about crimes, torts, contracts, personal and real property, landlord and tenant relationships, marriage and divorce, trusts and will, employment law, intellectual property, and international law. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Entrepreneurship
(575)
Length: 1 Year
Grade: 9-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to familiarize students with all elements required to write a functional business plan. A store management software simulation will be completed to familiarize the students with everyday operations in business. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

ENGLISH

English 9
(130)
Length: 1 Year
Grade: 9
Meeting/Cycle: Daily
Credit: 1

This course is designed to cover all basic areas of English. Students will study short stories, nonfiction, poetry, drama, and novels. The study of important authors and relevant literary terms will be incorporated in the units of study. Writing assignments will include compositions based on literature as well as longer writings, including a research paper. Students will strengthen their grammar skills with a focus on the parts of speech, centering on verbs as well as becoming more proficient with many aspects of grammar in their writing. Vocabulary will be taken from literature in addition to the vocabulary workshop series with an emphasis on the meaning of words and their correct usage, as well as context clues.

Accelerated English 9
(131)
Length: 1 Year
Grade: 9
Meeting/Cycle: Daily
Credit: 1
Weight: 1.08

This course is designed for students who plan to continue their education beyond high school. Exceeding beyond grade level expectations, text choices will be both complex and advanced. Reading outside of class will be required and expected; both nonfiction and fiction texts will be explored, including literature from canon and contemporary authors. College preparatory writing will be the focus in each unit of study by developing each student's individual writing style to enhance voice and cohesion. A fully developed research paper will be expected. Advanced literary techniques will be introduced to enhance the study of more complex texts. Students will strengthen their grammar skills with a focus on the application of grammar techniques to strengthen their writing style. Vocabulary will be taken from literature in addition to the vocabulary workshop series with an emphasis on incorporating words seamlessly into their writing. Any student who does not score proficient on the 8th grade ELA PSSA will be removed from this class. **Prerequisites: 92% or higher in English 8, Advanced or Proficient on 8th grade ELA PSSA, and teacher recommendation.**

Speech Using Computer Applications
(133)
Length: 1 Quarter
Grade: 9
Meeting/Cycle: Daily
Credit: .25

This course is designed to teach students about public speaking and aid in developing skills necessary to become an effective communicator. This course exposes students to the public speaking process. Students will learn to develop self- confidence, listen carefully, organize ideas, prepare and practice presentations, and be aware of nonverbal messages. Students will actively participate in a variety of public speaking experiences: informative, persuasive, extemporaneous and impromptu speaking, drama and oral interpretation, informal and formal debate, and various communication projects. Technology applications will be explored that can enhance and strengthen students' presentations. Students will use their Bridges Portfolio to complete a career interest inventory and research careers they would like to pursue after high school. Students will create a PowerPoint on a career of their choice and present it to the class.

English 10
(140)
Length: 1 Year
Grade:10
Meeting/Cycle: Daily
Credit: 1

This course is designed to be a thematic survey of a variety of literature and literary genres. Students will explore a variety of literature from several different cultures and time periods. In addition, students will develop essential reading, speaking and writing skills from vocabulary enrichment, independent reading development, communication skills improvement, note taking, and critical thinking, all of which will be incorporated throughout the course. Students can expect preparation for the Pennsylvania Literature Keystone Exam to influence every element of this class.

Accelerated English 10
(142)
Length: 1 Year
Grade:10
Meeting/Cycle: Daily
Credit: 1
Weight: 1.08

This course is intended for students preparing to continue their education after high school. Students will study texts from a wide range of cultures and historical periods, engaging with challenging and sophisticated readings that extend beyond typical grade-level expectations. Regular independent reading at home will be an essential component, as students work with both fiction and nonfiction selections. Each unit emphasizes college-ready writing, guiding students in developing a confident, cohesive personal writing style. To support the analysis of complex literature, the class will introduce advanced literary techniques and concepts. Preparation for the Pennsylvania Literature Keystone Exam will be woven into all aspects of the course, influencing instruction, assignments, and skill development. **Prerequisites: 90% or higher in Accelerated English 9 or 92% or higher in English 9, and teacher recommendation.**

English 11
(150)
Length: 1 Year
Grade:11
Meeting/Cycle: Daily
Credit: 1

This course is designed to assist and challenge students to reach the proficient or advanced status required by the Common Core Standards for reading, writing, speaking and listening, as well as prepare students for post-secondary endeavors. A variety of literary genres will be addressed in a thematic structure—with a primary focus on American literature. Students will develop vocabulary, reading, writing, grammatical, and discussion skills throughout the course. This course is designed to challenge students to expand their knowledge base for reading, writing, speaking and listening, as well as prepare students for post-secondary endeavors. A variety of literary genres will be addressed in a thematic structure—with a primary focus on American literature. Nonfiction, fiction, poetry, primary and secondary documents will be analyzed and synthesized through writing and discussion. Strategies for preparing for standardized testing such as the SAT will be discussed and practiced in class. Students will develop vocabulary, reading, writing, grammatical, and oratory skills throughout the course.

English 12
(160)
Length: 1 Year
Grade: 12
Meeting/Cycle: Daily
Credit: 1

English 12 covers British literature from Beowulf to the present and incorporates both the historical background of each literary period and the development of the English language. Writing assignments relate to literature and developing various types of composition. A planned study of vocabulary emphasizes improving word knowledge and usage and includes literary terms. Students complete several short research projects as well as complete MLA and APA research papers.

