

# **COURSE DESCRIPTIONS**

## **2020-2021**



*Mount Union Area Jr/Sr High School*

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*Mount Union, PA 17066*

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[www.muasd.org](http://www.muasd.org)

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## Promotion & Graduation Requirements

The Minimum number of credits needed for graduation at Mount Union Area High School is 25 credits. Seven full credit courses must be scheduled by each student in each grade. Under Chapter Four of the Pennsylvania Department of Public Education, specified courses listed below must be included in the 25 credits required for graduation in the 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grades. Physical education, health and safety education are required in the proper grade.

<u>Required Courses</u>	<u>Credits</u>
English (4 courses 9, 10, 11, 12)	4.00
Social Studies (3 courses)	3.00
Science (3 courses)	3.00
Mathematics (3 courses)	3.00
Humanities (2 courses)	2.00
Health and Physical Education	1.50
Electives & Graduation Project	<u>8.50</u>
	25.00

### **Note:**

- A freshman must earn 6 credits to be classified as a sophomore.
- A sophomore must earn 12 credits to be classified as a junior.
- A junior must earn 18 credits to be classified as a senior.
- A senior must earn 25 credits to graduate.
- Student must score advanced or proficient in the Keystone Exams in the content areas of Algebra I, Biology, & Literature.

### Seventh and Eighth Grade Promotion Requirements

Credits earned in grades seven and eight will not count towards graduation. Students in seventh and eighth must earn six credits, five of which must include subjects (Mathematics, English, Science, Social Studies) in order to advance to the next grade level.

## Grading System

Grading Scale 65% - 100%

Grades below 65% reflect unsatisfactory achievement; no credit will be awarded.

Letter grades and percentage grades will appear on report cards as follows:

A+ 99-100	B+ 90-91	C+ 81-82	D+ 72-73
A 95-98	B 86-89	C 77-80	D 68-71
A- 92-94	B- 83-85	C- 74-76	D- 65-67
			F Under 65

### Grade Point Average

GPA is the grade point average of all classes a student takes and receives a percentage grade. This grade point average is used to determine class rank, honor roll, and academic eligibility. GPA includes both weighted and non-weighted grades.

### WEIGHTED GRADES

Certain courses offered at MUAHS consist of subject material that is more extensive and challenging than a general course. These courses are given weighted grades. Weighted grades are intended to:

- Encourage students to enroll in more challenging courses,
- Enable students in more difficult courses to have equal opportunities for awards, class rank, honor roll, etc.
- Reward students for extra efforts required for the more rigorous courses.

Two levels of weighted grades exist - partial weighting and full weighting. Partial- weighted courses are subjects that are more rigorous than a general course but are not as difficult as the full-weighted courses. The full-weighted courses are Advanced Placement (AP) courses or the close equivalent.

The weighting of courses will not appear in the actual percentage reported as the student grade. It will appear in the Grade Point Average (GPA) reported for that course, and will be averaged into the total GPA. The grade points assigned for weighted courses will be greater than the grade points in non-weighted courses. For instance, a 90% in a partial-weighted course would receive 3.55 grade points while a 90% in a non-weighted course would receive 2.80 grade points. A conversion chart will be made available to parents/guardians of students enrolled in weighted courses so that comparisons can be made.

All passing grades (65% or above) will be weighted. If a student fails (64% or below) the weighted subject for a marking period he/she will not receive any weighting benefit. Failure of a marking period in a weighted course may result in an evaluation meeting involving student, parents, teacher, guidance and administration to determine if the student should remain in the course.

To be eligible to enroll in weighted courses, a student must meet the following guidelines:

- Students who wish to enroll in a course in a subject area (English, science) that carries the same weighting (partial to partial) must have either a minimum grade of 86% **or** have recommendation of subject instructors.
- Students who wish to enroll in weighted courses in a subject area that have a higher level of weighting ( non to partial, partial to full) must have both a minimum grade of 86% **and** recommendations of subject instructors.

Students will schedule these courses prior to the end of the school year, but the enrollment criteria will be evaluated based upon final grades. Only grades for subjects taken at MUAHS will be weighted.

#### Weighted Grading Scale

Percent	Full	Partial	No Wgt
100	5.50	4.75	4.00
99	5.48	4.73	3.98
98	5.47	4.72	3.97
97	5.46	4.71	3.96
96	5.45	4.70	3.95
95	5.44	4.69	3.94
94	5.40	4.65	3.90
93	5.30	4.55	3.80
92	5.20	4.45	3.70
91	5.10	4.35	3.60
90	5.00	4.25	3.50
89	4.90	4.15	3.40
88	4.80	4.05	3.30
87	4.70	3.95	3.20
86	4.60	3.85	3.10
85	4.50	3.75	3.00
84	4.40	3.65	2.90
83	4.30	3.55	2.80
82	4.20	3.45	2.70
81	4.10	3.35	2.60
80	4.00	3.25	2.50
79	3.90	3.15	2.40
78	3.80	3.05	2.30
77	3.70	2.95	2.20
76	3.60	2.85	2.10
75	3.50	2.75	2.00
74	3.40	2.65	1.90
73	3.30	2.55	1.80
72	3.20	2.45	1.70
71	3.10	2.35	1.60
70	3.00	2.25	1.50
69	2.90	2.15	1.40
68	2.80	2.05	1.30
67	2.70	1.95	1.20
66	2.60	1.85	1.10
65	2.50	1.75	1.00

## **ACCESS TO STUDENT RECRUITING INFORMATION**

All local educational agencies (MUAHS) by law must provide to military recruiters upon request the same access to secondary school student directory information as is generally provided to post secondary educational institutions and prospective employers of those students. This information is provided annually by (MUAHS) to military recruiters.

**It is a parent's or student's right to request that this information not be disclosed without prior written consent.** The type of information disclosed is generally not considered harmful or an invasion and includes such items as names, addresses, and telephone numbers.

Because this information is generally released with the first month of a new school year, a parent or student should submit his or her **written request** for exclusion no later than the first week of school of each new school year stating exactly who should not have access to the requested information. Requests for exclusion should be directed to the Senior High Guidance Office. Additional information at the high school can be obtained by calling 814-542-2518.

## **Support Special Services and Individual Educational Program Students**

Mount Union Area High School Students are provided support or special services and accommodations may be provided when disadvantaged, disabled or limited English-speaking students are enrolled in the courses.

^^ All course offerings are subject to change.

# **ENGLISH DEPARTMENT**

## **ENGLISH I (130) (130I) – Grade 9**

This course covers basic skills in five areas: grammar, composition, literature, vocabulary, and research. Grammar studies include a review of basic elements, mechanics, usage, agreement, phrases, and clauses. Composition includes sentence structure, paragraph writing, and paragraph revision. Library work will be done in conjunction with the librarian. Vocabulary will be studied through weekly lessons.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Elements of Literature, 3rd Course, Elements of Writing, 3rd Course, Warriner's Vocabulary Workshop, 3rd Course.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **ACADEMIC ENGLISH I\* (131) - Grade 9**

This course is designed for students who have expressed an interest in post-secondary academic education. Coursework will cover skills in five areas: grammar, composition, literature, vocabulary, and research. Grammar studies include a review of basic elements, mechanics, usage, agreement, phrases, and clauses. Composition includes sentence structure, paragraph writing, paragraph revision, and responding to literature. Library work will be done in conjunction with the librarian. Vocabulary will be studied through weekly lessons. Teacher recommendation required.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Elements of Literature, 3rd Course Holt, Elements of Writing, 3rd Course, Shostak's Vocabulary Workshop

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **ENGLISH II (140) (140I) – Grade 10**

This course covers basic skills in grammar, literature, composition, research, and vocabulary. Grammar studies include sentence construction and order, usage, and mechanics. Literature involves a general study of literary forms and techniques. Composition introduces the students to other forms of writing as well as refining known techniques in paragraphing, essay writing, and composition. Vocabulary skills continue to be developed through weekly lessons. Research skills are practiced and organizational skills in thought and writing are developed.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Elements of Literature, 4th Course, Holt, Element of Writing, 4th Course

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **ACADEMIC ENGLISH II\* (141) – Grade 10**

This course is designed for students who have expressed an interest in post-secondary, academic education. This course covers skills in grammar, literature, composition, research, and vocabulary. Grammar studies include sentence construction and order, usage, and mechanics. Literature involves an in-depth study of literary forms and techniques. Composition introduces the students to other forms of writing, as well as refining known techniques in paragraphing, essay writing, and composition. Vocabulary skills continue to be developed through weekly lessons. Research skills are practiced, and organizational skills in thought and writing are developed. Teacher approval required.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Elements of Literature, 4th course, Elements of Writing, 4th Course, Shostak's Vocabulary Workshop

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **ENGLISH III (150) (150I) – Grade 11**

This course covers basic skills in five areas: grammar, literature, research, composition, and vocabulary. Grammar studies include the study of sentence structure, usage, and mechanics. Literature involves the study of various literary forms as well as a chronological study of American literature. Composition allows the student to improve skills in paragraphing, essay and summary writing, and general organizational skills in writing and thought. Vocabulary study will continue on a weekly basis.

