

# **COURSE DESCRIPTIONS 2017-2018**

## *COLLEGE & CAREER INFORMATION*



*Mount Union Area School District  
706 North Shaver Street  
Mount Union, PA 17066  
Mr. Curtis Whitesel, Sr High Principal  
Ms. Amy Smith, Jr High Principal  
[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, Reading(7<sup>th</sup>)) 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.

# YOUR CAREER CONNECTION

## Examples of Careers Related to Academic Subject Areas

### ENGLISH

Includes Speech

^Actor	^Library Technician
*Advertising Copywriter	*Public Relations
*College/University Faculty	^Radio/TV Announcer
^Dramatist – Playwright	*Reporter/Journalist
*Editor	*Speech Pathologist
*Educational Administrator	*Teacher
*Lawyer	*Technical Writer
^Legal Assistant	^TV Production Director
*Librarian	^Writer/Author

### SOCIAL STUDIES

Includes Economics & Psychology

*Anthropologist	*Librarian
*College/University Faculty	*Lobbyist
*Counselor (School/College)	*Market Research Analyst
^Criminologist	^Park Ranger
*Educational Administrator	*Political Scientist
*FBI Agent	*Private Detective
*Foreign Service Officer	*Psychologist
*Geographer	*Recreation Leader
*Historian	^Social Worker
*Human Resources Manager	*Sociologist
^Human Services Worker	*Teacher
*Lawyer	*Travel Guide
^Legal Asst/Paralegal	*Urban Planner

### FOREIGN LANGUAGE

* College/University Faculty	^Police Officer
*Public Relations Specialist	*Editor
*FBI Agent	^Singer
^Flight Attendant	*Social Worker
* Foreign Service Officer	*Teacher
^Interpreter	^Travel Agent
^Nurse	^Travel Guide

^ 2 year or 4 year degree  
\* 4 year degree

### MATH

Includes Computer Science/Math

^Account Executive	*Investment Analyst
*Accountant	^Loan Officer/Counselor
*Architect	*Market Research Analyst
^Bank Manager	*Mathematician
*Buyer	*Meteorologist
*College/University Faculty	*Oceanographer
*Computer Network Specialist	*Physicist
*Computer Programmer	^Real Estate Agent
*Computer Systems Analyst	^Retail Store Manager
*Electrical/Electronics Engineer	*Sales/Marketing Mgr
^Financial Planner	*Tax Accountant
^Food Service Manager	*Teacher
^Hotel/Motel Manager	^Technical Illustrator
*Human Resources Manager	^Travel Agent
*Insurance Claims Rep	^Web Site Director

### NATURAL SCIENCE

*Animal Scientist	*Meteorologist
*Astronomer	^Nuclear Med Tech
*Athletic Trainer	^Nurse
*Biochemist	*Nutritionist/Dietitian
*Biologist	*Occupational Therapist
^Broadcast Technician	*Oceanographer
*Chemist	*Optometrist
*College/University Faculty	*Pharmacologist
*Dental Hygienist	*Physical Therapist
^Dentist	*Physician
*Engineer	*Physicist
*Forester	*Teacher
^Funeral Director	^Radiographer
*Horticulturist	^Respiratory Therapist
*Medical Technologist	*Veterinarian

### FINE ARTS

Includes Art, Music, & Drama/Theater

^Actor	^Graphic Artist
*Advertising Manager	^Illustrator
*Architect	^Interior Designer
^Artist	*Landscape Architect
^Cartoonist	^Musician
*College/University Faculty	^Photographer
^Dancer/Chorographer	*Singer
^Fashion Designer	*Teacher
^Floral Designer	^Web Site Developer

## ***WINNING CHARACTERISTICS FOR SUCCESS***

Will you be able to prove that you have the most important skills and hear “You’re hired”?

- ❖ **Communication Skills** - Reading writing, speaking, listening – the basic ability to clearly present your thoughts is a requirement for virtually all jobs.
- ❖ **Organizational Skills** – To effectively participate in a wide variety of tasks will require that you can keep track of yourself, your schedule and any number of things you may need in a given field. You need to be able to prioritize, focusing on important projects, managing details and developing step-by-step plans to accomplish your goals.
- ❖ **Leadership** – Employers want people who can come in and make a difference. They want employees who can rally a team behind them and make things happen
- ❖ **Logic** – Some jobs require strong analytical ability. Others require creative thinking skills. Still others require long-term strategic planning or complex problem-solving ability. Regardless, intelligence and the ability to think your way to a solution play a key role in the hiring decision.
- ❖ **Effort** – When the going gets tough, employers want someone willing to go the extra mile and make the personal sacrifice to get the job done correctly and on time. They want individuals who can stay focused and perform consistently over an extended period of time.
- ❖ **Group Skills** – Can you work with other people? Regardless of the field, just about everything you do will be on some kind of team.
- ❖ **Entrepreneurship** – The rate of change in the world is accelerating dramatically. The ability to take risks and to create, accept and adapt to change easily and quickly is a valued skill.