Creative Writing
(163)
Length: 1 Semester
Grade: 10-12
Meeting/Cycle: Daily
Credit: .50

This course is designed to advance student understanding of the creative writing process. By exploring several genres including nonfictional essays, short fiction, poetry, and drama, students will be able to express themselves in written forms which reflect development of plot, tone, theme, and characterization. Specific attention will be paid to creative, clear expression and the development of style through use of figurative language and literary devices. Special consideration will be placed on sharing and evaluating writing. On a regular basis, students will explore ideas through journal writing and the analysis of their own and others' writings. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

English Literature and Composition - Advanced Placement
(165)
Length: 1 Year
Grade: 12
Credit: 1
Weight: 1.2

This course is designed for the student of superior ability in the English language. The course is designed to provide such a student with a rigorous course in English literature and writing. Intense analytical and critical study of many works of different genres and literary periods is expected. Students may also prepare for an Advanced Placement examination, which may result in earning college credit. This course requires the students to do extensive amounts of reading, writing, and discussing. Analysis essay writing techniques will be addressed and practice activities provided to allow students to improve and expand their techniques as writers. This is a dual enrollment course with Lackawanna College. Students may opt to receive college credit. Eligibility and pricing information can be obtained in the high school guidance office. **Prerequisites: Final average of 92% in the previous English course and teacher recommendations will be considered. Students who score a "3" or higher on their AP exam will have their test- taking fee reimbursed.**

English Literature and Composition- Advanced Placement Lab
(166)
Length: 1 Semester
Grade: 12
Meeting/ Cycle: Daily
Credit: .50

This course is designed to complement the close reading involved in the experience of literature, the interpretation of literature, and the evaluation of literature done in class. Writing to understand literary work may involve writing response and reaction papers. Writing to explain a literary work involves analysis and interpretation, which may also include writing brief, focused analyses on aspects of language and structure. Writing to evaluate a literary work will also be addressed with emphasis on exploring the author's underlying social and cultural values through analysis, interpretation, and argument. Writing assignments will focus on the critical analysis of literature and may include expository, analytical, and argumentative essays.

Yearbook
(172)
Length: 1 Year
Grade: 9-12
Meeting/Cycle: Daily
Credit: 1

This course is designed around the ultimate production of Canusarago, Muncy High School's annual yearbook. Students will develop skills in the following areas: brainstorming, creating layout design, gathering information, using photography techniques, and writing copy. All students are required to sell advertisements to local businesses to raise money in support of the yearbook. Students must be able to work independently and in a cooperative setting. Prerequisite: Students should be proficient in computer applications and in writing. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

WORLD LANGUAGES

A four-year sequence of Spanish is offered. A student considering higher education is highly encouraged to take two years of foreign language during his/her high school experience. **World language courses other than Spanish, offered in an online format and taught by PDE certified instructors, are available with administrative approval. A 95% or better in the previous year's English course is required. These online courses are only available in level one and two and only and must be taught by a PDE certified teacher. The traditional two week add/drop period does not apply to these online foreign language courses. Once a student begins the course, they must complete the course.**

Spanish I
(624)
Length: 1 Year
Grade: 9
Meeting/Cycle: Daily
Credit: 1

This course is designed for students to experience and develop all four language skills – reading, writing, speaking and listening – while expanding their cultural knowledge of Spanish exploration. Students will use their knowledge to create sentences in Spanish and understand various listening passages. At the conclusion of the year, students will be able to use basic vocabulary and sentence forms to carry on a conversation in Spanish.

Spanish II
(634)
Length: 1 Year
Grade: 10
Meeting/Cycle: Daily
Credit: 1

This course is designed to build on the skills acquired in Spanish I. Students will be able to apply their knowledge of the Spanish language to everyday situations that require speaking, listening, reading, and writing. Upon completion of this course students will have the ability to carry on basic conversations in a Hispanic setting. **Prerequisite: Successful completion of Spanish I.**

Spanish III
(644)
Length: 1 Year
Grade: 11
Meeting/Cycle: Daily
Credit: 1

This course is designed to be an extension of Spanish II. Students will be able to participate in casual conversations, give simple instructions, as well as describe, report, and provide narration about present, past, and future activities. Students will increase their knowledge of the Hispanic world through the study of Spanish music, current events, and videos about the Spanish culture. **Prerequisite: Successful completion of Spanish II.**

Spanish IV
(654)
Length: 1 Year
Grade: 12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.08

Students will review all aspects of the Spanish language. Students will compose five-paragraph essays, participate in classroom discussions and oral presentations, as well as read excerpts from novels, short stories, and poems in Spanish. The course is taught entirely in Spanish. **Prerequisite: Completion of Spanish III.**

Spanish V
(658)
Length: 1 Year
Grade: 12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.08

This course is designed for students who intend to continue taking Spanish; however, do not want to take the Advanced Placement exam. This course requires the student to do an extensive amount of reading, writing, listening, and speaking in Spanish. **Prerequisite: Completion of Spanish IV.**

Advanced Placement Spanish
(659)
Length: 1 Year
Grade: 12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.2

This course is designed for students who intend to take the AP Spanish exam. This course requires the student to do an extensive amount of reading, writing, listening, and speaking in Spanish. Students will also complete assignments in the summer prior to the beginning of the course. **Prerequisite: Completion of Spanish IV with 92% or above OR teacher approval. Students who score a "3" or higher on their AP exam will have their test- taking fee reimbursed**.

MATHEMATICS

Algebra I
(431)
Length: 1 Year
Grade: 9
Meeting/Cycle: Daily
Credit: 1

This course involves the study of the basic structure of algebra from real numbers though algebraic functions to prepare students for the Keystone Algebra I Exam. This course involves exploration of such math concepts as operations with real numbers, variables, solutions and graphs of equations and inequalities, real-world problems, and operations with polynomial functions and rational expressions. This mathematics course connects algebra to the real world and to other subjects.