TEXTBOOK: Elements of Literature, 5th Course, Warriner's English Grammar and Composition, Elements of Writing, 5th Course,

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### ACADEMIC ENGLISH III\* (151) – Grade 11

This course is designed for students who plan to attend a post-secondary institution. This course covers advanced skills in five areas: grammar, literature, research, composition, and vocabulary. Grammar studies include the review of sentence structure, usage, and mechanics. Literature involves the study of various literary forms as well as a chronological study of American literature. Research involves mastery of the library and the writing of a research paper. Composition stresses improvement in paragraphing, essay and summary writing, specific organizational skills in writing and thought as well as analysis and synthesis. Vocabulary study will continue on a weekly basis. Teacher approval required.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Elements of Literature, 5th course, Elements of Writing, 5th Course, Shostak's Vocabulary Workshop,

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### ENGLISH IV (160) (160I) – Grade 12

This course includes three basic sections: usage and composition, literature, and research. The usage/composition aspect of the course serves to review the principles of usage and sentence structure as the foundation for comprehension and writing skills. The research aspect of the course involves instruction in the proper method of writing a research paper. The literature section of the course is a chronological study of English literature from the Anglo-Saxon period to the twentieth century and may include selected outside reading.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Elements of Literature, 6th Course,

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### ACADEMIC ENGLISH IV\* (161) – Grade 12

This course is directed at those students who plan to attend a post-secondary institution. This course includes three basic sections: usage and composition, literature, and research. The usage/composition aspect of the course serves as review the principles of usage and sentence structure as the foundation for comprehension and writing. The research aspect of the course involves instruction in the proper method of writing a research paper and the actual writing of a research paper. The literature section of the course is a chronological study of English literature from the Anglo-Saxon period to the twentieth century and selected outside reading. Teacher approval required.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Elements of Literature, 6th course, Warriner's English Grammar and Composition, 6th Course, Shostak's Vocabulary Workshop, Vocabulary for the College Bound, Level D

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### AP ENGLISH \*\* (162) – Grade 12

Advanced Placement in English is designed to engage students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and skilled writers of narrative, explanatory, expository, and argumentative form. The overall goal of this class is to enable students to write effectively and confidently in their future courses. Teacher approval is required for admission to this course.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if student pays the tuition fees this course may be taken for college credits from Mount Aloysius College

## ENG 110 ENGLISH COMPOSITION I\* (E001) – Grade 11 Cohort Penn Highlands

English Composition I will emphasize the techniques of writing expository essays with stress upon careful thinking, word choice, sentence structure, and methods of organization. Students practice the writing of clear, coherent, and unified paragraphs and essays. Editing skills and the use of correct grammar and mechanics are also emphasized. Students are taught research skills and are required to write an argumentative research paper. This is the standard college English composition course. This class cannot replace an English credit.

PREREQUISITE: Placement testing

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if student completes Penn Highlands placement test and pays the tuition fees this course may be taken for 3 credits from Penn Highlands

## English/Math Elective

### SAT PREP - MATH & READING (ELE001), Grades 10-11

Reading/math SAT Prep is designed primarily for sophomores and juniors who are preparing to take the SAT's. Standardized test taking strategies and concepts in the reading/math portion of the SAT will be emphasized. Teachers will alternate by marking period. Pass or Fail Grade. \*This course is not calculated into the student's GPA.

PREREQUISITE: English I/Algebra II

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: TBA

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## MATHEMATICS DEPARTMENT

### ALGEBRA I (330) (330h\*)- Grade 9

In Algebra I students will study patterns that can be extended, described, and generalized and represent and analyze relationships using words, tables, graphs, and equations. Students will also study families of functions that exhibit properties and behaviors that can be recognized across representations. All students enrolled in Algebra I will take the Algebra I Keystone Exam near the end of the course.

TEXTBOOK: Algebra (Structure and Method), Book 1; McDougal Littell

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### ALGEBRA 1A (382) – Grade 9

A scientific calculator is recommended for this class. This course introduces the student to algebraic reasoning as applied to operations with real number expressions, linear equations and inequalities and data analysis with an emphasis on real world applications. It also is a course designed to help students fine-tune their pre-algebra skills. The students will see applications of math topics through problem solving, technology and cooperative learning activities. Students will **not** take the Keystone Algebra Exam until the completion of Algebra 1B.

Enrollment in this class is by teacher placement only.

CREDIT TO BE AWARDED: One credit

### Algebra 1B (383)– Grade 10

A scientific calculator is recommended for this class. This course is a continuation of Algebra 1A. Students will continue their algebraic reasoning and apply it to functions, coordinate geometry, systems of linear equations and inequalities. The students will see applications of math topics through problem solving, technology, and cooperative learning activities. Students **will** take the Keystone Algebra Exam once they have completed BOTH Algebra 1A and Algebra 1B.

Enrollment in this class is by teacher placement only.

PREREQUISITE: Algebra 1A and Teacher recommendation

CREDIT TO BE AWARDED: One credit



## ALGEBRA II (340) – Grade 10, 11, 12

Algebra II includes, but is not limited to the following areas: basic concepts of Algebra, inequalities, linear equations and functions, products and factors of polynomials, rational expressions, irrational and complex numbers, quadratic equations and functions, variations and polynomial equations, number systems and non-linear expressions, and data analysis.

PREREQUISITE: Algebra I and Teacher Recommendation.

TEXTBOOK: Algebra & Trigonometry, Structure and Method, Book 2, /McDougal Little II/Houghton Mifflin,

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## ALGEBRA II\* (341) – Grade 9, 10, 11, 12

Algebra II includes but is not limited to the following areas: basic concepts of Algebra, inequalities and proofs, linear equations and functions, products and factors of polynomials, rational expressions, irrational and complex numbers, quadratic equations and functions, and variations and polynomial equations.

PREREQUISITE: Algebra I and Teacher Recommendation

TEXTBOOK: Algebra & Trigonometry, Structure and Method, Book 2, /McDougal Little II/Houghton Mifflin,

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## GEOMETRY (MA014) – Grade 10, 11, 12

Geometry topics include: the properties of circles, spheres, and cylinder; polygons and polyhedral; congruence, similarity, and informal proofs; coordinate geometry; measurements of two-dimensional shapes and figures; measurements of three-dimensional shapes and figures.

PREREQUISITE: Algebra II and Teacher Recommendation.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS:

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## GEOMETRY/TRIGNOMETRY\* (384) – Grade 10, 11, 12

Geometry topics include: the properties of circles, spheres, and cylinder; polygons and polyhedral; congruence, similarity, and informal proofs; coordinate geometry; measurements of two-dimensional shapes and figures; measurements of three-dimensional shapes and figures, and right triangles.

Trigonometry topics include: trigonometric functions; right triangle trigonometry; radian measure and circular functions; trigonometric graphs, identities, and equations; vectors; and polar coordinates

PREREQUISITE: Algebra II and Teacher Recommendation.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS:

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## INTERMEDIATE COLLEGE ALGEBRA\* (MA0020) – Grade 10, 11, 12

This course is designed to prepare students for higher level mathematics through a mastery of algebraic concepts. Topics include factoring, laws of exponents, polynomials, equations and linear inequalities, graphing (using linear equations and inequalities), functions, rational expressions, and radicals.

PREREQUISITE: Algebra II & Teacher Recommendation.

LENGTH OF COURSE: One year

CREDIT TO BE AWARDED: One Credit

\*if student completes Penn Highlands placement test and pays the tuition fees this course may be taken for 3 credits from Penn Highlands

## COLLEGE ALGEBRA\* (MA005) – Grade 10, 11, 12

College Algebra includes complex algebraic skills. Students enrolled in this course should have a strong background in basic and intermediate algebra. Topics include a more in depth study of expressions, solving equations, solving inequalities, circles, and a detailed study of functions and their graphs including polynomial, rational, exponential, and logarithmic functions.

PREREQUISITE: Algebra II & Teacher Recommendation.

TEXTBOOK: College Algebra, 5e, Blitzer

LENGTH OF COURSE: One year

CREDIT TO BE AWARDED: One Credit

\*if student completes Penn Highlands placement test and pays the tuition fees this course may be taken for 3 credits from Penn Highlands

## PRE-CALCULUS w/Trigonometry\* (392) – Grade 10, 11, 12

Pre-Calculus topics include, but are not limited to: polynomial, rational, exponential, logarithmic, and trigonometric functions and their graphs; analytic trigonometry; limits and introductory calculus concepts.

PREREQUISITE: Algebra II & Teacher Recommendation.

TEXTBOOK: Pre-Calculus with Limits, A Graphing Approach, 7e, Larson

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## PROBABILITY & STATISTICS (387) – Grade 11, 12

This course will be an elementary approach with practical examples. It will explore the basic concepts of descriptive statistics, collection and analysis of data, statistical design, graphical representations, computing probability and hypothesis testing. Students will learn to produce meaningful data by sample, experiment, and surveys. This course will help prepare students for probability and statistics concepts they may encounter in higher-level math and/or at the college level.

PREREQUISITE: Algebra I and Algebra II

CREDIT TO BE AWARDED: One credit

## COLLEGE STATISTICS\* (MA0019) – Grade 11, 12

Students will be exposed to concepts and tools in order to collect, analyze, and draw conclusions from data. Units of study include summary statistics, graphical display, experimental design, normal distributions, and inferential statistics. Test of significance as well as confidence interval will be addressed in the inferential statistics unit.