# TIMELINE

## COLLEGE ADMISSIONS/FINANCIAL AID CALENDAR

### Junior Year

#### *MARCH*

##### *Admissions*

- \*Request Information from Colleges
- \*SAT

##### *Financial Aid*

- \*Research scholarship Opportunities
- \*Discuss college finances with your parents
- \*Arrange to meet a college financial aid representative

#### *APRIL*

##### *Admissions*

- \*ACT
- \*Attend college fairs and talk with reps at your school
- \*Athletes get NCAA guide
- \*Athletes sign up with NCAA Eligibility Center

##### *Financial Aid*

- \*Look for summer job opportunities
- \*Search for scholarship sources (Web searches)

#### *May*

##### *Admissions*

- \*SAT Reasoning Test or SAT Subject Tests
- \*Summer plans – work, volunteer, class

#### *June/August*

##### *Admissions*

- \*ACT/SAT Reasoning Test or SAT Subject Tests
- \*Create Resume
- \*Begin preparing essays and scholarship applications

##### *Financial Aid*

- \*Save summer earning for college
- \*Continue to search for scholarship opportunities

**Reference: Making it Count**

# Senior Year

## *September*

### *Admissions*

- \*Talk with counselor/parents
- \*Visit college reps at your school/visit colleges
- \*Request college information (financial aid, housing)
- \*Begin to file rolling admission/regular decision apps
- \*Keep copies of applications and forms sent
- \*Write essays/line up recommendations
- \*Send test scores and transcripts to colleges
- \*Attend college fairs

### *Financial Aid*

- \*Request financial aid applications from colleges
- \*Register for CSS Financial Aid PROFILE
- \*Talk to your parents about paying for college

## *October*

### *Admissions*

- \*Keep checklist – meet deadlines
- \*Finish early decision applications
- \*ACT

### *Financial Aid*

- \*Continue searching for scholarship/aid sources
- \*Talk with parents about options for paying for college

### *Financial Aid*

- \*Use FAFSA worksheet to prepare for online FAFSA

### *Financial Aid*

- \*FAFSA available online
- \*Get all financial documents in order (keep copies)
- \*Complete FAFSA(keep copies) before February 15
- \*Parents & Student need to apply for an I.D. and password  
(Electronic signature)

## *November*

### *Admissions*

- \* SAT Reasoning Test or SAT Subject Tests

## *December*

### *Admissions*

- \*ACT
- \*Receive Early Decision
- \*Finish regular decision/rolling admission applications

## *January*

### *Admissions*

- \*Send mid-year reports, if necessary
- \*Rank schools where you've applied

## *February/March*

### *Admissions*

- \*Keep up grades – it matters

### *Financial Aid*

- \*Review SAR (Student Aid Report) carefully
- \*Review financial aid packages

## *April*

### *Admissions*

- \*Visit schools where accepted
- \*Make final decision – mail deposit to ONE school
- \*Notify, in writing, all schools of your choice
- \*If wait-listed, contact admissions office if interested

### *Financial Aid*

- \*Compare aid/scholarship packages
- \*Contact financial aide office if you have any special financial aid circumstances
- \*Make sure you meet all financial aide requirements/deadlines
- \*Notify colleges of any private scholarship awards

## *May/June*

### *Admissions*

- \*Request final transcript be sent to college
- \*Follow procedure for college housing & orientation
- \*Athletes – request final transcript for NCAA Eligibility Center
- \*Complete physical for college

### *Financial Aid*

- \*Analyze projected first-year college budget
- \*Check banking options in your college's town

## When seeking out schools you may want to consider . . .

1. Strength in fields of interest
2. Availability of financial assistance
3. Interests outside the classroom
4. Price doesn't always equal value

## SAT

Go on line for register for the SAT at [www.collegeboard.com](http://www.collegeboard.com).

When registering for SAT always remember to list Mount Union Area School District Code.

**392815**

**Reference: Making it Count**

**Students that would be successful candidates for admission to state institutions of higher education** – The successful completion of the following courses would adequately prepare students for coursework at a state sponsored four year institution of higher education:

- English – 4 years
- Science – 3 years, including at least two of a laboratory science
- Social Studies – 3 years
- Foreign Language – 2 years
- Mathematics – 3 years – in college-preparatory level courses, including Algebra I, Geometry, Algebra II

Students must attain proficient or above on the Keystone exams in the content areas of Algebra I, Biology & Literature.