Accelerated Algebra I
(432)
Length: 1 Year
Grade: 9
Meeting/Cycle: Daily
Credit: 1
Weight: 1.08

This course involves the study of the basic structure of algebra from real numbers through algebraic functions to prepare students for the Keystone Algebra I Exam. This course involves exploration of such math concepts as operations with real numbers, variables, solutions and graphs of equations and inequalities, real-world problems, and operations with polynomial functions and rational expressions. This mathematics course connects algebra to the real world and to other subjects. **Prerequisite: 85% on Pre-Algebra Midterm and Pre-Algebra with a 92% or higher and teacher recommendation.**

General Math
(435)
Length: 1 year
Grade: 10-11
Meeting/Cycle: Daily
Credit: 1

This course is designed for students that need additional preparation before enrolling in Algebra II. Topics covered will include operations with real numbers, exponents, radicals, linear equations, linear inequalities, polynomial expressions, systems of linear equations, functions, coordinate geometry, probability, and data analysis. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Introduction to College Algebra
(436)
Length: 1 year
Grade: 10-12
Meeting/Cycle: Daily
Credit:1

Introduction to College Algebra is designed to strengthen math foundations in pre-algebra, elementary, and some intermediate algebra topics. Enrichment in these topics will prepare students for future placement exams for college. This course will focus on a conceptual understanding of the material so that the students can adapt and apply their knowledge to new but related scenarios. It will also focus on mathematical literacy with the goal of getting students to become critical thinkers. TI-84 Plus CE graphing calculators and Chrome Books will be integrated into the curriculum. Students will be issued the textbook: Beginning Algebra. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course. Pre-requisite: Algebra II.**

Algebra II
(442)
Length: 1 Year
Grade: 10-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to make mathematics accessible and applicable to students who have successfully completed Algebra I. Students will focus on expanding the following concepts and skills from Algebra I: solving linear functions, exponential functions, and systems of equations and inequalities. Content also covered includes polynomials, irrational numbers, and complex numbers. Algebra II develops real-world applications: building understanding of the concepts that provide a strong foundation for future courses and careers; connecting Algebra to the real world; involving students in exploring and discovering math concepts; and assessing students' progress in ways that support learning. **Prerequisite: Algebra I or General Math**

Accelerated Algebra II
(444)
Length: 1 Year
Grade: 10
Meeting/Cycle: Daily
Credit: 1
Weight: 1.08

This course is designed to make mathematics accessible and applicable to students who have successfully completed Algebra I and to address content necessary for success on the SAT as well as prepare students for Pre- Calculus without taking Algebra III. This course will be taught at an accelerated pace to allow students to be adequately prepared for both requirements. Students will expand their understanding of concepts learned in Algebra I, such as Systems of Equations and Quadratics. Students will focus on the following concepts and skills: polynomial functions, radical functions and rational exponents, exponential and logarithmic functions, and matrices. Additional content will include complex numbers, statistics, sequences, and series. This course develops real-world applications: building understanding of the concepts that provide a strong foundation for future courses and careers; connecting Algebra to the real world; involving students in exploring and discovering math concepts; and assessing students' progress in ways that support learning. **Prerequisites: Accelerated Algebra I with a 92% or higher and teacher recommendation OR Algebra I 97% or higher and teacher recommendation (will require completion of additional units covered in Accelerated Algebra I over the summer).**

Algebra III/Trigonometry
(445)
Length: 1 Year
Grade: 10-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to provide conceptual understanding and contemporary problem solving primarily using the language, symbols, and algorithms of algebra. Algebra III is designed for all students desiring a thorough pre-calculus algebra background with an introduction to trigonometry, but not at the rigorous, intensive level required for taking Advanced Placement Calculus in the future. Problem-solving and applications are emphasized throughout the course. Problems will be represented using the "Rule of Four" − algebraically, graphically, numerically, and verbally. Graphing calculator technology use is integrated throughout the course to facilitate these representations. Students will also be introduced to computer programming. The Algebra III course is offered to 11th graders as a prerequisite to Pre-Calculus and to 12th graders as an enrichment before taking a pre-calculus in college. **Prerequisites: Accelerated Algebra II or Algebra II with an 82% or higher and teacher recommendation.**

Pre-Calculus
(454)
Length: 1 Year
Grade: 10-12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.08

Pre-Calculus is a challenging elective course aimed at equipping students with the foundational knowledge needed for calculus, specifically preparing them for the AP Calculus AB exam in the next school year. It covers prerequisite topics for AP Calculus, as specified in the College Board's syllabus. It emphasizes the study of various types of functions, including polynomial, exponential, logarithmic, rational, and trigonometric functions. Additional topics include sequences, series, analytic geometry, limits, and continuity. Problems will be approached through verbal, analytical, graphical, and numerical methods. **Prerequisite: Accelerated Algebra II or Algebra III/Trig with a 92% or higher and teacher recommendation.**

Statistics
(460)
Length: 1 Year
Grade: 11- 12
Meeting/Cycle: Daily
Credit: 1

This course is designed to introduce students to topics in descriptive and inferential statistics. A major emphasis will be placed on interpreting the statistical results rather than on the calculations. Technology will play an important role in the course. Major topics include organization of data, descriptive measures, probability, the normal distribution, the Central Limit Theorem, sampling distributions, confidence intervals, hypothesis testing, regression, correlation, chi-square procedures, and analysis of variance (ANOVA). **Prerequisite: Accelerated Algebra II or Algebra III/Trigonometry.**

Statistics- Advanced Placement
(461)
Length: 1 Year
Grade: 10-12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.2

The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing to build conceptual understanding. The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. . This is a dual enrollment course with Lackawanna College. Students may opt to receive college credit. Eligibility and pricing information can be obtained in the high school guidance office. **Prerequisites: Enrolled in or have completed Pre-Calculus or have completed Statistics with a grade of 92% or higher. Teacher recommendations will also be considered. Students who score a "3" or higher on their AP exam will have their test-taking fee reimbursed.**

Calculus - Advanced Placement (AB)
(462)
Length: 1 Year
Grade: 10-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to enable students to study concepts of differential and integral calculus. (This course is an equivalent to more than a one-semester calculus course at most colleges and universities.) Topics from the syllabus of the College Entrance Examination Board's Calculus AB Examination will cover: (1) limits, continuity and rates of change; (2) derivatives; (3) applications of derivatives; (4) integrals (definite and indefinite); and (5) applications of integrals. All students enrolled in this course are expected to take the Advanced Placement Exam at their own expense. Students who score a 3, 4 or 5 on the AP Calculus AB exam will have their test- taking fee reimbursed by the district. After the AP Exam is completed, that year's free response questions will be examined in detail and the remainder of the semester will consist of a study of topics that will be covered in the AP Calculus BC course. This is a dual enrollment course with Lackawanna College. Students may opt to receive college credit. Eligibility and pricing information can be obtained in the high school guidance office. **Prerequisite: Pre-Calculus or Calculus I with a grade of 92% or higher in the most-recently taken of those courses. Teacher recommendations will also be considered. Students who score a "3" or higher on their AP exam will have their test- taking fee reimbursed.**

