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West Mifflin Area High School
91 Commonwealth Avenue
West Mifflin, PA 15122
412-466-9131

BOARD OF SCHOOL DIRECTORS
Matthew J. Blazevich………………President
Anthony DiCenzo….Vice President
Judith Ahern……………… Education Chair
Nicholas Alexandroff…..Technology Chair
Bill Bennett….Buildings and Grounds Chair
Gina Englert…..Long Term Strategic Planning
Debbie Kostelnik….Safety/Transportation Chair
Jonathan Mattis………………Policy Chair
David Marshall………………Finance Chair

DISTRICT ADMINISTRATION
Jeffrey Soles – Superintendent
Jeffrey Solomon – Assistant Superintendent
Joseph M. Esper – Business Manager
Sandra Wells – Director of Building and Grounds
Leah Sylvis – Director of Pupil Services

HIGH SCHOOL ADMINISTRATION
Chad Licht – High School Principal
Melissa Welsh – Principal Grades 10 & 12
Robert Yeschenko – Principal Grades 9 & 11

HIGH SCHOOL COUNSELORS
Molly Harbst – (Last Names A - G)
Tom Ruffing – (Last Names H - N)
Jennifer Shields – (Last Names O – Z)

It is the policy of the District not to discriminate on the basis of race, sex, religion, color, national origin, ancestry, age or handicap, in its educational programs, services, facilities, activities or employment policies as required by Title IX of the 1972 Educational Amendments, Title VI and VII of the Civil Rights Act of 1964 as amended, Section 504 Regulations of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, Section 204 Regulations of the 1984 Carl D. Perkins Act, the Americans with Disabilities Act or any other applicable Federal or State statutes.
MISSION STATEMENT

“The mission of the West Mifflin Area High School – in partnership with families and community - is to establish a challenging and safe learning environment, where all students will attain the quality education and life experiences to become responsible life-long learners and contributing members of an ever-changing global society.”

We are dedicated to enabling students to be responsible, contributing and ethical citizens.

FOREWORD

The Program of Studies booklet is designed to assist you with the selection of courses and programs at West Mifflin Area High School. It provides academic information and individual course selection. The goal of course selection is to ensure proper placement into a variety of courses based on each student’s abilities and interests.

Please carefully review the Program of Studies prior to planning a schedule. Careful thought should be given to student ability, past academic achievement and future goals. The administration reserves the right to cancel any class due to lack of enrollment or available certified teacher.

GUIDANCE SERVICES IN SELECTION OF COURSE

The guidance office is organized into three groups. Students will be assigned to a counselor by last name. Students can visit with their counselor upon request or by making an appointment through the guidance secretary, but all students will be required to meet with their counselor at least once a year. Students may be requested to meet with their counselor several times a year depending on their need.

For any additional information, please call one of our counselors at (412) 466 - 9131:

Ms. Molly Harbst Last names A to G ext. 1010
Mr. Tom Ruffing Last names H to N ext. 1009
Mrs. Jennifer Shields Last names O to Z ext. 1008

Students in all grade levels are invited to visit the Career Center located in the Guidance Office. This is a resource center designed to assist the students in their career decision-making. Students will find a variety of reference materials:

- College and trade school directories
- Military information
- Reference books and scholarships
- Study materials on the PSAT, SAT and ACT
- Computers that are programmed to print information on two-year and four-year college, trade schools, financial aid, career interest survey.
Graduation Requirements

Graduation from West Mifflin Area High school requires satisfactory completion of a minimum of 24 credits* in grades nine through twelve.

Any class that meets five days a week for the entire term of 183 days is considered one credit. Any class that meets five days a week for one semester of 91 days is considered one-half credit. Other courses that do not meet five days a week are adjusted for credit value. Each student is required to complete the following courses:

- English………………………………………4 credits (does not include .5 credit, elective courses)
- Social Studies…………………………4 credits
- Mathematics…………………………………3 credits
- Science………………………………………3 credits
- Physical Education/Health………………2 credits (*defined as .5 credit/year for four years)
- Electives……………………………………8 credits

All courses taken for credit will be included in class rank except for physical education and any course graded on a pass/fail basis. Arts and humanities include courses in the areas of fine and practical arts, foreign language, literature and additional social studies. These courses must be taken in addition to the required courses. Students may be required to complete a more enriched program if their goal mandates this completion. For example, students who wish to complete a pre-college level program with an emphasis on math and science may be required to complete four years of math and an advanced science course. Students who want an enriched humanities curriculum may complete five units of language arts and/or five units of social studies. The goal selected will dictate the program.