## *MY COLLEGE VISIT CHECKLIST*

Name of School: \_\_\_\_\_

Date of Visit: \_\_\_\_\_

Tour Guide Name: \_\_\_\_\_

- Talk with students and faculty
- Ask the tough questions until you get answers
- Go to a class or two
- Visit the career center
- Take a notebook to write down your impressions
- Plan at least one half-day at each school and stay overnight. if possible
- Visit when the school is in session
- Arrange and interview with an admissions officer
- Take a campus tour
- Attend an extracurricular activity (sports/theater etc)
- Check out the residence halls, libraries, student union, etc
- Have a meal on campus
- Find out about campus organizations and activities
- Visit a lab associated with your intended major (computer lab, chemistry lab, etc)

# 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

## READ 180 (163A)10<sup>TH</sup> (163B)9<sup>TH</sup>

Read 180 is a multimedia program that blends teacher instruction with innovative technology to help students become better readers. It is a comprehensive system of curriculum, instruction, assessment, and professional development proven to raise reading achievement for struggling readers in grades 7-10. Students are placed in this course enough through the recommendation of their English teacher.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## KEYSTONE LITERATURE K01053

Students may be placed in this course if the Keystone Literature scores are in the Basic or Below Basic range.

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, 4<sup>th</sup> 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

ENG 110 ENGLISH COMPOSITION I (E001)  
Grade 11 Cohort Penn Highlands  
Tentative Course

English Composition I emphasizes 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 students pay tuition fees this course may be taken for 3 credits from Penn Highlands

**ELECTIVE**

SAT PREP/MATH/READING (ELE001)  
GRADE 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) GRADES 9 - 12

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

## KEYSTONE ALGEBRA (330BAH/330BA/300BB) GRADES 9-11

Keystone Algebra is a course designed to help students fine-tune the skills they need in order to score Proficient or Advanced on the Pennsylvania Keystone Algebra Exam. Areas of emphasis will be Operations with Real Numbers and Expressions; Linear Equations; Linear Inequalities; Functions; Coordinate Geometry; and Data Analysis as they apply to the Algebra I Keystone Exam. Students will also study Operations with Complex Numbers; Non-Linear Equations; Patterns, Relations, and Functions; and Applications of Functions. *Enrollment in this class is by teacher placement only.*

PREREQUISITE: Passing Grade in Algebra I *and* Teacher Recommendation

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## APPLIED MATHEMATICS I (MA0017)

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.

PREREQUISITE: Keystone Algebra

LENGTH OF COURSE: One Year

CREDIT AWARDED: One Credit

ALGEBRA II (340)  
GRADES 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. Additionally, a score of proficient or advanced on the Algebra I Keystone Exam is required.

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 (Honors) (341)  
GRADES 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. Additionally, a score of proficient or advanced on the Algebra I Keystone Exam is required.

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)  
Grades 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. Additionally, a score of proficient or advanced on the Algebra I Keystone Exam is required.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS:

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

GEOMETRY HONORS (MA015)  
Grades 9 & 10

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 and trigonometry.

PREREQUISITE: Algebra II and Teacher Recommendation. Additionally, a score of proficient or advanced on the Algebra I Keystone Exam is required.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS:

LENGTH OF COURSE: One-Half Year

CREDIT TO BE AWARDED: One-Half Credit

TRIGONOMETRY HONORS (MA017)  
GRADES 9 & 10

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. Additionally, a score of proficient or advanced on the Algebra I Keystone Exam is required.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS:

LENGTH OF COURSE: One-Half Year

CREDIT TO BE AWARDED: One-Half Credit

ALGEBRA III (MA006)  
Grades 11 & 12

Algebra III includes intermediate Algebra skills. This course is designed to prepare students for higher level mathematics through a mastery of algebraic concepts. Topics include, but are not limited to: factoring, laws of exponents, polynomials, equations and inequalities (including linear, quadratic, and absolute value), graphing, systems of equations and inequalities, functions, rational expressions, radicals, and application.

PREREQUISITE: Algebra II. Additionally, a score of proficient or advanced on the Algebra I Keystone Exam is required.

TEXTBOOK: Intermediate Algebra, 6e, Martin-Gay

LENGTH OF COURSE: One year

CREDIT TO BE AWARDED: One Credit

COLLEGE ALGEBRA (MA005)  
Grades 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. Additionally, a score of proficient or advanced on the Algebra I Keystone Exam is required.

TEXTBOOK: College Algebra, 5e, Blitzer

LENGTH OF COURSE: One year

CREDIT TO BE AWARDED: One Credit –

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

PRE-CALCULUS w/Trigonometry (392)  
GRADES 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. Additionally, a score of proficient or advanced on the Algebra I Keystone Exam is required.

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

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

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. Additionally, a score of proficient or advanced on the Algebra I Keystone Exam is required.