Introduction to Computer Science
(770)
Length: 1 Year
Grade 10-12
Meeting/Cycle: Daily
Credit: 1

Introduction to Computer Programming is designed to give students an introductory experience in the world of computer programming languages. Students will learn elements of computer and tablet technology, internet and networking systems and troubleshooting. Computer languages of Swift, HTML, Python and Java will be explored to form a solid foundation of computer programming logic and skills**. Prerequisites: Algebra I.**

AP Computer Science Principles - Independent Study
(475)
Length: 1 Year
Grade 11-12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.2

This course is designed to be an independent study of AP Computer Science Principles. This is an on-line, independent study course. Individuals taking this course will need to be self-motivated, as the content will be completed independently, without direct in-person instruction. AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems, including the internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. **Prerequisites: Introduction to Computer Science and Accelerated Algebra II or Algebra III/Trigonometry.**

PHYSICAL/HEALTH/& SAFETY EDUCATION

Adaptive Physical Education
(900)
Length: Varied
Grade: 7-12
Meeting/Cycle: Varied
Credit: .50

This course is designed to be an adaptive physical education program with the purpose of providing special services for those students who cannot participate in the regular physical education program. This course is divided into three specific areas: adaptive, remedial, and rehabilitative physical education. **Prerequisite: Physician's certification and/or faculty referral.**

PE/Health 9
(930) or (931)
Length: 1 Quarter
Grade: 9
Meeting/Cycle: Daily
Credit: .25

This course is designed to focus on locker room etiquette, teamwork, sportsmanship, and individual fitness levels. Students will develop skills in a variety of sport activities. Students are expected to exhibit the appropriate behavioral skills, demonstrate fine and gross motor skill development, as well as demonstrate knowledge and confidence needed to adopt and maintain an active lifestyle. The emphasis will be on active participation, promoting good sportsmanship, and working with other students in a variety of activities.

Driver's Education/ Health
(948)
Length: 1 Semester
Grade: 10
Meeting/Cycle: Daily
Credit: .50

Driver Education consists of classroom instruction and practice driving. The classroom instruction is mandatory and is scheduled during the sophomore year. Students will become familiar with the laws of the Motor Vehicle Code of the Commonwealth of Pennsylvania, take an in-depth look at the physical, mental, and emotional factors which determine efficiency in driving, and develop a realization that attitudes, habits, and emotional reactions affect driving efficiency. The practice-driving component is optional. This element of the course is scheduled by appointment with the instructor after students have received their learner's permit. Health topics will include non-infectious diseases, human development, as well as first aid and CPR **Prerequisite: Student must be scheduled in the approved driver education class of theory before participating in the behind the wheel program.**

PE/Health 11-12
(950) or (951)
Length: 1 Semester
Grade: 11-12
Meeting/Cycle: Daily
Credit: .50

Eleventh and Twelfth grade health and physical education focuses on lifetime fitness and skills to be fit for life. Health topics include first aid and CPR as well as death and dying. Physical education activities include lifetime activities and sports that will empower students to have control of their personal fitness levels for their adult lives.

SCIENCE

Biology
(340)
Length: 1 Year
Grade: 9
Meeting/Cycle: Daily
Credit: 1

Biology is the study of life. This course will provide the student with an intellectual understanding about the living world and the interrelationships between different organisms. Topics and laboratory activities will include biological principles, scientific methods, biochemistry, cells, reproduction, genetics, evolution, ecology, and taxonomy. All topics are aligned with the Biology Keystone STEELS standards. Students will use a variety of resources including laboratory investigations, computer applications, and research projects to enhance their understanding of biology. This course prepares students for the Biology Keystone Exam at the end of the course.

Accelerated Biology
(342)
Length: 1 Year
Grade: 9
Meeting/Cycle: Daily
Credit: 1
Weight: 1.08

Biology is the study of life. The course will provide the student with an intellectual understanding about the living world and the interrelationships between different organisms. Topics will include structure and function, matter and energy in organisms and ecosystems, interdependent relationships in ecosystems, inheritance and variation of traits, and natural selection and evolution. Topics and laboratory activities will include biological principles, scientific methods, biochemistry, cells, reproduction, genetics, evolution, ecology, and taxonomy. This course prepares students for the Biology Keystone Exam at the end of the course. Students will use a variety of resources including laboratory investigations, computer applications, and research projects to enhance their understanding of biology. As this is an accelerated class, students should expect supplemental assignments, and lab reports challenging students beyond the basic Biology requirements preparing them for future accelerated and AP courses in the sciences. **Prerequisite: Completion of 8th Grade Science with an assessment average of 92% or better.**

Chemistry
(350)
Length: 1 Year
Grade: 10-12
Meeting/Cycle: Daily
Credit: 1

This course will provide exposure to basic chemistry concepts to help students in future endeavors, including additional coursework and/or employment opportunities. Topics include the nature of matter, atoms, periodicity, bonding, molecular structure and properties, states of matter, solutions, acids and bases, and stoichiometry. Students will develop skills to enhance their understanding of the chemistry behind issues and problems that students may encounter in their everyday lives. This course will have a laboratory component designed to explore simple chemistry techniques. Students will propose solutions to problems and do risk-benefit analysis of chemistry related issues. It is not intended for students that are going to pursue a 4-year college degree in science, math, engineering, or health care related fields**. Prerequisites: Students must have successfully completed Biology.**

Accelerated Chemistry
(352)
Length:1 Year
Grade:10-12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.08