PREREQUISITE: College Algebra or Pre-Calc with 86% or better.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if student completes Penn Highlands placement test and pays the tuition fees this course may be taken for 3 credits from Penn Highlands

## AP CALCULUS\*\* (393) – Grade 12

AP Calculus involves the study of: limits and their properties; differentiation; applications of differentiation; integration; logarithmic functions, exponential functions, and other transcendental functions; applications of integration; integration techniques and L' Hospital's Rule.

PREREQUISITE: Pre-Calculus and Teacher Recommendation.

TEXTBOOK: Calculus of a Single Variable (7<sup>th</sup> Ed), Houghton Mifflin

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if student pays the tuition fees this course may be taken for college credits from Mount Aloysius College

## APPLIED MATHEMATICS I (MA0017) – Grade 12

Applied Mathematics is intended primarily for students who desire a development of practical real world math, for those students considering a job immediately following high school. Topics will include but not limited to, engineering, finance, construction, taxes, and electrical.

LENGTH OF COURSE: One Year

CREDIT AWARDED: One Credit

## SCIENCE DEPARTMENT

### SCIENCE 9 (225) (225I) - Grade 9

This course is designed to encourage and engage student inquiry to promote science literacy, critical thinking and problem solving. A wide range of activities apply knowledge of scientific investigation with elements of experimental design, pattern recognition, and system analysis. Critical components include observation skills, data collection and interpretation, measurements, variable recognition, communication techniques, and real world application. Topics include measurements, classification of matter and properties, phases of matter, elements, solutions, motion, forces, energy, carbon chemistry, and environmental topics.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Physical Science: Concepts in Action, Prentice Hall

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### ACCEL SCIENCE 9\* (226) – Grade 9

This course is intended for the 9<sup>th</sup> grade student who has interest in post-secondary science areas. The course is designed to encourage and engage student inquiry to promote science literacy, critical thinking, and problem solving. The topics include measurements, classification of matter and properties, phases of matter, elements, solutions, motion, forces, simple machines, energy, carbon chemistry, polymers, and environmental topics. Emphasis is placed on faster pace and independent work. A major investigation project will be evaluated with each area of study.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Physical Science: Concepts in Action, Prentice Hall

PREREQUISITIES: Teacher Recommendation

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### BIOLOGY (250) (250I)– Grade 10

The course content will include: the science of biology, cell structure and function, cellular respiration, cell growth and division, genetics, DNA and RNA, microorganisms and fungi, plants (a brief look), invertebrates, vertebrates (reptiles, fish and amphibians) and dissections. Also, we will cover issues involved in ecological science.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Prentice Hall Biology book, lab sheets, handouts

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### ACCELERATED BIOLOGY\* (251) – Grade 10

This course is intended for the 10<sup>th</sup> grade student who has an interest in the science areas in college or as a career. The topics studied are the same with extra emphasis on the writing of lab reports, papers, speeches, and journal reviews which are essential skills required in college classes.

PREREQUISITIES: At least 92% in Science 9, or At Least 83% in Accelerated Science or Teacher Recommendation

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Prentice Hall Biology book, lab sheets, handouts

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## SCIENCE 11/STEM (SC007) – Grade 11, 12

The course content will include: the science of biology, cell structure and function, cellular respiration, photosynthesis, cell growth and division. In addition, we will focus on test preparation and integrated project-based assessment. STEM is designed to empower students through critical thinking, collaboration, and innovation. The content is based on the acronym STEM and will rely on project based assessments that encompass science, technology, engineering and mathematics. Topics for the course include but are not limited to utilizing common objects, robotics, digital design/coding, designing solutions for local and world issues, application of solar panels, 3D printing, and preparing for future jobs that are based on STEM.

TEXTBOOK AND /OR SUPPLEMENTARY MATERIALS: lab sheets, handouts, online course material

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## CHEMISTRY w/Lab\* (270) – Grade 11

This course is for the academic 11th grade student. It will include the following subjects: matter, measurement, nomenclature, chemical interactions (quantitative-qualitative), heat, atomic and molecular structure and states of matter and gas laws. Emphasis is placed on developing a systematic process for problem solving and hands-on experiences. This class is partially weighted, and therefore, requires some work to be completed outside of classroom time.

PREREQUISITIES: At least a 65% in Accelerated Biology, 74% in Biology or Teacher Recommendation

TEXTBOOK: Introductory Chemistry; Zumdahl/DeCoste; 6th Edition

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## ACCELERATED CHEMISTRY w/Lab\*– (271) – Grade 11

This course is intended for the junior student who has an interest in the math or science areas. This course includes the following topics: matter, measurement, nomenclature, chemical interactions, heat, atomic and molecular structure, periodic law, and bonding, states of matter, gas laws and oxidation-reduction. The course is designed to go into greater detail and proceed at a faster pace. Problem solving, hands-on experience and scientific procedures are emphasized. Scheduling of this class involves a double lab period. This class is partially weighted and will require the student to spend time outside of class completing assignments.

PREREQUISITE: At least 92% in Biology or At Least 83% in Accelerated Biology or Teacher Recommendation

TEXTBOOK: Chemistry Zumdahl/Zumdahl 10<sup>th</sup> Edition

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if student pays the tuition fees this course may be taken for college credits from Mount Aloysius College

## SENIOR EARTH/ENVIRONMENT SCIENCE (SC001) – Grade 12

Senior earth and environmental science is specifically designed to provide a general science course with an emphasis on earth and environmental topics promoting a greater awareness and understanding of the interactions of people and their environment. The course will include three units. The earth resource unit includes basic ecology, forest resources, metallic and nonmetallic resources of Pennsylvania. Energy resource unit includes fossil fuels, alternative energy resources and nuclear chemistry. The environmental unit includes aquatic ecosystems, chemistry of water, water quality, climate change, acid rain, pollution and watersheds. Case studies will provide an opportunity to examine practical problems associated with current environmental issues.

TEXTBOOK: Environmental Science (LeBel)

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## PHYSICS\*\* (290) – Grade 11, 12

Physics is a course that deals with the fundamental principle that govern the behavior of our physical world. The goals are to indicate applications of physics principles in real-life situations, foster development of problem solving skills and to encourage individual time management. This course is fully weighted, and requires work to be completed outside of class time.

PREREQUISITE: Must have Algebra II credit **and** Teacher Recommendation

TEXTBOOK: College Physics, Serway & Faughn, 7<sup>th</sup> edition  
LENGTH OF COURSE: One Year  
CREDIT TO BE AWARDED: One Credit

### AP CHEMISTRY/Lab\*\* (281) – Grade 12

This course is designed for the academic senior who intends to pursue a science major in college or health related fields. This course is a continuation of first-year chemistry and will include the following topics: gas laws, colligative properties, acid/base theory, kinetics, equilibrium, qualitative analysis, electrochemistry and organic chemistry. The student will be introduced to various forms of chemical instrumentation, will plan and implement lab exercise, and participate in a class project. This course culminates with the AP Chemistry Exam which all students must take. Scheduling of this class involves a double lab period.

PREREQUISITE: At least 83% in Chemistry or at least 74% in Accelerated Chemistry and Teacher Recommendation

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Chemistry, Zumdahl/Zumdahl 10<sup>th</sup> edition

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if student pays the tuition fees this course may be taken for college credits from Mount Aloysius College

### ADVANCED BIOLOGY\* (260) – Grade 12

Advanced Biology is a course designed to cover the fundamental principles of biology, with an emphasis on laboratory and field techniques. Course topics include taxonomy, epidemiology, biotechnology, molecular biology, nutrition, and animal behavior. The writing of formal lab reports papers will be emphasized along with the reading of several science based novels. The use of live animals may be required in class. Students will be required to keep an ongoing notebook and may be evaluated with both a midterm and final exam.

PREREQUISITE: At least 74% in Chemistry or at least 65% in Accelerated Chemistry, and Teacher Recommendation

TEXTBOOK: McGraw Hill Biology, 9<sup>th</sup> edition, (Sylvia S. Mader)

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### ANATOMY\* (SC005) – Grade 11, 12

This course is for those students interested in pursuing science and fields. Anatomy and physiology is a discussion and laboratory based study of the human body. Topics studied will include cells, tissues, and the major body systems and how they are related and interconnected. This class is designed as a college preparatory class for majors in biology and the medical field. Projects will include dissection of a fetal pig as well as other preserved organs, writing a formal research paper, and medical career exploration.

PREREQUISITE: Completion of Biology with a B average or better. Completion of/and currently enrolled in Chemistry with Lab or Accelerated Chemistry.

TEXTBOOK/SUPPLEMENTARY MATERIAL: Marieb - Essentials of Human Anatomy & Physiology

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### ENVIRONMENTAL GEOLOGY (SC006) – Grade 12

Environmental Geology involves the relationship between geologic principles and human interaction. Basic foundation of geology topics include topographic maps, minerals and rocks, strata, plate tectonics, historical geology and paleontology. Earth processes and natural hazard topics include earthquakes, volcanoes, rivers, groundwater, and landslides. Resources and pollution topics will focus on topics including water resources, pollution, energy, soils, global climate change, land use planning. The course will include field work and a water quality monitoring program.