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

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

STATISTICS (MA013)  
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. Additionally, a score of proficient or advanced on the Algebra I Keystone Exam is required.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

A.P. STATISTICS (2203)  
Grade 11 & 12

Students will be introduced to topics following the College Board's Advanced Placement Statistics curriculum. 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. Additionally, a score of proficient or advanced on the Algebra I Keystone Exam is required.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

# **SCIENCE DEPARTMENT**

## **SCIENCE 9: NATURE OF SCIENCE (225)** 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

## **ACCELERATED SCIENCE: NATURE OF SCIENCE (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 REMEDIAL (SC002)** GRADE 11 & 12

This course is designed for students who require support to achieve a score of proficient on the Keystone Biology Exam. The course content will include: the science of biology, cell structure and function, cellular respiration, photosynthesis, cell growth and division, genetics an DNA, ecology and evolution. In addition, we will focus on test preparation and integrated project-based assessment.  
TEXTBOOK AND /OR SUPPLEMENTARY MATERIALS: prentice Hall Biology text, lab sheets, handouts, online course material  
LENGTH OF COURSE: One Year  
CREDIT TO BE AWARDED: One Credit

BIOLOGY (250)  
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

ADVANCED BIOLOGY (260)  
GRADE 12

Advanced Biology is a course designed to cover the fundamental principles of biology. Course topics include taxonomy, cytology, genetics, evolution, and human physiology (including a fetal pig dissection). Along with these topics, there will be an extensive unit on biotechnology. The writing of formal lab reports and researched based papers will be emphasized along with the reading of several science based novels. Students will be required to keep an ongoing notebook and will 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

ACCELERATED BIOLOGY (251)  
GRADE 10

This course is intended for the 10th 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.

PREREQUISITES: 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

CHEMISTRY (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. If student has not achieved a proficient or advanced on Keystone Biology Exam the student may be rescheduled for a Biology remediation class. This class is partially weighted, and therefore, requires some work to be completed outside of classroom time.

PREREQUISITES: 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 (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. If student has not achieved a proficient or advanced on Keystone Biology Exam the student may be rescheduled for a Biology remediation class. 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 6<sup>th</sup> Edition

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

CHEMISTRY (RELATED) (275)  
GRADE 11

This course is for the non-academic student. Hands-on learning and problem-solving are emphasized. Topics include: Scientific processes, measuring, naming, reactions, solutions, acid base topics, gas laws, and atomic structure. If student has not achieved a proficient or advanced on Keystone Biology Exam the student may be rescheduled for a Biology remediation class.

TEXTBOOK: World of Chemistry Zumdahl/Zumdahl/DeCoste

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

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)  
GRADES 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 (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 and Zumdahl

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit



ENVIRONMENTAL GEOLOGY/BIOLOGY (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, PROFICIENT KEYSTONE BIOLOGY

TEXTBOOK/SUPPLEMENTARY MATERIAL: PHYSICAL GEOLOGY LAB MANUAL, ENVIRONMENTAL SCIENCE

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

ANATOMY (SC005.1)  
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 biomolecules, cells, tissues, and the major body systems and how they are related and interconnected. This class is designed to college preparatory for majors in biology and the medical field. Dissections of preserved organs and other specimens will be done periodically throughout the year to enhance the learning experience.

PREREQUISITE: Completion of Biology with a B average or better & have completed or are 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

## **SOCIAL STUDIES**

World History (SS0011)  
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.

Resources from Blendedschools will be incorporated into the curriculum throughout the school year. Students use such technological items as laptops, projectors, Smartboards, and Blackboard software 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

U.S HISTORY I (SS0012)  
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, and the Revolutionary War. Special emphasis will be placed upon the geographical, economical, political, and social aspects that played a role in each of the historical topics listed above. Resources from Blendedschools.net will be incorporated into the curriculum throughout the semester as the students use such technological items as laptops, projectors, smart boards, and Blackboard software to explore and learn the material. This course is required for graduation and must be taken by sophomores.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: America's Story, Houghton Mifflin Co.; United States History, Prentice Hall and Blendedschools.net

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

U.S. History II (SS0013)  
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. Resources from Blended schools will be incorporated into the curriculum throughout the school year as the students use such technological items as laptops, projectors, smartboards, and Blackboard software 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

AMERICAN GOVERNMENT(445)  
GRADE 12

- Democracy is the worst form of government. Except for all the others." ~ Winston Churchill

Course Overview

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.

Beyond introducing you to the structure and functions of American government my goals in this class are: 1) to ignite in you an appreciation of government and politics and to change the way you look at the world; 2) to give you the tools and skills required to make sense of political issues and debates and to become a more informed participant if you so choose and 3) to help you sharpen your critical thinking and writing skills by way of analysis of key issues in American politics.

Resources from Blended schools will be incorporated into the curriculum throughout the school year as the students use such technological items as laptops, projectors, smart boards, and Blackboard software to explore and learn the material

- No man is good enough to govern another man without that other's consent. ~Abraham Lincoln

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 freedoms under the American civil liberties and the function of the executive office of the President.