This course is designed to give students a background in the field of chemistry and an appreciation of the importance of chemistry in today's technological society. In the laboratory setting, students will learn how to apply chemistry concepts. The students will explore various experimental designs, utilize technology, and develop conclusions based on experimental information which will be expressed in a lab report format. Topics include the nature of matter, atoms, periodicity, bonding, molecular structure and properties, chemical nomenclature, chemical equations, and stoichiometry. This course will have a strong math component, and students will be expected to perform calculations to support the concepts of a general chemistry class. Because this is an accelerated class, students should expect rigorous assignments and lab work to challenge students beyond the Chemistry requirements. **Prerequisites: Students must be concurrently enrolled in Accelerated Algebra I or have earned a 92% or higher in Algebra I.**

Physics
(360)
Length: 1 Year
Grade: 10-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to emphasize the major concepts of Physics while relating them to everyday applications. Topics for this course will include major concepts of forces, motion, energy, power, and simple machines. Heat, sound, magnetism, electricity, and atomic phenomena will be covered if time allows. Physics will provide the knowledge, prerequisite skills, and habits of mind needed for problem solving and ethical decision making about matters of scientific and technological concern, as well as provide a foundation for personal career choices. It is NOT intended for students that are going to pursue a 4-year college degree in science, math, engineering, or health care related fields. **Prerequisites: Successful completion of Chemistry or Accelerated Chemistry.**

Accelerated Physics
(361)
Length: 1 Year
Grade: 10-12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.08

Physics is the study of the physical phenomena that we encounter in our daily lives. Students work in teams to learn Physics through a method of engagement, exploration, explanation, elaboration, and evaluation. Physics emphasizes the application of mathematics as a tool to describe the physical universe that surrounds us. The course includes the traditional study of Newtonian mechanics, kinematics, and circular motion. The concepts are presented at a level that requires an understanding of algebra, plane geometry, graphing techniques, and the trigonometry of the right triangle. Students work in teams to learn physics through a method of engagement and exploration. Research projects are welcomed and encouraged. This course is intended for students that are going to pursue a 4-year college degree in science, math, engineering, or health care related fields. **Prerequisites: Successful completion of Algebra 2 or Algebra 3 with at least 92% or be taking Pre-Calculus concurrently.**

Environmental Science
(366)
Length: 1 Year
Grade: 11-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to provide an examination of ecology and environmental issues, with laboratory investigations as a major component. Topics investigated include terrestrial ecology with emphasis on forests, aquatic ecology, and wetland ecology. **Prerequisites: Successful completion of Biology. It is required for students to have one Chemistry class prior to this course.**

Chemistry - Advanced Placement
(364)
Length: 1 Year
Grade: 10-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to prepare students for college-level general chemistry. The content of the course is based on the knowledge acquired in general Chemistry. Advanced Placement Chemistry challenges the student to refine and extend his/her knowledge of the subject matter of chemistry and to improve his/her skills in the experimental work in the laboratory. Students who are taking this course are required to take the advanced placement examination for the subject of chemistry. This is a dual enrollment course with Lackawanna College. Students may opt to receive college credit. Eligibility and pricing information can be obtained in the high school guidance office. **Prerequisites: Accelerated Chemistry with a minimum average of 92%, successful completion of Algebra II or above, and instructor approval. Students who score a "3" or higher on their AP exam will have their test- taking fee reimbursed.**

Chemistry – Advanced Placement Lab
(369)
Length: 1 Semester
Grade 10-12
Meeting/ Cycle: Daily
Credit: .50

This course is designed to complement the AP Chemistry course and will introduce students to the principles and techniques of experimental chemistry with emphasis on the application of course material to problem solving in the laboratory. Students enrolled in AP Chemistry will also practice and master the chemistry concepts and quantitative analysis required on the AP Exam.

Anatomy & Physiology
(372)
Length: 1 Year
Grade: 11-12
Meeting/Cycle: Daily
Credit:

This course is essential for anyone who plans to pursue a career in the health sciences, psychology, or physical education. Students will study structural and functional relationships within the human body. This knowledge makes it possible to predict how a cell, organ, or organ system will respond to various stimulus, and how this response affects the person. In addition, the student's ability to evaluate her/his own physiological activities, understand recommended treatments, critically evaluate advertisements and reports in popular literature, and interact with health professionals is improved with this background. Students can expect to study the major body systems with emphasis on cytology, system dissections, nutrition, and genetics. Dissection will be a part of this course. **Prerequisites: Successful completion of Biology with at least one year of Chemistry is required.**

Marine Ecology- Independent Study
(374)
Length: 1 Year
Grade: 11-12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.08

This course is designed to be an independent study of marine ecology. This is an on-line, independent study course with exams proctored by the instructor. Individuals taking this course will need to be self-motivated, as the content will be completed independently, without direct instruction. Deadlines for units will be established by the instructor, and these will be expected to be met. The instructor will communicate with students via e-mail/Remind and personal contacts outside of the traditional class. Activities will include hands-on, independent labs, written reports and papers. Topics will include the marine environment, plankton, nekton, benthos, deep sea ecology, coral reef ecology and intertidal ecology. All on-line readings, activities and labs are required for successful completion of this course. Unit exams will be proctored. Students should expect to spend a minimum of 120 hours on the course. **Prerequisite: Successful completion of Biology and Chemistry, or Accelerated Chemistry and instructor approval.**

Physics - Advanced Placement
(380)
Length: 1 Year
Grade 11-12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.2

AP Physics is intended for those students who plan to major in the physical sciences, mathematics, engineering, and medicine and who plan on taking the AP Physics C – Mechanics Exam. This class is intended to be representative of a common college or university level calculus-based physics course (mechanics and dynamics). Students who are taking this course are required to take the advanced placement examination for the subject of AP Physics C Mechanics exam. The main emphasis of AP Physics at Muncy Junior Senior High School is to develop the students' abilities to use mathematical reasoning in problem solving and physical situations and to perform experiments and interpret the results of observations.
Prerequisites: Successful credit and completion of Pre-Calculus with a final grade of 92% or better; taking Calculus or AP Calculus concurrently. Students who score a "3" or higher on their AP exam will have their test- taking fee reimbursed.