PREREQUISITE: ONE CREDIT BIOLOGY, ONE CREDIT CHEMISTRY, TEXTBOOK/SUPPLEMENTARY MATERIAL: PHYSICAL GEOLOGY LAB MANUAL, ENVIRONMENTAL SCIENCE

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

# **SOCIAL STUDIES**

## **World History (SS0011) (SS0011i) – Grade 9**

World history will focus on the development and impact of western civilization in the “Modern Age”. The focus will be on world history from 1450 AD to the present. Units will include Renaissance/Reformation, The Age of Absolutism, The Enlightenment, The French Revolution, Industrial Revolution, Global Age, World War I and the period between the wars, World War II and its aftermath, The Cold War and the rise of Communism, and present contemporary Global Issues. Students use such technological items as laptops, projectors, Smartboards to explore and learn the material.

TEXTBOOK: World History by Ellis and Esler. Prentice Hall Publishers, Pennsylvania Edition

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **College US History I\* (AD0002) – Grade 9, 10, 11, 12**

HIS 100 College Level Penn Highlands Course

This course is a college level United States history course which starts with early Native American Cultures and ends with the Reconstruction Period after the Civil War. Major topics include: early Native American cultures, the Age of Exploration, the Spanish American Empire, the founding of British colonies, life in the British colonies, the French and Indian War, the Revolutionary War, the formation of the United States Constitution and Government, the War of 1812, the Jacksonian Era, United States expansion into the west, the Civil War, and the Reconstruction Period. Special emphasis will be placed upon the geographical, economic, political, and social aspects that played a role in each of the historical topics listed above. The students will use technological items such as laptops, projectors, and smart boards to explore and learn the material. SPECIAL NOTE TO STUDENTS AND PARENTS OR GUARDIANS: Registration and payment to Penn Highlands College must be made under the requirements set forth by Penn Highlands College. Mount Union Area School District is not responsible for a student’s registration with Penn Highlands College or payment being rendered. Please contact the guidance office for how to contact Penn Highlands College. A student does not have to register at or take this course through Penn Highlands College and can simply take the course as a social studies credit at Mount Union Area High School.

TEXTBOOKS AND/OR SUPPLEMENTARY MATERIALS: America’s Story, Houghton Mifflin Co.; United States History, Prentice Hall

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*If student pays the tuition fees this course may be taken for 3 credits from Penn Highlands

## **U.S HISTORY I (SS0012) (SS0012i) – Grade 10**

This course is a general United States history course which starts with British colonization in North America and ends with the Revolutionary War. Major topics include: the founding of British colonies, life in the British colonies, the French and Indian War, the Revolutionary War, the Constitution, the early United States, War of 1812, Jacksonian Era, United States expansion into the west, and causes of the Civil War. Special emphasis will be placed upon the geographical, economic, political, and social aspects that played a role in each of the historical topics listed above. The students will use such technological items as laptops, projectors, and smart boards to explore and learn the material. This course is required for graduation and must be taken by sophomores.

TEXTBOOKS AND/OR SUPPLEMENTARY MATERIALS: America’s Story, Houghton Mifflin Co.; United States History, Prentice Hall

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **U.S. History II (SS0013) (SS0013i) – Grade 11**

This course starts with an overview of the Civil War and continues through World War II America. The course is a general U.S. history course which deals with domestic and foreign issues of this period. Current events as they relate to the specified areas will be mentioned and/or dealt with. Students will work with technological items such as laptops, projectors, and smartboards, to explore and learn the material. This course is required for graduation and must be taken by juniors.

TEXTBOOK: American People, New McDougal, Littell & Co. to United States History: Modern America, Prentice Hall.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### College Psychology\* (SS011) – Grade 11, 12

PSY100 General Psychology College Level Penn Highlands Course

This course is a general introduction to the scientific study of the brain, behavior, and mental processes of humans and animals, with emphasis on the goals of psychology: to describe, explain, predict, and control behavior. Students examine the substance of psychology such as biopsychology, sensation and perception, learning, memory, cognitive processes, affective behaviors, and mental illness through an examination of the theories, principles, and methods of research used in the field. Examples and applications enable the student to acquire the elements of critical thinking as adapted to the research environment. Students produce an APA formatted research paper. This course applies the fundamental principles of psychology as a natural science. Students explore current research through reading empirical research and write an APA formatted analytic research paper.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Psychology: An Introduction, Pearson Prentice Hall

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*If student pays the tuition fees this course may be taken for 3 credits from Penn Highlands

### AMERICAN GOVERNMENT/CIVICS (445) – Grade 12

This course will provide an introduction to the major ideas, institutions, and issues in American government and politics. The focus is on how the structure of our political system influences the practice of politics at the national level -- the ongoing struggles among competing groups and individuals for influence over government activities and public policy.

We will examine the principles underlying the constitutional framework of American government and will analyze the three branches (Congress, the Judiciary, and the Executive) while trying to understand the advantages and problems inherent in a system of "checks and balances."

We will also consider important extra-governmental actors, such as political parties, interest groups, and the media. In the final part of the course, we will look into important issues of public policy and study the major debates and divisions over where America is headed. Students will use laptops, smartboards, and projectors to learn the material.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: American Government-The Republic in Action Harcourt, *Brace and Jovanovich* to American Government, Prentice Hall.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### PSYCHOLOGY (SS009) – Grade 12

This an elective course that is geared towards but not limited to college bound students. The topics that will be covered in this course are: an introduction to psychology and the history of psychology, psychobiology, how people learn, memory and thought, motivation and emotion, states of consciousness, motivation and emotion, mental disorders, personality, and social psychology. The students will use such technological items as laptops, projectors, and smart boards to explore and learn the material.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Psychology: An Introduction, Pearson Prentice Hall

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **FOREIGN LANGUAGE**

### SPANISH I (180) – Grade 9, 10, 11, 12

This course is an academic elective designed to partially meet the 2-year language requirement of liberal arts colleges and prepare students for future language courses. During this course, students will learn the fundamentals of the Spanish language. Initial focus will be on the alphabet, numbers, greetings, and frequently used phrases. Throughout the entire course, students learn vocabulary from a variety of themes as well as topics in Spanish

grammar, and cultural aspects. A grade of C- or better is required to advance to the next level Spanish course. Students unable to maintain a passing grade near midyear should participate in a parent-teacher conference to determine the benefits of continuing in the course.

PREREQUISITE: Enrollment in Academic English or English grade >88%

TEXTBOOK: Realidades 1, Prentice Hall

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### SPANISH II (181) – Grade 10, 11, 12

The second year of Spanish will continue building on the fundamentals learned during the first year with a brief review of the present and preterit verb tenses. New vocabulary will focus on different environments and situations. More emphasis will be placed on reading aloud, reading comprehension and writing. Students are encouraged to maintain and review their Spanish 1 notes prior to the second year. Along with review, students will learn the imperfect and future verb tenses.

TEXTBOOK: Realidades 2, Prentice Hall

LENGTH OF COURSE: One Year

PREREQUISITE: Spanish I - Teacher Approval Required (grade  $\geq$  74% C-)

CREDIT TO BE AWARDED: One Credit

### SPANISH III\*/IV\* (182/183) - Grade 11, 12

During the third and fourth years of Spanish, students will continue learning new vocabulary while reviewing and expanding upon grammar from the previous years, including verb tenses and conjugations. Along with learning more vocabulary and grammar, students will apply the language more vigorously through extensive reading, writing, listening and speaking (much more than in previous years).

TEXTBOOK: Realidades 3, Prentice Hall

LENGTH OF COURSE: One Year

PREREQUISITE: Spanish II - Teacher Approval Required

CREDIT TO BE AWARDED: One Credit

## **AGRICULTURAL SCIENCES DEPARTMENT**

**AGRICULTURE COMPLETERS AND CONCENTRATORS WILL TAKE THE NOCTI TEST IN GRADE 12  
PROGRAM STARTS IN THE 9<sup>TH</sup> GRADE**

9 <sup>th</sup> (hours)	10 <sup>th</sup> (hours)	11 <sup>th</sup> (hours)	12 <sup>th</sup> (hours)
Introduction to Ag Science (129)	Food Science (129)	Wildlife Management(129)	Farm Business Management (129)
Animal Science I (129)	Animal Science II (129)	Vet Science (129)	FFA Leadership (129)
Horticulture I (129)	Horticulture II (129)	Small Gas Engines (129)	Ag Mechanics II (129)
Intro to Wood Technology (129)	Ag Mechanics I (129)	Cabinet Making (129)	Advanced Wood Technology (129)

Supervised Agriculture Experience (SAE) I- IV – only offered upon teacher approval

### ANIMAL SCIENCE I (681) – Grade 9, 10, 11

This course will explore each species of animal livestock and the importance of livestock today. Instruction will pertain to in depth study of the various species of large animal livestock. As well as animal health, nutrition, reproduction, significant breeds, career opportunities, and veterinary technologies. Students will study each of the animal agriculture sectors across the United States and identify areas where specific animal industries are concentrated. Evaluation of livestock for breeding and marketing purposes as well as marketing strategies will also be covered. In addition, students will explore connections between the Animal Science lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit



## HORTICULTURE I (AG002) – Grade 9, 10, 11

Students in the Horticulture class will explore all areas of horticulture including greenhouse production and floral design. Students will have the opportunity to work in the school greenhouse, work outside on the school grounds, and design projects for the Pennsylvania Farm Show. Horticulture related topic as well as participate in designing and building a Horticulture exhibit for the PA Farm Show. In addition, students will explore connections between the Horticulture lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## INTRODUCTION TO AGRICULTURE SCIENCES (AG0015) Grade 9, 10