Beyond introducing you to the structure and functions of American government my goals in this class are: 1) to ignite in you an appreciation of government and politics and to change the way you look at the world; 2) to give you the tools and skills required to make sense of political issues and debates and to become a more informed participant if you so choose and 3) to help you sharpen your critical thinking and writing skills by way of analysis of key issues in American government and individual rights and freedoms.

Resources from Blended schools will be incorporated into the curriculum throughout the school year as the students use such technological items as laptops, projectors, smart boards, and Blackboard software to explore and 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, and states of consciousness. Topics from the subject of sociology will be interwoven into this course. Those topics include: aspects of roles, relationships, and groups in American society, the history and structure of the American family, childhood and adolescent social development in American society, and how poverty, discrimination, and crime affects American society. Resources from Blendedschools.net will be incorporated into the curriculum throughout the school year as the students use such technological items as laptops, projectors, smart boards, and Blackboard software to explore and learn the material.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Psychology: An Introduction, Pearson Prentice Hall; Sociology: Understanding Society, Prentice Hall and Blendedschools.net

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: .One Credit

United States History-I (AD0002)  
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, economical, political, and social aspects that played a role in each of the historical topics listed above. Resources from Blendedschools.net will be incorporated into the curriculum throughout the semester as the students use such technological items as laptops, projectors, smart boards, and Blackboard software 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.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: America's Story, Houghton Mifflin Co.; United States History, Prentice Hall and Blendedschools.net

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if students pay tuition fees this course may be taken for 3 credits from Penn Highlands

United States History II (AD0003)  
HIS 110 College Level  
Penn Highlands Course

This course focuses on the history of the United States from the Gilded Age to our status as a sole superpower today. Major events will be introduced and analyzed along with political, economic, social and cultural challenges that America faced during that period.

TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: American Promise 2<sup>nd</sup> Edition, Bedford Saint Martins.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if students pay tuition fees this course may be taken for 3 credits from Penn Highlands

PSY100 General Psychology  
College Level  
Penn Highlands Course  
Tentative 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; Sociology: Understanding Society, Prentice Hall and Blendedschools.net.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: 1 Credit

\*if students pay tuition fees this course may be taken for 3 credits from Penn Highlands

# **FOREIGN LANGUAGE**

## **SPANISH I (180)** GRADES 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: Above average English grade

TEXTBOOK: Realidades 1, Prentice Hall

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **SPANISH II (181)** GRADES 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 preterite 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 (182/3)** GRADES 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

### ANIMAL CARE (AG012) Grades 9-10

Do you want to learn to take care of animals or just learn more about them? Students enrolled in this course will have the opportunity to work with hamsters, guinea pigs, rabbits, gerbils, chinchillas, mice, rats, dogs, cats and other small animals. Students will learn basic health care, nutrition, reproduction, disease control and prevention, as well as the use of animal society. Students will have the opportunity to compete in Veterinary Science Career Development Event.

Pre-requisites: None

Length of Course: One Year

Credit Awarded: One Credit

### ANIMAL SCIENCE I (681) Grades 9-11

This course will explore each species of animal livestock. Instruction will pertain to animal health, nutrition, reproduction, animal use in society, and basic veterinary technology. Students will study each of the animal agriculture sectors across the United States and identify areas where specific animal industries are concentrated. Basic animal husbandry practices will be taught. A unit will be taught on FFA and basic leadership principles.

PREREQUISITE: None

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### ANIMAL SCIENCE II (AG004) Grades 10 - 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. It will also provide insight into the world of fish and wildlife as related to agriculture; including an in depth study of those breeds that are native to Pennsylvania. Students will apply concepts taught in Animal Science I through research projects and hands on application with livestock housed in the Ag Shop. A unit will be taught on the FFA and basic leadership principles.

PREREQUISITE: Animal Science I and Teacher Recommendation (signature)

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## HORTICULTURE I (AG002)

Grades 9-11

Students in the Horticulture class will explore all areas of horticulture including greenhouse production, landscaping, 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. A unit will be taught on the FFA and basic leadership principles.

Prerequisite-One

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## HORTICULTURE II (AG003)

Grades 10, 11 &12

Students in Horticulture II will choose a focus area in Landscaping, Floral Design, or Greenhouse Management. Students will manage the school greenhouse, assist in the maintenance of the school grounds and design projects for the Pennsylvania Farm Show. A Unit will be taught on the FFA and basic leadership principles.

PREREQUISITE: Horticulture I

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## FOOD SCIENCE (AG0013)

GRADES 9-12

This course will allow students to acquire understanding and academic knowledge of the science of food experimentation and preparation techniques. During this course of study, students explore basic food science skills, nutrition concepts, management skills, preparation techniques, consumerism, foreign foods, and career options. Emphasis will be placed on the agribusiness aspect of food science including instruction and 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.