Additional Provisions

Students with disabilities may meet the graduation requirements specified above or may graduate upon satisfactorily completing a special education program developed by an Individualized Education Program team under the Individuals with Disabilities Education Act.
## Planning Guide

The following program of study is offered as a model for a four-year sequence in a nine-period day. It is not the only model that could lead to graduation:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>English</td>
<td>English</td>
<td>English</td>
<td>English</td>
</tr>
<tr>
<td>2</td>
<td>Civics</td>
<td>World History</td>
<td>US History</td>
<td>Soc Stud Elective</td>
</tr>
<tr>
<td>3</td>
<td>Mathematics</td>
<td>Mathematics</td>
<td>Mathematics</td>
<td>Mathematics (Recommended)</td>
</tr>
<tr>
<td>4</td>
<td>Science</td>
<td>Science</td>
<td>Science</td>
<td>Science (Recommended)</td>
</tr>
<tr>
<td>5</td>
<td>Freshmen Seminar**</td>
<td>Physical Educ (Semester)</td>
<td>Physical Educ (Semester)</td>
<td>Physical Educ (Semester)</td>
</tr>
<tr>
<td>6</td>
<td>Elective or Foreign Lang</td>
<td>Elective or Foreign Lang</td>
<td>Elective or Foreign Lang</td>
<td>Elective or Foreign Lang</td>
</tr>
<tr>
<td>7</td>
<td>Exploratory Cluster</td>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>8</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>9</td>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

**The Freshmen Seminar is a yearlong course that includes Physical Education/ Health/ Careers and STEM Careers required for all ninth-grade students.**

### Keystone Exam Graduation Requirement

Effective beginning with the Class of 2019, any student who graduates from the West Mifflin Area School District, must demonstrate minimum competency skills in the areas of math, reading, and writing. Demonstrating these minimum competencies can be achieved through the following means: Earning an Advanced or Proficient rating on the Keystone by the junior year.

**Non-Proficient Student – Keystone Exams**

Beginning in 2019-2020, high school students in the Classes of 2020, and thereafter, who have not demonstrated proficiency on the Keystone exam for Algebra I, Literature, and Biology will have the option of obtaining remediation from the district.
Diplomas

Beginning with the Class of 2010, two types of diplomas may be issued to our students.

1. Regular Diploma – Awarded to those students who meet the academic requirements of the school district.
2. Honors Diploma - Awarded to students who meet the following criteria:
   - Maintain a 3.1 GPA
   - Earn a minimum of 26 credits
   - Earn proficient rating on all three Keystone Assessment areas (Math, Writing, Biology) or score above the college readiness benchmark on the SAT or ACT exams
     ▪ SAT - 1010 minimum Combined score – Math/Critical Reading/Writing
     ▪ ACT - 23 minimum Composite score
   - Successfully complete at least three AP courses
   - Successfully complete four years (credits of Mathematics with the final year being at least Trigonometry, Algebra III, or Calculus
   - Successfully complete four years of Science with at least one course being advanced, honors or AP

Grade Classification

In order for a student to be considered a member in proper academic standing of his/her next year’s class:

- Freshman (Grade 9) – Must have completed a minimum of 6 credits to be considered a sophomore.
- Sophomore (Grade 10) – Must have completed a minimum of 12 credits to be considered a junior.
- Junior (Grade 11) – Must have completed a minimum of 18 credits to be considered a senior.
- Senior (Grade 12) – Must complete a minimum of 24 credits to graduate.
REPORT CARDS AND GRADING SYSTEM

Report cards are issued every nine weeks. These reports show your progress in school. The marking system represents five levels of achievement. These levels indicate a student’s achievement as compared to the criterion established for the course involved. Success breeds success. Students should set a goal and work to attain it.

90 – 100  A
80 -  89   B
70 -  79   C
60 -  69   D
0 -  59    F

HONOR ROLL

Students with outstanding academic achievement are to be placed on the honor roll. Each nine-week period a new honor roll is to be posted. Its purpose is:

A. To give recognition and to dignify scholastic achievement
B. To give motivation and incentive to students.

Physical education grades are not calculated into class rank or honor roll, but any class including physical education with a grade below “C” will eliminate a student from the Honor Roll.