The Introduction to Agricultural Sciences course is designed to teach essential concepts and understanding related to plant and animal life including biotechnology, the conservation of natural resources, and the impact of agriculture and natural resource utilization on the environment. Basic personal and community leadership and safety, and agricultural mechanical technology are included as a part of the instructional program. Each student is expected to design and participate in a supervised agricultural experience. Public speaking and other basic leadership skills will also be covered. In addition, students will explore connections between the Intro to Ag Sciences lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## INTRO TO WOOD (IA009) – Grade 9, 10, 11, 12

Students enrolled in this course will learn the process of project design, materials selection, materials purchasing, wood jointery, and finishing. A variety of production methods using general wood working tools, machines, processes and the related safety precautions. will be utilized to produce an individual student project. In addition, students will explore connections between the Intro to Wood Technology lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

TEXTBOOKS: Woods Technology and Processing, Fairer

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

CLASS LIMIT: 15

## AGRICULTURE MECHANICS I (AG0016) - Grade 10, 11, 12

This laboratory course is designed to provide students with introductory level experiences in selected major areas of agricultural mechanics technology. It will prepare students for careers related to the construction, operation, and maintenance of equipment used by the agriculture industry. Topics will include safety, power tools, electrical systems, plumbing, concrete, and basic construction. In addition, students will explore connections between the Agriculture Mechanics lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

CLASS LIMIT: 15

LENGTH OF COURSE: One year

CREDIT TO BE AWARDED: One Credit

## ANIMAL SCIENCE II (AG004) - Grade 10, 11, 12

This course will explore all aspects of animal agriculture from animal husbandry techniques and genetics to anatomy/physiology, feeding/nutrition, marketing, and the slaughtering or other uses of livestock. Feed identification and disease control will also be explored. It will also provide insight into the world of fish and wildlife as related to agriculture. Hands -on activities including dissections will be a part of this course. In addition, students will explore connections between the Animal Science lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

PREREQUISITE: Animal Science I and Teacher Recommendation

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## CABINET MAKING (IA010) – Grade 10, 11, 12

An instructional program that prepares individuals to apply technical knowledge and skills in the production of a cabinet product to include casework, web frames, raised panel doors, moldings, drawers, and a variety of jointing methods. Instruction includes training in cutting, shaping, assembling parts, using hand tools, woodworking machines and installing hardware. Instruction also includes planning layouts, blueprint reading, drafting and pattern layout, and knowledge of practical uses and identification of various kinds of woods. In addition, students will explore connections between the Cabinet Making lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

PREREQUISITE: Intro to Production

TEXTBOOK: Modern Cabinetmaking, Umstattd/Davis

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

CLASS LIMIT: 15

## FOOD SCIENCE (AG0013) – Grade 10, 11, 12

Food Science students will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the food science and safety industry, allowing students to build content knowledge and technical skills. Students will investigate areas of food science including food safety, food chemistry, food processing, food product development, and marketing. Students will also explore basic food science skills, nutrition concepts, management skills, preparation techniques, foreign foods, and career options. Emphasis will be placed on exploration of food from the farm field to the processing plant to the kitchen table. Preference will be given to students who have been previously enrolled in Agriculture Education courses. In addition, students will explore connections between the Food Science lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

CLASS LIMIT: 15

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One credit

## HORTICULTURE II (AG003) – Grade 10, 11, 12

This course covers instruction that expands scientific knowledge and skills to include more advanced techniques and communication skills needed in the horticulture industry. Topics include greenhouse plant production and management, bedding plant production. Looking into greenhouse design as well as watering systems and light effects. Students will also learn basic landscape design and advanced floral design. In addition, students will explore connections between the Horticulture lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

PREREQUISITE: Horticulture I

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One credit

## SMALL GAS ENGINES (AG0016) - Grade 10, 11, 12

This course offers an intensive study of the operation, maintenance, and repair of small gasoline engines. Instructional topics include principles of operation of internal combustion engines, repair and service procedures, and disassembly, overhaul, and reassembly. Instruction may also include the operation of two-cycle and four-cycle engines commonly found on lawn mowers, garden tractors, snow blowers, rotary tillers, chainsaws, and other equipment. Additionally, one unit of FFA and basic leadership principles will be taught. In addition, students will explore connections between the Small Gas Engines lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

CLASS LIMIT: 15

LENGTH OF COURSE: One year

CREDIT TO BE AWARDED: One Credit

## VETERINARY SCIENCE (AG0014)– Grade 10,11,12

This course covers topics relating to anatomy and physiology of livestock and companion animals. Students will learn topics such as types of diseases, transmission, symptoms and treatments. They will also practice basic clinical procedures such as administering medicine, bandaging and suturing wounds. Students will learn the basics of a physical exam and the signs of an ill animal. Students will have the opportunity to use equipment used in the lab/clinic. In addition, students will explore connections between the Vet Science lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

PREREQUISITE: Animal Science 1 or teacher recommendation

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## WILDLIFE MANAGEMENT (AG0012) – Grade 10, 11, 12

This course covers topics relating to the history of wildlife management in Pennsylvania, laws protecting wildlife and studies in identification, propagation and habitats of fish, birds, reptiles and mammals in Pennsylvania. Student skills in observation, identification of Wildlife will be developed. In addition, students will explore connections between the Wildlife Management lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## ADVANCED WOOD TECHNOLOGY (IA011) - Grade 11, 12

This advanced Industrial technology course is more individualized and specific in scope. At the level, an attempt will be made to meet individual student needs. It encompasses enrichment, occupational awareness, and technical literacy for all students. Arts course is more individualized and specific in scope. At this level, an attempt will be made to meet individual student needs. It encompasses enrichment, occupational awareness, and technical literacy for all students and may provide employable skills for some students. In addition, students will explore connections between the Advanced Wood Technology lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

PREREQUISITE: Cabinet Making

TEXTBOOK: Various References As Needed

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

CLASS LIMIT: 10

## ART

### BASIC ART (612) – Grade 9, 10, 11, 12

This course explores 2 and 3 dimensional art through the use of a variety of media and techniques. The basic elements of composition and the principles of design will be studied. Students will become acquainted with the works of famous artists. A desire to learn more about Art and experience many art forms are pluses for this course but strong drawing skills are not essential.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### DRAWING I (615) – Grade 9, 10, 11, 12

Drawing I is a studio oriented course that teaches students a variety of techniques and approaches through observation skills. Emphasis is also placed on producing art work resulting from the influences of society, cultures, and styles. Through an atmosphere of exploration and visual problem solving of the elements of art and principles of design, the students will produce a collection of creative artwork.

PREREQUISITE: Basic Art

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## CRAFTS (614) – Grade 10, 11, 12

The crafts class is a studio course which explores a wide range of traditional crafts. It is designed to show how man has used arts and crafts as a form of expression and necessity. Crafts will be presented in their historical content and the role of the craftsman in their specific culture. Students will have the opportunity to develop their artistic skills by creating individually unique and aesthetically pleasing usable items.

PREREQUISITE: Basic Art

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## PAINTING I (625) – Grade 10, 11, 12

This course is a studio-oriented course which introduces students to the properties of color, various techniques and processes and the expression of ideas and emotions in one's self and others through the media of painting.

PREREQUISITE: Basic Art and Drawing I

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## DRAWING II (616) and PAINTING II (634) – Grade 10, 11, 12

This course is a studio-oriented course which builds upon the fundamentals and expands on experiences and processes learned in the first year course. This second year course allows the advanced student room for exploration, creative choices, and development of personal techniques. Various artists, styles of art, art appreciation, and artwork displays are studied.

PREREQUISITE: Basic Art Drawing I, or Painting, and Instructor's Permission

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## CERAMICS I (624) - Grade 11, 12

This studio course is designed to acquaint the student with the media of clay. Students will develop their art skills by creating various ceramic forms using hand building techniques, surface decoration and glazes. The course will also explore 3 dimensional forms through the development of sculptures using a variety of media and techniques. This is a course for those who enjoy working three dimensionally and like a challenge.

PREREQUISITE: Basic Art (no drawing required)

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## CERAMICS II (623) – Grade 12

This course continues the study of hand built form and design in ceramics. It introduces and allows for the development of wheel thrown pottery techniques. Glaze mixing and firing techniques will be explored. Students will have the opportunity for independent study in the exciting media of clay.

PREREQUISITE: Ceramics I and Instructor's Permission

LENGTH OF COURSE: One Year

CREDIT AWARDED: One Credit

## Art History (ART001) – Grade 10, 11, 12

Art Through the Ages is an Art History course that will explore art from the early pre-historic period through our current contemporary art. Artists and their styles and will be discussed. The course will also allow students the opportunity to participate in hands on art activities using techniques unique to a specific style or time period. In addition, technology will be an asset in leading students through virtual tours of museums like the Museum of Modern Art. Several art websites will also be investigated to further strengthen their art history knowledge. Possible field trips to local art museums may be a part of the Art Through the Ages class experience.