PREREQUISITE: Family and Consumer Science I.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One credit

## AG BUSINESS MANAGEMENT (AG016) Unavailable 2018

GRADES 11-12

This course will explore all aspects of owning and managing an agricultural business. Students will learn about profit, loss assets (short, medium, long) and liabilities (short, medium, long). Students will explore the options available to business owner for funding, will practice recordkeeping and will complete a business plan for a business in which they would like to be part of.

PREREQUISTE: None

LENGTH OF COURSE: One Year

CREDIT TO BE ADWARDED: One Credit



SUPERVISED AGRICULTURE EXPERIENCE I (689)

Grades 9 – 12

SUPERVISED AGRICULTURE EXPERIENCE II (AG008)

Grades 10 – 12

SUPERVISED AGRICULTURE EXPERIENCE III (AG009)

Grades 11 -12

SUPERVISED AGRICULTURE EXPERIENCE IV (AG010)

Grade 12

Occurs beyond the school day and requires teacher recommendation/approval. This class includes participation in Future Farmers of America and outside projects.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

VETERINARY SCIENCE (AG0014) Unavailable 2018

Grades 10-12

Do you want to work with animals or just learn more about them? Students enrolled in the this course will have the opportunity to investigate animal anatomy and physiology, handling and restraining techniques, diseases and methods of control, surgical skills, examinations and treatments, laboratory techniques and identification. Practical hands-on experience with animals will be used whenever possible in laboratory sessions. Students will have the opportunity to compete in the Veterinary Science Career Development Event.

PREREQUISITES: Animal Science I or passed Biology with at least a B average

LENGTH OF COURSE: One Year

CREDIT AWARDED: One Credit

WILDLIFE MANAGEMENT (AG0012)

Grades 10-12

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. Students will have the opportunity to participate in the Envirothon or the Wildlife Career Development Event.

PREREQUISITES: None

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

AGRICULTURE TECHNOLOGY (680)

GRADE 10-12

Do you want to learn more about the basic mechanical skills needed to work in the field of Agriculture? This course introduces students to the basics of air cooled and internal combustion engines, welding, basic carpentry skills, electricity, and non-traditional sources of power such as solar and wind power. Students will receive practical hands-on experience by completing shop projects. Students will have the opportunity to completing in the Small Gas Engines Career Development Event.

PREREQUISITES: NONE

LENGTH OF COURSE: ONE YEAR

CREDIT AWARDED: ONE CREDITS

# ART

## BASIC ART (612) GRADES 9-12

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

## CRAFTS (614) Grades 10-12

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

## DRAWING I (615)

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. Aspects of cartooning will be studied.

PREREQUISITE: Basic Art

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## PAINTING I (625)

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)

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: Drawing I, or Painting I, another Art Course, and instructor's permission  
LENGTH OF COURSE: One Year  
CREDIT TO BE AWARDED: One Credit

CERAMICS I (624)

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: Two art levels and instructor's permission  
LENGTH OF COURSE: One Year  
CREDIT TO BE AWARDED: One Credit

CERAMICS II (623)

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

**BUSINESS & TECHNOLOGY EDUCATION**  
**DEPARTMENT**

**PROGRAM OF STUDY-ACCOUNTING AND ADMINISTRATIVE ASSISTANT COMPLETERS AND CONCENTRATORS WILL TAKE THE NOCTI TEST IN GRADE 12**

ACCOUNTING I (520)  
GRADES 10 - 12

This course covers the accounting cycle for a service business that is organized as a sole proprietorship and a merchandising business that is organized as a partnership. This is an excellent course for students considering a career in the business field.  
TEXTBOOK AND/OR SUPPLEMENTARY MATERIALS: Century 21 Accounting, South-Western Publishing Co.  
LENGTH OF COURSE: One Year  
CREDIT TO BE AWARDED: One Credit

ACCOUNTING II (530)  
GRADE 11 & 12

This course is a continuation of Accounting I. The accounting cycle for a corporation is studied. Specific areas covered include: departmentalized accounting, payroll, uncollectible accounts, notes and interest, accrued items, depreciation, dividends, and financial analysis for a corporation. Additional study in automated accounting is also provided.

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

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

CAREER EXPLORATION-GRAD PROJECT (585)  
GRADE 11

All students are required to pass this course prior to graduation. The purpose of this course is to prepare students for life beyond high school. This will be accomplished in the following ways:

- Career Exploration – throughout the course the student will be exposed to a variety of career exploration tools including self-assessments, career research activities, mock interviews, guest speakers, site visits, personal budgeting activities, and current events research activities. In addition, the students will explore the world of entrepreneurialism by participating in a semester long program. Through this program the students will work in a group to develop an idea for a business, write a business plan including financial projections, and present their business idea to a panel of local business people.
- Graduation Project – in order to receive a passing grade for the course the student must complete a project. Students are encouraged to complete a project based on their career interests, personal interests, or other use of their talents. The purpose of the project is to

develop planning, time management, and project management skills. The culmination of the graduation project includes a symposium held in the gymnasium and a presentation to a panel of judges comprised of local business people and school administrators. Much of this project must be completed outside of school hours.