Honor courses are weighted as follows:  A = 4.5  B = 3.5  C = 2.5  D = 1.5  F = 0

Advanced-Placement courses are weighted as follows:  A = 5  B = 4  C = 3

All other courses are as follows:  A = 4  B = 3  C = 2  D = 1  F = 0

A student will not be considered for the honor roll if he has an incomplete or X grade. All incomplete grades must be removed from the report card within two weeks or they become F’s.

High Honor:  Quality Point Average 3.75 or above
Honor:  Quality Point Average 3.1 to 3.749

Every quarter report cards are distributed and honor rolls are posted.
HOW TO CALCULATE HONOR ROLL

Honor Roll is calculated in the following way:

1. Total your credits for the grading period;
2. Total your quality points, per grade - as attached to each credit (i.e., full points, per letter grade are awarded for a full credit course - while ½ the points are awarded for ½ credit course);
3. Divide your total quality points by the total number of credits - the result equals your grade point average.

Please Note: High Honors - 3.7 & above
Honors - 3.1
No student is eligible for Honor Roll if a D, F or I grade appears on the report card
Grades are not rounded up. (i.e., a 2.90 is not rounded to 3.0)

Quality points are assigned as follows:

1. One credit subjects - A = 4, B = 3, C = 2, D = 1, F = 0
2. Half credit subjects - A = 2, B = 1 ½, C = 1, D = ½, F = 0
3. One credit Honors subjects - A = 4.5, B = 3.5, C = 2.5, D = 1.5, F = 0
4. One credit AP subjects - A = 5, B = 4, C = 3, D = 2, F = 0

Example A
If a student has 18 quality points and 6 credits - divide 18 by 6 and the grade point average = 3.00.

Example B
Mock Report Card – Final GPA

<table>
<thead>
<tr>
<th>Credit</th>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>History</td>
<td>1</td>
<td>B</td>
</tr>
<tr>
<td>Math</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>Science/Chem.</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>Drawing</td>
<td>.5</td>
<td>A</td>
</tr>
<tr>
<td>PE</td>
<td></td>
<td>A</td>
</tr>
</tbody>
</table>

**4.5** 16

Grade Point Average = 3.55
DUAL ENROLLMENT / COLLEGE IN THE HIGH SCHOOL

Dual Enrollment Programs and College in the High School Programs allow qualified students to take college courses while enrolled in high school. Credits are accepted by most colleges nationwide, making the programs a great way for students to get a jump start on a college degree.

COLLEGE IN HIGH SCHOOL CLASSES (CHS)

La Roche University Scholars Program / College in High School

HS0222  CHS/AP UNITED STATES HISTORY  Grade: 11
One Year – 5 Periods  1 credit- AP weight
La Roche University Scholars Program Eligible – Earn up to 6 College Credits

Prerequisites: Students must receive a final grade of “A or B” in World History with teacher recommendation.

AP United States History focuses on developing students’ abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance — identity; peopling; politics and power; work, exchange, and technology; America in the world; environment and geography; and ideas, beliefs, and culture— provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places.
This is weighted course. (An added value of 1.0 will be added to the quality point average per grade. Example: A = 5.0, B = 4.0, C = 3.0, etc.)

Students in this course have the opportunity to earn college credit for a reduced fee through the Scholars Program at La Roche.

HS0234  CHS/AP PSYCHOLOGY
Grade: 12
One year – 5 periods  1 credit-AP weight
La Roche University Scholars Program Eligible – Earn up to 3 College Credits

Prerequisites: Students must receive a final grade of “A or B” in AP or United States History with teacher recommendation.

Advanced Placement Psychology is an advanced introduction to Psychology course. With a heavy emphasis on reading, writing, and critical thinking, this course is designed for those students with a solid background in these areas. Advanced Psychology will be a fast paced, higher level social studies class which will satisfy the Social Study requirement in the senior year. The comparing and contrasting of modern and historical psychological theory will be the core of the curriculum. Students will be required to write a number of college style papers, and to
debate controversial psychological topics. In addition, sensory and perceptual processes of the human being will be studied.

This is weighted course. (An added value of 1.0 will be added to the quality point average per grade. Example : A = 5.0, B = 4.0, C = 3.0, etc.)

**HS0390 COLLEGE ALGEBRA (CHS)**

Grades 10, 11, 12  
One year – 5 periods  
Prerequisites: Teacher recommendation and a final grade of at least a “C” in Algebra II.