LENGTH OF COURSE: One Year

CREDIT AWARDED: One Credit

# **BUSINESS**

**PROGRAM OF STUDY-ACCOUNTING AND ADMINISTRATIVE ASSISTANT COMPLETERS AND CONCENTRATORS WILL TAKE THE  
NOCTI TEST IN GRADE 12  
PROGRAM STARTS IN 11<sup>TH</sup> GRADE**

## **COMPUTER APPLICATIONS (560) (560I) – Grade 9, 10, 11, 12**

During the first semester, students will strengthen and develop skills in Microsoft Word to format a variety of professional documents, including business letters, memos, reports, tables, and newsletters. Report formatting will be taught using MLA style as required by all classes.

During the second semester, students will receive an overview of Microsoft Excel, Access, and Power Point. Students interested in learning more about any of these advanced software programs are then encouraged to take the full-year course.

SOFTWARE: Microsoft Office

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **College Microcomputer Applications\* (AD0001) – Grade 9, 10, 11, 12**

College Level Penn Highlands Course

This hands-on course introduces the student to the more popular microcomputer software packages available including Windows, word processing, spreadsheets, and presentations. This course provides students with a working knowledge of these software packages to accomplish the more common task. The Microsoft Office suite, MS Word, MS Excel and MS PowerPoint is used.

PREREQUISITES:

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if student pays the tuition fees this course may be taken for 3 credits from Penn Highlands

## **ACCOUNTING I (520) – Grade 10, 11, 12**

Accounting I will cover the accounting cycle for a service business that is organized as a sole proprietorship and also a merchandising business that is organized as a partnership. This course emphasizes basic accounting skills and business procedures, while covering fundamental accounting concepts. This course helps build a foundation for students interested in pursuing a career in a business-related field or for students who would like to own a business one day.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Century 21 Accounting, South-Western Publishing Co.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **MICROSOFT WORD (563) – Grade 10, 11, 12**

With this course, students will develop and apply their skills in Microsoft Word to format a variety of professional documents. Students will learn to arrange the most often used documents for personal, college, or business use (such as reports, newsletters, business letters, etc.) Upon successful completion of this course, students will have usable skills and be eligible to take the MOUS (Microsoft Office User Specialist) certification test for Microsoft Word.

SOFTWARE: Microsoft Office

PREREQUISITE: A grade of at least a "C" in Computer Applications and the recommendation of the Computer Applications teacher.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **MICROSOFT EXCEL (583) – Grade 10, 11, 12**

This course is an excellent course for both college-bound students (especially in the math and science fields) and also for business students who will benefit from learning to use this spreadsheet program. Students will learn how to enter data, process information, and display results using Microsoft Excel software. Students will format text; use functions and formulas; create charts, graphs and tables and learn to do "What If" statements. Students will also learn to create organizational charts and diagrams and will apply skills to real-life examples and

situations. Upon successful completion of this course, students will have usable skills and be eligible to take the MOUS (Microsoft Office User Specialist) certification test for Microsoft Excel.

SOFTWARE: Microsoft Excel

PREREQUISITE: A grade of at least a "C" in Computer Applications and the recommendation of the Computer Applications teacher

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### COLLEGE INTRO TO BUSINESS (AD0005) – Grade 10, 11, 12

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

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if student pays the tuition fees this course may be taken for 3 credits from Penn Highlands

### ACCOUNTING II (530) – Grade 11, 12

Accounting II is a continuation of Accounting I and advances the foundation built for students interested in a business-related field. The accounting cycle for a corporation is studied, while also reinforcing the concepts taught in Accounting I. Specific areas covered include: payroll, estimating inventory, uncollectible accounts, depreciation, dividends, and financial analysis for a corporation. Also, this course helps prepare qualified students to take the Accounting NOCTI exam, which is a test for students studying career and technical programs.

PREREQUISITE: A grade of at least a "C" in Accounting I.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Century 21 Accounting, South-Western Publishing Co.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### COLLEGE ACCOUNTING PRINCIPLES (PH0030) – Grade 11, 12

#### ACC 150 College Level Penn Highlands Course

This is an introductory accounting course designed to introduce underlying concepts and Generally Accepted Accounting Principles (GAAP) used in determining revenue recognition, expense recognition, asset valuation, and reporting of liabilities. Double-entry accounting is introduced and applied to service companies. The entire accounting cycle for a service business operating as a sole proprietorship will be presented – from the point of original entry through the adjustment process, financial statement preparation, and post-closing trial balance preparation. Students will first be exposed to a manual accounting system, then QuickBooks Online will be utilized to expose students to computerized accounting systems.

PREREQUISITE: A grade of at least a "C" in Accounting I.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Wild, J. J., Shaw, K. W., & Chiappetta, B. (2017). *Fundamental Accounting Principles* (23<sup>rd</sup> ed.): New York, NY: McGraw-Hill/Irwin.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if student pays the tuition fees this course may be taken for 3 credits from Penn Highlands

### ADVANCED COMPUTER APPLICATIONS (BI001) – Grade 10, 11, 12

This course is designed to give both the college-bound student and also the business student a firm foundation of skills and knowledge using a variety of different computer programs. Emphasis will be on strengthening the use and comprehension of Excel, PowerPoint, Publisher, and Access. Students will also learn better Internet search techniques and will improve upon their research skills when using the Internet for school projects and/or work study projects. Students will learn to apply the skills learned in various programs through the use of hands-on projects including presentations, creation of brochures, research reports, and use of a variety of different programs offered on the Internet. Students should leave this course with a better understanding of the various

computer programs offered and should be able to create projects that will be beneficial to them at both the college and work levels.

PREREQUISITES: A grade of at least a “C” in Computer Applications—it is also recommended that students complete at least one of the following courses: Word, Excel or Access

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One

### BUSINES MATH (570)– Grade 11, 12

Business Mathematics is a course that covers basic mathematical concepts and applies them to common personal and business situations, such as banking, payroll, and taxes. Students will learn to use mathematics as a tool and develop skills through practical activities and applications. These practices will help students prepare for real world events and use mathematics in their personal and business lives.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Mathematics for Business

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### CAREER EXPLORATION (585) (585I) – Grade 10, 11, 12

All students are required to pass this course prior to graduation. The purpose of this course is to prepare students for job acquisition and career readiness. This will be accomplished in the following ways:

- Career Exploration – throughout the course students will be exposed to a variety of career exploration tools including self-assessments, career research activities, mock interviews, and guest speakers. In addition, students will explore the world of entrepreneurship by participating in an Entrepreneurship Unit. Throughout this unit, students work in groups to develop an idea for a business, write a business plan including financial projections, and present their business idea to judges.
- Community Service – each student is required to complete 10 hours of community service while they are enrolled in the course. The service must be completed outside of school hours. The purpose of the community service requirement is to build awareness of the needs of the community as well as to develop transferable skills.
- Portfolio – each student is required to submit a personal portfolio at the end of the course. The portfolio is designed to be a collection of the student’s work during their high school career. It should include items completed as class work, participation in clubs or extracurricular activities, part-time jobs, community service, etc.
- Employment Documents – each student will be required to prepare the following documents to be used in the employment application process: resume; application; cover letter; list of references; letters of reference; thank you letters; and request letters.
- Personal Finance Initiatives – during the course the students will also be exposed to various personal finance objectives.

TEXTBOOK: Discovering Your Career

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### PERSONAL FINANCE (584) – Grade 11, 12

Personal Finance is designed to give students a basic understanding of a variety of personal finance issues. Some of the areas covered include managing and balancing a checkbook, planning a monthly budget of income and expenses, planning for major purchases, and investing money for the long-term. This course will help students gain an understanding of financial events that will take place throughout their lifetime. It will also help students prepare for these financial events and make informed decisions.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### COLLEGE PERSONAL CONSUMER FINANCE (PH0031) – Grade 11, 12

#### BUS 130 College Level Penn Highlands Course

The course is designed to introduce the student to the basic principles of personal finance, with an emphasis on effective money management. Students will construct a financial plan, using the following concepts: personal

financial statements, time value of money; tax planning, banking and interest rates, credit management, personal loans, major purchases and insurances, investment strategies, and retirement/estate planning.

PREREQUISITE: A grade of at least a "C" in Personal Finance or teacher approval required

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Keown, Authur J. Personal Finance – Turning Money into Wealth, 8<sup>th</sup> edition. Boston, MA: Pearson, 2019.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if student pays the tuition fees this course may be taken for 3 credits from Penn Highlands

### MICROSOFT ACCESS/MARKETING MANAGEMENT (582) – Grade 11, 12

During the first semester, students will receive step-by-step instructions for using Microsoft Access, a database management software program. Through a variety of hands-on exercises and applications, students will be provided with an in-demand skill. Organizations from small businesses to the federal government use databases to manage and report on vast amounts of data. Learning to use a database management program will be especially useful to college bound students and for students entering the workforce.

During the second semester, students will further apply skills learned in Access as well as entrepreneurialism skills to prepare for potential career paths in market research study. Students will apply skills learned in Microsoft Word and Access to develop marketing research reports, marketing research surveys, marketing research questionnaires, and will then use this information to develop and query databases that will be useful to them in their personal lives and also in their future careers. In addition, students will learn to use information gathered to determine effective ways to promote, price, and package goods. Students will be expected to use their market research to create charts, graphs, and presentations within the classroom and will be expected to analyze and interpret data collected.

Upon successful completion of this course, students will be prepared to take the MOUS (Microsoft Office User Specialist) certification test for Microsoft Access.