Physics – Advanced Placement Lab
(381)
Length: 1 Year
Grade 11-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to complement the AP Physics Course. This course will provide additional emphasis on the application of course material to problem solving strategies and laboratory investigations. Students enrolled in AP Physics will also have the opportunity to sharpen their problem-solving skills and deepen their understanding of physics principles required for the AP Physics C – Mechanics Exam. Much of the time in the lab will be spent on laboratory activities or improving problem solving skills.

SOCIAL STUDIES

American Civics
(231)
Length: 1 Year
Grade: 9
Meeting/Cycle: Daily
Credit: 1

This course is designed to focus on citizenship rights and responsibilities. Students will examine immigration, naturalization, voter rights and governmental functions. The structure of the federal, state, and local governments will be examined, with major emphasis placed on the national and local governments. This course will enhance students' abilities to understand government in everyday life and take an active role in all levels of government. Students are required to take a Pennsylvania final exam in this course.

World Cultures II
(241)
Length: 1 Year
Grade: 10
Meeting/Cycle: Daily
Credit: 1

This course is a blend of ancient and contemporary resources designed to increase students' knowledge of the effects of history and geography on various cultures. The course emphasizes world history and geography from the Enlightenment to the twentieth century.

American Cultures II
(252)
Length: 1 Year
Grade: 11
Meeting/Cycle: Daily
Credit: 1

This course is designed to provide a study of American history and culture from 1865 until the present, emphasizing the economic, social, and political development of the United States over the last century and a half of American history. This course focuses on why political movements have taken place, what effects they have had, and what are the dynamics of the United States currently.

Principles of Democracy/Economics
(260)
Length: 1 Year
Grade: 12
Meeting/Cycle: Daily
Credit: 1

This course is a survey of American government and economic systems by concentrating on how the government affects our society, students will become acquainted with the political, economic, and social problems that face our nation today. The purpose of the Economics section is to introduce both micro and macroeconomics by examining how individuals and nations make choices and how those choices affect our government and society.

Contemporary History
(264)
Length: 1 Semester
Grade: 10-12
Meeting/Cycle: Daily
Credit: .50
Weight: 1.08

This course focuses on major foreign and domestic problems facing the United States today. The class will examine the impact of any current issue facing the country or the world. Students will analyze and evaluate the alternatives the United States government has in handling problems and the possible impact of carrying out those potential alternatives.

Sociology
(265)
Length:1 Year
Grade:10-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to be an interdisciplinary approach to the study of human behavior and relationships. It provides students with a comprehensive study of basic concepts principles and practices of sociology, while incorporating examples from psychology, world cultures, geography, and anthropology. Major emphasis is placed on critical thinking and writing in the social sciences.

U.S. History - Advanced Placement
(266)
Length: 1 Year
Grade: 11-12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.2

This is a survey course of United States History from 1491-to present it is designed to provide a comprehensive overview of U.S. History. The goal is for students to be prepared to take the college-level examination, which could earn college credit in U.S. History. All students enrolling in this course are required to take the Advanced Placement Examination offered in May. This is a dual enrollment course with Lackawanna College. Students may opt to receive college credit. Eligibility and pricing information can be obtained in the high school guidance office. **Prerequisites: Final average of 92% in the previous course and teacher recommendations will be considered. Students who score a "3" or higher on their AP exam will have their test- taking fee reimbursed.**

U.S. History- Advanced Placement Lab
(267)
Length: 1 Semester
Grade 11-12
Meeting/ Cycle: Daily
Credit: .50

Students enrolled in AP Lab will have the opportunity to sharpen their skills, deepen their understanding and interpretation of American History necessary in preparing for the AP exam.

Advanced Placement Psychology
(270)
Length: 1 Year
Grade 10-12
Meeting/Cycle: Daily
Credit: 1
Weight: 1.2

Advanced Placement Psychology is designed to provide students with a systematic and scientific study of behavior and mental processes of humans and other animals. Students will be introduced to the core concepts of Psychology in both traditional and contemporary viewpoints. Other subfields and associated material provide students with a broad spectrum of understanding in the field of human studies and social understanding. This course is designed as an equivalent to a university course of 101 Introduction to Psychology. Students will be expected to handle moderate amounts of reading and understanding on scientific theory, replication of historical and modern psychological research, and analysis of scientific experiments. All students enrolling in this course are required to take the Advanced Placement Examination offered in May. This is a dual enrollment course with Lackawanna College. Students may opt to receive college credit. Eligibility and pricing information can be obtained in the high school guidance office**. Prerequisites: Final average of 92% in the previous course and teacher recommendations will be considered. Students who score a "3" or higher on their AP exam will have their test- taking fee reimbursed.**

Advanced Placement Psychology Lab
(271)
Length; 1 Semester
Grade 10-12
Meeting/Cycle: Yearly
Credit: .50

This complimentary course is designed to enhance and reinforce the ideas and instruction in AP Psychology. In this course students will commonly use scientific data or methods to validate or refute historical and contemporary psychological experiments and methods of research. Lab work is meant to be equivalent to that of a college freshman course level.