- Community Service – each student is required to complete 10 hours of community service for a local non-profit agency/organization 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, graduation project, 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; recommendation letter; thank you letter.
- 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

### INTRODUCTION TO COMPUTER APPLICATIONS (560)

GRADES 9, 10, 11 and 12

During the first semester, students will strengthen their keyboarding skills for personal and business use; review and reinforce the alphabet, number keys, symbols and their applications; increase their speed and accuracy using proper techniques; and develop skills to include arranging, placing, and spacing copy in the formatting of personal business and business letters, memos, reports, and tables. 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 these areas are then encouraged to take the full-year course.

SOFTWARE: Microsoft Office

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### MICROSOFT WORD (563)

GRADES 10, 11 and 12

With this course, students will develop and apply keyboarding skills for personal and vocational use. Students will learn to use a variety of computer software features to arrange the most often used documents for personal, college, or business use.

Upon successful completion of this course, students will be prepared 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)  
GRADES 10, 11 and 12

Both college-bound students (especially in the math and science fields) and also for business students, will benefit from learning to use this EXCEL-lent spreadsheet software. 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 be prepared 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

MICROSOFT ACCESS/MARKETING MANAGEMENT (582)  
GRADES 11 and 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

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 at the NOCTI level. 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.

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

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

PERSONAL FINANCE (584)  
GRADES 11&12

The course will deal with personal finance and is designed to give the student a basic fundamental understanding of a variety of personal finance issues including managing and balancing a checkbook, planning a monthly budget of income and expenses, applying for a personal loan and investing money for the long-term.

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. Student must currently be taking Office Procedures (or the online equivalent).

PREREQUISITE: Computer Applications and Microsoft Word. Prior approval must also be received from the Office Procedures teacher after student completes job application/interview

NOTE: Enrollment is limited to one student per class period. Priority will be given to those students who are completers in the business program. 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

ADVANCED COMPUTER APPLICATIONS (BI001)  
GRADES 11 AND 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 PowerPoint, Publisher, and Microsoft Outlook. 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 I, and also completion of at least one of the following courses: Word, Excel or Access (with a grade of at least a "C")

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

Microcomputer Applications (AD0001)

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 students pay tuition fees this course may be taken for 3 credits from Penn Highlands

Microsoft Word (AD0004)

CIT 107 College Level

Penn Highlands Course

This course provides basic as well as advanced information and hands-on training in the use of Microsoft Word for Windows. Students create, edit, format, revise and print documents. Students also learn to add graphics to documents and work with multiple documents as well as sorting and merging techniques.

PREREQUISITES: AD0001 Microcomputer Applications

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

\*if students pay tuition fees this course may be taken for 3 credits from Penn Highlands



# FAMILY AND CONSUMER SCIENCES DEPARTMENT

## EARLY CHILDHOOD EDUCATION (649)

GRADES 9, 10, 11, and 12

The Early Childhood Education course is designed to help students understand how children grow and develop. It helps students understand the roles and responsibilities of parents and caregivers. Students will study human relations, children's nutrition, and the financial aspects of parenthood. Careers that focus on working with children and career exploration are also included in this course. While working with a child in an internship program, the student will develop usable caregiver skills.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## EARLY CHILDHOOD EDUCATION II (644)

GRADES 10, 11, and 12

Continuation of Early Childhood Education

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## EARLY CHILDHOOD EDUCATION III (CS001)

Continuation of Early Childhood Education

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## FAMILY CONSUMER SCIENCE (643)

GRADES 9, 10, 11, and 12

Family and Consumer Science are designed to provide students with basic information and skills to function effectively within the family and within a changing, complex society. Topics of study include: nutrition and food selection; healthy lifestyle choices; meal planning and preparation; home management; money management; housing; interior design; and clothing and textiles. Students will need to purchase materials for class amounting to approximately **\$30.00**.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One credit

LIMIT: 8 students

## FAMILY CONSUMER SCIENCE II (643A)

GRADES 10, 11, and 12

Continuation of Family Consumer Science. Students will need to purchase materials for class amounting to approximately **\$30.00**.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One credit

# 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-Every other day alternating with Study Hall

CREDIT TO BE AWARDED: One-Half Credit

## RECREATION/FITNESS (950)(Boys) (950G)(Girls) GRADES 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

## REC FITNESS (5days)(950B)(Boys) (950(5)G (Girls)/SAFETY EDUCATION (900)

Safety Education – This course will promote and provide the knowledge for the student to become a safe driver. Subject areas that are covered include drivers' manual, basic car control, signs, signals, the IPDE process, intersections, driving in towns and cities, highway driving, adverse conditions, alcohol and driving, vehicle maintenance and other related topics.