SOFTWARE: Microsoft Office Access

PREREQUISITE: A grade of at least a "B" in Computer Applications and the recommendation of the Computer Applications teacher

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### BUSINESS LAW/ECONOMICS (510) – Grade 12

Law is a force in everyone's life and this course will help students develop an awareness of one's legal rights and obligations as a productive member of society. Students are introduced to the study of law through a brief look at how law developed; the legal system in the United States; the function, organization, and work of the federal and state court systems; civil and criminal law, and the rights and responsibilities of young people, and basic contract law.

This course will provide students with an understanding of how economics plays a part in their everyday lives. A course in economics will help students develop an understanding of the principles that underlie the U.S. Free Enterprise System; will help students understand the operations of the U.S. economy; and will develop an appreciation of the benefits of living in a nation that enjoys a free enterprise system. This course should be of interest to all students because of their everyday contact with economics, but especially those students who plan to attend a college or business school.

This course will be offered as an online course only and will be self-paced by the student, with clear objectives and deadlines given by the participating instructor.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Economics Today and Tomorrow, Glencoe McGraw-Hill, Business Law Principles and Practices 2nd ed., Houghton Mifflin

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### OFFICE PROCEDURES & TECHNOLOGY (590) – Grade 12

This course is designed to give the student competence and a firm foundation of skills and knowledge to enter the work force. Emphasis will be on strengthening computer skills, including Word, Excel and Publisher and on preparing students for skills needed in the workplace. Interpersonal skills and marketable skills required in the world of work today will also be developed. Students will be prepared to work in an office or to combine work and study as they further their education. This course will give a background in basic office functions, procedures, and technology that will be invaluable in meeting responsibilities on the job. Also, this course helps prepare



qualified students to take the Administrative NOCTI exam, which is a test for students studying career and technical programs.

PREREQUISITE: Computer Applications I, Word, and Excel or Access

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### STUDENT BUSINESS CENTER (591) – Grade 12

Students will work one-on-one with assigned teachers to provide secretarial services such as typing, keying data, duplicating, collating, and stapling tests, worksheets, and other papers needed by the participating teacher. Hands-on training in various school offices may also be included, with an emphasis on work and employability skills including mail distribution, proper phone techniques, handling outside guests and phone lines, form preparation, etc. Daily work logs will be filled out by the student and turned in to the supervising teacher.

Students will learn to prioritize and manage potentially large volumes of work, how to get along with various kinds of supervisors, and how to meet deadlines. Student must currently be taking Office Procedures (or the online equivalent) or must have approval from the supervising teacher if not enrolled in Office Procedures.

PREREQUISITE: Students must either be a completer in a business program (administrative assistant or accounting) or must be enrolled in at least two business courses for that school year. Approval must be received from the Office Procedures teacher after student completes job application/interview.

NOTE: Enrollment is limited for each class period. Priority will be given to those students who are seniors and who are also completers in the business program. Underclassmen or non-completers will only be considered for this course if there are zero completers available or with prior approval from Office Procedures teacher.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### VISUAL BASIC\* (596) – Grade 10, 11, 12

This is an introduction to computer programming and computer application design using Microsoft Visual Basic programming language. This class involves complex problem solving using computer programming concepts standard to all programming languages.

PREREQUISITE: Algebra II (>90%) and/or instructor recommendation.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **FAMILY AND CONSUMER SCIENCES DEPARTMENT**

### FAMILY AND CONSUMER SCIENCE (643) – Grade 9, 10, 11, 12

The mission of the Family and Consumer Sciences Department is to empower students with the knowledge and skills to manage with reason and creativity the personal, family and community challenges across the lifespan of living and working in a global society. Are you interested in cooking, baking, sewing, interior design, and/ or human development? This course has something for everyone. Some unit options include hand sewing, machine sewing, knitting, crocheting, cross-stitching, fashion design, cooking, baking, nutrition, pregnancy/labor, family planning, and interior design. Unit options range from individual projects to collaborative assignments with group members.

This course may be offered the same periods as FCS II.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

LIMIT: 15 students per class period

### FAMILY AND CONSUMER SCIENCE II (643A) – Grade 10, 11, 12

Enjoyed FCS I? Want to continue with project-based learning and goal setting where you choose what area you want to follow in FCS? This course offers the same opportunities as FCS I, but you may focus more in depth on unit(s) that you completed in FCS I that interested you. This course may be offered the same periods as FCS I.

PREREQUISITE: FCS I  
LENGTH OF COURSE: One Year  
CREDIT TO BE AWARDED: One Credit  
LIMIT: 15 students per class period.

### FOODS AND NUTRITION (CS0002)– Grade 10, 11, 12

Are you interested in cooking, baking, practicing your kitchen skills, or learning how to eat a more nutritious diet? This course is designed as an introduction to foods and nutrition information with an emphasis on cooperative educational experiences in the foods laboratory. Students of all aptitudes will find the topics included in this course necessary to work safely in the kitchen, improve food preparation skills, practice critical decision making, explore nutrition choices, apply basic science principles to food preparation, and discover opportunities in the food service industry. Emphasis is placed on working skillfully and efficiently in the kitchen, preparing taste-tempting, nutritious foods, and serving them creatively. “Hands-on” activities are varied to make the course extremely practical as well as academic. Students will benefit from the materials, class discussions, guest speakers, and laboratory activities.

PREREQUISITE: FCS I  
LENGTH OF COURSE: One Year  
CREDIT TO BE AWARDED: One Credit  
LIMIT: 15 students

## HEALTH/PHYSICAL EDUCATION DEPARTMENT

### HEALTH (904) – Grade 9

This course will develop a philosophy on emotional health, family and social health, human sexuality and sexually transmitted diseases, alcohol, tobacco and drugs, mental illness suicide, first aid, nutrition, fitness and anatomy.

TEXTBOOK: Glencoe Health.

LENGTH OF COURSE: One year-Monday, Wednesday, Friday alternating with Study Hall Tuesday, Thursday

CREDIT TO BE AWARDED: One-Half Credit

### RECREATION/FITNESS (950)-Boys (950G)-Girls – Grade 9, 10, 11, 12

RECREATION: This class will promote the physical, social, and emotional development of each student through planned activities. A wide variety of offerings include: basketball, flicker football, softball, bowling, table tennis, racquet sports, shuffle board, golf, jogging, volleyball, gator ball, angle ball, and archery.

FITNESS: This class will promote the physical, social, and emotional development of each student through planned activities. The following will be presented: fitness testing, weight training, aerobics, fitness walking, individual fitness programs and diet and nutrition.

LENGTH OF COURSE: One Year  
CREDIT TO BE AWARDED: One Credit

## MUSIC DEPARTMENT

### SENIOR HIGH CHORUS (830) (831) w/band– Grade 9, 10, 11, 12

Chorus is an elective course offered to all students who pass **audition** procedure. During class time students will learn to sing to the best of their ability. An emphasis is placed on breath control, intonation, posture, pronunciation, and musicality. Students will be taught the solfege techniques (do-re-me intervals) created by Kodaly which will aid their ability to sight-read all music. A grade is given to students based on all class work (written/unwritten), attitude, participation and vocal improvement. Students can also audition for solos, duets or for small ensembles.

LENGTH OF COURSE: One Year  
CREDIT TO BE AWARDED: One Credit or .50 credit with band

## SELECT VOCAL GROUP (832) – Grade 9, 10, 11, 12

Student must be pre-approved by the instructor and complete an **audition** to enter this small select group. A wide variety of music styles will be used as well as foreign languages. Rehearsal dates will be arranged after the group has been selected. Approval by audition.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## JAZZ BAND (833) – Grade 9, 10, 11, 12

Select group of students: trumpets, saxophone, trombone, drums, bass guitar, guitar and piano. Students will audition for placement the spring before class begins. This is a graded course. Students will be evaluated on their class participation and attendance during school day and after-school public performances. Students enrolled in the senior high band program are given preference for seats in this course. The director reserves the right to limit participation in any or all instrument sections to those that are enrolled Senior High Band (course numbers 840 or 841-3).

PREREQUISITE: One year of band experience, director's approval and must have musical experience.

***In the event of a missed concert, students must complete a make-up assignment of playing selections into a recording device for grading. If they fail to do so, they will receive a ZERO grade for that assignment.***

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## CONCERT BAND (MU002) (MU002A) w/chorus – Grade 9, 10, 11, 12

Students in this course will continue to develop the skills necessary for individual and large ensemble performances. The course is devoted to learning symphonic band music. Performances include a fall, a winter and a spring concert. There are also several band festivals for students to audition for including District Band (Jan./Feb.) and County Band Festival (Feb or March).

Band members are required to provide their own instruments, book and accessories; however, the Mount Union Area School District does provide the larger or more expensive instruments in order to enhance and expand the Band's instrumentation. Students are encouraged to take part in the programs extra offerings of Football Pep Band, Competition Marching Band, Indoor Percussion, Indoor Color guard, and Indoor Majorettes. Students participating in those activities will receive the credit of **(2) lessons**.