UNIFIED ARTS

Ceramics
(781)
Length: 1 Semester
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50

This course is designed for students to develop different techniques with clay and glass. Exposing students to the aesthetics relevant to various media and techniques of the cultures from which they evolved is part of the process. Students will create original clay art using the Principles & Elements of Art in projects such as tiles, mosaics, hand-built construction, and drape ware. Students will spend the second half of the year exploring the possibilities of art with glass. Students will again create original art using the Principles & Elements of Art in glass projects such as fused glass, glass slumping, dichroic glass, and stained glass. Students will learn to evaluate, analyze, and critique their own work and that of others in a productive way using art specific vocabulary. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course**

Drawing and Painting
(782)
Length: 1 Semester
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50

This course is designed for students to delve into the mechanics of drawing/ painting. Students will be exposed to the aesthetics relevant to various media and techniques from which they evolved. Students will demonstrate knowledge and use of the Principles & Elements of each art form in production of specific drawing and painting projects and verbal articulation of explanations and critiques. Projects will encompass still-life drawing, landscape, human form, three-dimensional art, color theory, and computer-generated art. Students will learn to evaluate, analyze, and critique their own work and that of others in a productive way using art specific vocabulary. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Textiles and Design
(783)
Length: 1 Semester
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50

This course is designed for the student to explore different materials, techniques and design aspects within each medium. Students will be exposed to the aesthetics relevant to various media and techniques of the cultures from which they evolved. Students will create original textile art using the Principles & Elements of Art in projects such as fabric dying, batik, gutta resist, weaving, paper making, book art, printmaking, quilting and embellishing. Students will learn to evaluate, analyze, and critique their own work and that of others in a productive way using art specific vocabulary. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course**.

Graphic Arts
(786)
Length: 1 Semester
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50

The Graphic Arts course covers a broad range of art forms. Graphic art is typically two-dimensional and includes calligraphy, photography, drawing, painting, printmaking, lithography, typography, silk-screen printing, and bindery. This course is designed to also have a computer-generated component for the art class. Students will be using Photoshop type applications along with other desktop programs to enhance graphic art projects. Students will learn to evaluate, analyze, and critique his/her own artwork and that of others in a productive way using art specific vocabulary. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Music

Band 9 - 12
(701- Full Year) or (702- One Semester)
Length: 1 Semester or 1 Year
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50 or 1

This course is designed for the student who wishes to further his/her knowledge of music and their instrument through performances. This class rehearses in school as well as after school to prepare for the various concerts and home football games throughout the year. Any junior high student enrolled in this class will have the opportunity to audition to perform in the Lycoming County Band Directors Association Junior County Band Festival. Additionally, any senior high student enrolled in this class will have the opportunity to audition to perform in other ensembles outside of Muncy Jr./Sr. High School. (A student may take band and chorus simultaneously during a semester.) **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Chorus 9-12
(711- Full Year) or (712- One Semester)
Length: 1 Semester or 1 Year
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50 or 1

This course is designed for the student to further his/her knowledge of music and vocal music through performance. This class rehearses in school to prepare to perform in concerts throughout the school year. Any seventh and eighth grade student enrolled in this class will have the opportunity to audition to perform in the Lycoming Junior High County Chorus Festival. Any Senior High student enrolled in this class will have the opportunity to audition to perform in PMEA Festivals. (A student may take chorus and band simultaneously during a semester.) **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Industrial Arts/Technology and Engineering Education

CAD I
(735)
Length: 1 Semester
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50

This course is designed as an introductory course in which students will learn the basics of technical drawing, as well as rendering and rapid prototyping. Students will learn basic board drafting techniques as well as geometric constructions. Instruction in the use and function of the computer aided drafting (CAD) programs and accepted drafting techniques and conventions will be demonstrated. Students will explore 2D CAD and 3D solids modeling programs as well as integration of vector and raster image programs into the engineering design process. This course is recommended for students interested in entering the fields of engineering (civil or mechanical), drafting/design and/or architecture. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Technology I
(736)
Length: 1 Semester
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50

This course is designed to be a direct application of current technical topics in manufacturing, construction, communications, energy, power, and biotechnology. The main goal of this course is to provide instruction in the use of technology for identifying and collecting data, making, and validating hypotheses, and problem solving. Mathematical reasoning and mathematical concepts such as charting and graphing will also be part of the course content. This course is for any student with a strong desire to learn how technology applies to a wide variety of industrial and experimental applications. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course**.

Methods and Material of Woodworking I
(745)
Length: 1 Semester
Grade 9-12
Meeting/Cycle: Daily
Credit: .5

This course is designed to be an introductory course where students will learn the science of various materials and gain experience in working with various building materials. This course is designed to teach students basic scientific properties of materials as well as proper tools and techniques for cutting, shaping, and finishing each medium. Students will work individually to complete projects that incorporate wood, plastics metals, ceramics, concrete and engineered materials. In a culminating experience, students will employ skills learned throughout the course to design and fabricate a project of their choice with the permission of the instructor. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Technology II
(748)
Length: 1 Year
Grade: 9-12
Meeting/Cycle: Daily
Credit: 1

This course is designed to be a study of advanced applications in manufacturing, construction, communications, energy, power, and biotechnology. The main goal of this course is to provide instruction in the use of technology for identifying and collecting data, making, and validating hypotheses and problem solving. Mathematical reasoning and mathematical concepts such as charting and graphing will also be part of the course content. Advanced applications in digital electronics, robotics, CAD/CAM, and graphical design technology will be explored. Students will be expected to develop prototype solutions to real- world problems and communicate design solutions to their peers. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Methods and Material of Woodworking II
(755)
Length: 1 Semester
Grade 9-12
Meeting/Cycle: Daily
Credit: .50

This course is designed to be an intermediate course where students will learn the science of various materials and gain experience in working with various building materials. This course is designed to teach students in-depth scientific properties of materials as well as proper tools and techniques for cutting, shaping, and finishing each medium. Students will work individually to complete projects that incorporate wood, plastics, metals, ceramics, concrete and engineered materials. In a culminating experience, students will employ skills learned thought the course to design and fabricate a project of their choice with the permission of the instructor. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Methods and Materials of Woodworking III
(765)
Length: 1 Semester
Grade 10-12
Meeting/Cycle: Daily
Credit: .50

This course is designed to be an advanced course in which students will learn advancements in material science. Students will gain experience in material processing techniques as well as tool care and maintenance. Students will explore concepts and techniques in bending wood, forming plastics, casting ceramics, and employing advanced finishing techniques. Students will complete projects to gain experience in each medium. In a culminating experience, students will employ skills learned thought the course to design and fabricate a project of their choice with the permission of the instructor. **A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

CAD II- Independent Study
(766)
Length: 1 Semester
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50