TEXTBOOK: Responsible Driving, Glencoe

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: .80 Rec & Fit .20 Safety Education

## SPECIFIC SPORTS ACTIVITIES(955)(Boys)955G(Girls) Grades 9, 10, 11&12

This class will provide students with an opportunity to meet Physical Education Requirements while working on in-season & out-of-season training, sports skills, and fitness goals. Activities will include: Strength & Conditioning, Flexibility, Individual Sport Skills, Competition & Team Building, Fitness & Skills Testing, and Sport Preparation.

PREREQUISITES: School Sport Participation and/or Teacher Approval

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

# **INDUSTRIAL ARTS TECHNOLOGY** **EDUCATION**

## **INTRO TO TECHNOLOGY & ENGINEERING (IA018)**

Grades 9-12

Technology education is the use of accumulated knowledge to process resources to meet human needs and improve quality of life. Students will explore the history of technology, learn related concepts, and link technology to other aspects of education and society. We will delve into engineering design and the problem solving process in the areas of flight, energy, electronics, communication systems, robotics, and construction. Students will explore problem solving methods and solutions to past and present issues.

PREREQUISITES: Teacher Recommendation

LENGTH OF COURSE: ONE YEAR

CREDIT TO BE AWARDED: ONE CREDIT

## **VISUAL BASIC (596)**

GRADE 10-12

This is an introduction to computer science and programming using Microsoft Visual Basic programming language. This course involves intense problem solving. A personal laptop is recommended or one will be provided by the school.

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

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **INTRO TO PRODUCTION (IA009)**

GRADES 9-12

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, and processes will be utilized to produce an individual student project.

TEXTBOOKS: Woods Technology and Processing, Fairer

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **CABINET MAKING (IA010)**

GRADES 10-12

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.

PREREQUISITE: Intro to Production

TEXTBOOK: Modern Cabinetmaking, Umstattd/Davis

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

# MUSIC DEPARTMENT

## SENIOR HIGH CHORUS GRADES 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

## SELECT VOCAL GROUP (832) GRADES 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: .50 (with band) or One Credit

## JAZZ BAND (833) GRADES 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) GRADES 9-12

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: .50 (with chorus) or One Credit

### CONCERT & MARCHING BAND (MU003) GRADES 9-12

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: .50 (with chorus) or One Credit

### 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) GRADES 9, 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.

PREREQUISITE: Completed eight grade

REQUIREMENTS: Max of 2 students per period. Recommendation by librarian required

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

### STUDENT ASSISTANT Grade 12 (Limited)

Course Description provided on individual basis. Recommendation by teacher required.

LENGTH OF COURSE: One Year

CREDIT TO BE AWARDED: One Credit

## **Virtual Academy**

The MUASD Virtual Academy is a service available to our students for a variety of purposes. Online courses provide a means for; course recovery, credit acceleration, to take courses not offered in our regular classroom, to take college courses, and to allow students to take courses not available to them due to scheduling conflicts with other classes.

Requirements:

- recommendation by guidance counselor, teacher, or administrator
- maintain passing grades in all courses both online and in the regular classroom
- follow all rules in student handbook and virtual classroom
- take all tests in the Virtual Academy lab
- student and parent/guardian must meet with Virtual Academy administrator for final approval before student can enter the program (this rule only applies to the first course a student takes online)
- students are responsible for costs related to time extensions needed to finish a course

For more information contact the Virtual Academy Head Teacher.

# **Co-Enrollment**

GRADES 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. or P.M. Transportation is provided by the Mount Union Area School District.

*Please complete the “Application for Admission to HCCTC”.*

Auto Mechanics AM (972)  
Auto Mechanics PM (972B)  
Carpentry AM (CTC003)  
Carpentry PM (CTC003B)  
Collision Repair AM (CTC002)  
Collision Repair PM (CTC002B)  
Computer Networking AM (CTC004)  
Computer Networking PM (CTC004B)  
Cosmetology AM (974)  
Cosmetology PM (974B)  
Culinary Arts AM (976)  
Culinary Arts PM (976B)  
Electrical Occupations AM (975)  
Electrical Occupations PM (975B)  
Health Occupations AM (977)  
Health Occupations PM (977B)  
HVAC and Refrigeration AM (CTC007)  
HVAC and Refrigeration PM (CTC007B)  
Public Health and Safety AM/PM (CTC008)  
Plumbing PM (CTC006B)  
Precision Machining AM (CTC981)  
Precision Machining PM (CTC981B)  
Welding AM (991)  
Welding PM (991B)