PREREQUISITE: Jr. High Band or Director's Permission. Must attend ALL rehearsals. Chair Audition. **Six Private Lessons per marking period with Director. (Instrumental Instruction)**

Grading is based upon attendance at lessons, participation in-class, performing at the scheduled events. ***In the event of a missed concert, students must complete a make-up assignment of playing selections into a recording device for grading. If they fail to do so, they will receive a ZERO grade for that assignment.***

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit or .50 with chorus

## CONCERT & MARCHING BAND (MU003) (MU003A) w/chorus – Grade 9, 10, 11, 12

Students in this course will continue to develop the skills necessary for individual and large ensemble performances. The course is devoted to learning symphonic band music. Performances include a fall, a winter and a spring concert. There are also several band festivals for students to audition for including District Band (Jan./Feb.) and County Band Festival (Feb or March).

Band members are required to provide their own instruments, book and accessories; however, the Mount Union Area School District does provide the larger or more expensive instruments in order to enhance and expand the Band's instrumentation. Students are encouraged to take part in the programs extra offerings of Football Pep Band, Competition Marching Band, Indoor Percussion, Indoor Color guard, and Indoor Majorettes. Students participating in those activities will receive the credit of **(2) lessons**.

PREREQUISITE: Jr. High Band or Director's Permission. Must attend ALL rehearsals. Chair Audition. **Six Private Lessons per marking period with Director. (Instrumental Instruction)**

Grading is based upon attendance at lessons, participation in-class, performing at the scheduled events. ***In the event of a missed concert, students must complete a make-up assignment of playing selections into a recording device for grading. If they fail to do so, they will receive a ZERO grade for that assignment.***

LENGTH OF COURSE: One Year  
CREDIT TO BE AWARDED: .One Credit or .50 credit with chorus

## PERCUSSION ENSEMBLE (MU004)

This course will meet daily for 4 marking periods. In this course each student will be required to learn the basics of the percussion family, such as Snare Drum, Tympani, keyboards, et al. In addition, students can request a concentration for which to master for each semester.

The ensemble shall exist in two capacities; Concert Percussion (September – December) and Competition Percussion (January – May).

After school rehearsals may be scheduled to accommodate every student interested. **No previous percussion experience is required**; however a personal **interview** will be required of every member.

Pre-requisite: FALL MARCHING BAND, SR. HIGH CONCERT BAND.

PLEASE ASK THE INSTRUCTOR (Mr. Kane) if you are unsure about your eligibility.

## **MISCELLANEOUS**

### LIBRARY SCIENCE (005) – Grade 10, 11, 12

Students will assist in the library three, four, or five days per week. They will be trained to provide library services to the faculty, staff, and students. These services include computer circulation of materials, assistance in locating materials, ACCESS PA, delivery service of IMS/IU materials, clerical work, computer aid and general duties.

REQUIREMENTS: Recommendation by librarian required

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

CLASS LIMIT: 2

## **Academy Customized Learning**

The MUASD ACL program is available to our students as a means for credit recovery credit acceleration, courses not offered in our regular classrooms, college courses, and to resolve scheduling conflicts. An online course must be a course required to meet graduation requirements and career related.

Requirements:

- Recommended by guidance counselor, teacher, or administrator
- Obtain necessary signatures to complete enrollment request process
- Return signed Course Contract
- Maintain passing grades in both online and classroom courses
- Follow all rules in student handbook and ACL classroom
- Complete all test in the ACL lab
- Students are responsible for time extension cost if need to finish a course

Online course catalog links:

1. The American Academy: <https://www.theamericanacademy.com/courses>
2. Apex Learning: <https://apexlearning.com/digital-curriculum/courses/catalog>
3. Edgenuity: <https://www.edgenuity.com/online-courses/>
4. Educere: <https://www.educere.net/coursefinder.asp>
5. Odysseyware: <https://www.odysseyware.com/course-catalog>
6. Odysseyware Academy: <https://www.odysseywareacademy.com/partners/course-catalog>
7. Edmentum: <http://edmentum.com/course-catalog>

## **Co-Enrollment**

GRADE 11, 12

Co-enrollment courses are credit-bearing courses that a high school student takes to earn college credit and simultaneously meet high school graduation requirements. The courses must be offered by an accredited college or university. Students may take courses at Juniata College, Mount Aloysius-In Class, Clarion-Online or Penn Highlands-Classess at MU and online. Cost of course, books, transportation is paid by student.

PREREQUISITE: Excellent academic standing, teacher recommendation and administrator approval. Each college has specific entrance requirements; GPA, SAT Scores & specific entrance test scores.

[www.juniata.edu](http://www.juniata.edu) – Listing of courses for the fall semester will be available on line March. Click on “Academics” then “Courses”, and “Time of Day”

Please complete - “Juniata College Non-Degree Student Information Form” or other college applications.

Mount Aloysius Credit - AP English, AP Calculus, AP Chemistry

Penn Highlands Community College Classes offered at Mount Union

## **CAREER AND TECHNOLOGY EDUCATION**

The Huntingdon County Career and Technology Center offers a variety of courses to qualifying students. These courses are offered to students in grades 10 through 12. This is a one-half day program - A.M. Transportation is provided by the Mount Union Area School District.

Students applying for admission to attend the CTC - *Please complete the “Application for Admission to HCCTC”.*

Programs at the Huntingdon County Career & Technology Center provide students the opportunity to acquire some type of; industry certification, certificate, industry credential or license. All programs have articulation agreements with colleges. Students completing their program at a proficient level and pass end of program testing can earn college credits.

### **Auto Mechanics AM (972)**

The Automotive Mechanics program prepares individuals to apply technical knowledge and skills to service, repair and maintain all types of automobiles and light trucks. This program provides instruction in all eight areas of Automotive Service Excellence (ASE) categories: heating & air conditioning, steering & suspension, brakes, electrical/electrical systems, engine repair, automatic trans/transaxle, manual drive trains & axles, and engine performance.

### **Carpentry AM (CTC003)**

Construction trades is an instructional program that exposes students to a variety of construction skills that will prepare them for entry level positions in many facets of the construction industry. Instructional areas include: the use of various hand and power tools, rough & finished carpentry, painting & decorating, masonry, plumbing, electrical, and blue print reading

### **Collision Repair AM (CTC002)**

Collision repair prepares students to apply technical knowledge and skills to repair damaged vehicles. Students will use various hand & power tools as well as specialized repair equipment. Areas of instruction includes: examining vehicles and estimating repair costs, repairing dented areas, window & glass replacement, straightening bent frames & uni-body structures, and automobile refinishing processes.

### **Computer Networking AM (CTC004)**

Computer networking is an instructional program that focuses on the design, implementation, and management of linked systems of computers, peripherals and associated software and prepares individuals with the technical skills required to support networks and network users. This includes instruction in: system design, architecture, operating systems, security, communication protocols, trouble shooting and server optimization.

### Cosmetology AM (974)

Cosmetology is a program that prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes shampooing services, scalp treatments, hair cutting and styling, coloring, facials, manicuring, hand and arm massaging and waxing.

### Culinary Arts AM (976)

The Culinary Arts program prepares students for employment related to institutional, commercial or self-owned food establishments or food industry occupations. Instruction and learning includes: nutritional values, principles of cooking, food quantities and presentation, the use and care of commercial equipment as well as safety and sanitation precautions.

### Electrical Occupations AM (975)

This instructional program prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically energized residential, commercial and industrial systems, controls and electrical distribution panels. Instruction emphasizes: application of mathematics, practical use of science, interpreting circuit diagrams, blueprint reading and sketching

### Health Occupations AM (977)

This is a program with a combination of subject matter and experiences designed to prepare individuals for entry level employment in several health occupations fields under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experience in one or two health related occupations. The core curriculum includes: basic anatomy & physiology, medical terminology, legal & ethical concepts of healthcare, clinical experiences in one of two healthcare professions.

### HVAC & Refrigeration AM (CTC007)

HVAC-R is an instructional program that prepares students to apply technical knowledge and skills to install, repair and maintain commercial and domestic heating, air conditioning and refrigeration systems. The course contains teaching on basic principles of HVAC-R including: Filtering and controlling humidity, operating characteristics of various units & parts, blueprint reading, diagnosing malfunctions, repair and adjustments of pumps, compressors, valves, etc.

Public Health & Safety AM (CTC008) PHS is an all-encompassing look at public safety careers. The program covers Fire, EMS, Law Enforcement, Homeland Security, Corrections and Private Security. The program does not concentrate on any one aspect but exposes students to hundreds of careers with the realm of public safety. Through a combination of classroom and hand on training, the students learn about topics not limited to: fire suppression, emergency medical care & treatment, handling of suspects & prisoners, scene investigation & evidence collecting, incident command, hazardous materials, 911 center operations, retail security, active shooter and basic self-defense tactics.

### Sports Exercise & Rehabilitation Therapy AM (CTC010)

SERT is a program that prepares students to apply technical knowledge and skills in the medical field. The class helps prepare students to pursue degrees in Physical Therapy, Athletic Training and many other 2 & 4 year degree programs, as well as working directly in the medical field as an assistant. Areas of instruction include: proper safety & health practices, prevention, evaluation & rehabilitation of injuries, identifying types of medical equipment, treatment measures for different kinds of injuries, taping & bracing techniques and proper documentation of rehabilitation.

### Welding AM (991)

The Welding program prepares individuals to apply technical knowledge and skills in gas, arc, shielded & non shielded metal arc, brazing and flame cutting. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices, types and uses of electrodes & welding rods, properties of metal, blueprint reading, electrical principles, welding symbols, fabrication techniques and the use of various hand and power tools.