Architecture is an advanced course where students will learn advanced elements of technical drawing, rendering and rapid prototyping. Instruction in the use and function of the computer aided drafting (CAD) programs and accepted drafting techniques and conventions will be demonstrated. Elements of house design from planning to design consideration will be addressed. Students will learn about house designs from the aspects of structure, interior, exterior, roofs, plumbing, electrical, HVAC and engineering design. Exercises are designed for students to learn about aspects and codes involved in each element of house design from foundation planning to kitchen design. Students will explore Building Information Modeling (BIM) which allows for structural analysis as well as cost analysis. This course is recommended for students interested in entering the fields of Architecture, drafting/design and/or Architectural Engineering and is for students who are self-motivated to learn independently, in an online environment. **Prerequisites: Successful completion of CAD I and teacher recommendation. A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

CAD III- Independent Study
(769)
Length: 1 Semester
Grade 10-12
Meeting/Cycle: Daily
Credit: .50

Solid Modeling is an advanced course where students will learn advanced elements of technical drawing, rendering and rapid prototyping. Instruction in the use and function of the computer aided drafting (CAD) programs and accepted drafting techniques and conventions will be demonstrated. Elements of Engineering Design will be addressed from part creation to assembly to engineering drawing creation. Students will study on-screen testing analysis, rendering, and animation of mechanical drawings using SolidWorks. Units in mechanics such as power transmission, pneumatics and hydraulics will be studied. Students will also gain insight into the world of automation through the study of LASER, CNC, and rapid prototyping activities. This course is designed to be for students who are interested in the field of Mechanical Engineering and who have a desire to learn in an independent, online environment and experiment with 3D drawing software. **Prerequisites: Successful completion of CAD I and teacher recommendation. A warning to all prospective student athletes at the NCAA level: the NCAA Clearinghouse does not approve this course.**

Family and Consumer Science

Family and Consumer Science I
(744)
Length: 1 Semester
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50

Family & Consumer Science I is composed of activity-based units based on several different areas of Family Consumer Science, which includes the culinary arts, child development, finance, and sewing/textiles. Topics include kitchen safety and sanitation, measurement, leavening, food preservation, hand sewing basics, E-textiles, childhood literacy and intellectual development, and how to be a good consumer. **A warning to all prospective student athletes at the NCAA level: this course is not approved by the NCAA Clearinghouse.**

Tastes of Culture
(754)
Length: 1 Semester
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50

The Tastes of Culture course explores the connections between what we eat and cultures around us. As we move around the globe, this course will cover the history and topography as it relates to each region's dietary customs, cuisines and cooking methods. By investigating cultural, spiritual, and social influences on food choices, you can gain an awareness and understanding of diverse populations within our society. **A warning to all prospective student athletes at the NCAA level: this course is not approved by the NCAA Clearinghouse.**

Family and Consumer Science II
(756)
Length: 1 Semester
Grade: 9-12
Meeting/Cycle: Daily
Credit: .50
Family & Consumer Science II is designed to provide students with basic food preparation methods, such as roasting, baking, steaming, sautéing, and slow cooking. It includes freezing, canning, and drying of local, seasonal food, to preserve for future use. The baking unit will emphasize yeast bread. Students will also explore ethnic foods and dishes. Students will also explore how to operate and create unique projects on a sewing machine and various consumerism and independent living skills throughout the course. **A warning to all prospective student athletes at the NCAA level: this course is not approved by the NCAA Clearinghouse.**

Special Education

Academic Instructional Support
(090 -092)
Length: 1 Year
Grade: 9-12
Meeting/Cycle: Daily
Credit: 1

This course is designed for identified students. The class is designed to facilitate and develop independent work ethics and study habits that will provide students with skills to be successful beyond high school. Additionally, this course focuses on progress monitoring of individualized education plan (IEP) goals. This course is a requirement for all identified students during both semesters of the school year. **A warning to all prospective student athletes at the NCAA level: this course is not approved by the NCAA Clearinghouse.**

Lackawanna College Dual Enrollment

The Muncy School District entered into a dual enrollment agreement with Lackawanna College for the 2026-2027 school year. Many of our AP courses have dual enrollment with Lackawanna College as noted in this course description guide. If students and/or their families are willing to pay the tuition costs associated with dual enrollment, they can receive college credit from Lackawanna College. The Muncy School District makes no guarantees that dual enrollment credit through Lackawanna College will be transferred to an institution of higher learning post-graduation. Tuition cost for Lackawanna College dual enrollment courses is set at 100 dollars per credit for the 26-27 school year. The credit value of courses is based upon Lackawanna College credit scale, not the Muncy High School credit scale. Payment is directly payable to Lackawanna College on a due date established by them.

Lackawanna College has a limited amount of online elective courses that we are offering to Muncy High School juniors and seniors in a dual enrollment format. Juniors and seniors must pay the 100 dollars per credit dual enrollment fee to take these courses as an independent study in the school library. All dual enrollment independent study courses must be a minimum of a semester in length. If a Muncy student wants to take an eight-week dual enrollment elective course through Lackawanna College, they must take a second 8-week course to satisfy the minimum semester requirements. For a junior or senior to qualify they must have attained an 83% or higher cumulative GPA at the conclusion of the preceding school year.

Lycoming Carrer and Technology Center

Students may enroll in a vocational-technical system offering program clusters through the Lycoming Career Center. The program clusters are three years/levels; a student may enroll for one to three years in grades 10, 11, or 12. If you are seeking entry level technology skills, not sure of a career choice; desiring specialized technical training relating to a college major - contact your guidance counselor. Admittance into LCTC is at the discretion of the sending school. There are several factors which determine if a Muncy High School student will be eligible to attend LCTC. The three main factors are attendance history (including tardies), prior discipline referrals, and academic standing. All three of these factors will be examined for each student who requests to attend LCTC prior to their enrollment. The following coursed descriptions were written by LCTC instructors and were approved by their local governing body.

Lyco CTC Career Pathways – Program Offerings for 2026-2027

See LCTC Course Catalog