This course is one that follows the curriculum of a college freshman mathematics course. It is designed for those students who have successfully completed the courses of Algebra I, Algebra II and Geometry. It is also recommended to those students that may need to reinforce their algebra skills while or before taking Pre-Calculus and Trigonometry or Calculus. This course is also recommended for college-bound students not planning on being a math or science major.

*Scholar Credit Eligible (pending)*

**University of Pittsburgh**

**HS0424 COLLEGE IN HIGH SCHOOL (CHS) CHEMISTRY**  
Grades 11, 12  
5 periods + lab period on alternate days  
1.5 credits – AP weight

Prerequisites: “A or B” in Honors Chemistry and “A or B” in Algebra II  
Student must be enrolled in Honors or Academic Physics

This course is a college General Chemistry I course offered through the University of Pittsburgh’s College in High School program. Topics covered include atomic theory, molarity, gases and kinetic theory, thermochemistry, electronic structure and the periodic table, relationships between phases, ionic solution, redox reactions, and thermochemistry. Problem solving and laboratory experiences are key components of this course. Five laboratory experiments will be performed at Pitt’s Department of Chemistry facilities. Students will take three university-prepared exams, as well as a comprehensive final exam taken at the University. Students who successfully complete the CHS Chemistry course will receive four credits from the University of Pittsburgh. There is a fee of $348 for this course and financial aid is available. Students intending to pursue careers in Science, Engineering, or Medicine-related fields should enroll in this course.
PHYS 0174: BASIC PHYSICS FOR SCIENCE AND ENGEINEERING 1
Credits – 4 credits from Pitt  1.5 AP weight from WM

This course is the equivalent of an introductory, calculus-based, college physics course offered at the University of Pittsburgh. This course will focus mainly on classical mechanics but will also touch upon wave motion and thermodynamics. The emphasis of the course is on problem solving and applications of physics concepts. There will be four exams administered throughout the course; these are written and distributed by the University of Pittsburgh. The cost for the course is approximately $300 for four (4) credits and financial aid is available through the university. Any student intending to pursue a career in mathematics, science or engineering will find this course essential. Financial assistance is available.

HS0440 COLLEGE IN HIGH SCHOOL (CHS) PHYSICS
5 periods + lab period on alternate days  1.5 credits - AP Weight

Prerequisites: “A or B” in Honors Physics or “A” in Academic Physics.
“A or B” in Calculus (can be concurrently enrolled in Calculus)

This course is the equivalent of an introductory, calculus-based, college physics course offered at the University of Pittsburgh. This course will focus mainly on classical mechanics but will also touch upon wave motion and thermodynamics. The emphasis of the course is on problem solving and applications of physics concepts. There will be four exams administered throughout the course; these are written and distributed by the University of Pittsburgh. The cost for the course is $300 for four credits and financial aid is available through the university. Any student intending to pursue a career in mathematics, science or engineering will find this course essential.

Carlow University

HS0435 COLLEGE IN HIGH SCHOOL (CHS) ANATOMY AND PHYSIOLOGY
5 periods + lab period on alternate days  Grades 11, 12
1.5 credits - AP Weight

Prerequisites: “A, B, or C” in Honors Chemistry and Honors Biology
Recommended: CHS Biology and/or Honors Physics

CHS Anatomy and Physiology is a college course offered through Carlow University’s College in High School Program. The students will examine the anatomy and physiology of the systems of the body. The relationship between structure and function and the concept of homeostasis are emphasized. Attention will be given to case studies and application of basic anatomical and physiological facts. Dissections will be performed to incorporate and enhance material discussed in lecture. There will be two trips during the year to Carlow University’s cadaver lab where the viewing of cadavers and cadaver specimens will occur. This course is designed for students with a strong interest in the human body and/or health related careers that require at least a four -year degree. Cost of the course will be $300 per semester, with no financial aid being offered.
Students may earn up to eight credits through this course. The course is suggested to be taken after Honors Biology and Honors Chemistry. It is also suggested that students have taken or are taking Honors Physics and/or CHS Biology.

Seton Hill University

**HS0422  COLLEGE IN HIGH SCHOOL (CHS) BIOLOGY**

Grades 11, 12

5 periods + lab period on alternate days

1.5 credits - AP Weight

**Prerequisites:** “A or B” in Honors Biology or Honors Chemistry or Honors Physics and “A or B” in Algebra II

This course is a college Organismal Biology course offered through Seton Hill University’s College in High School program. This course will cover key concepts of biological science including those from the disciplines of anatomy, ecology, evolution, genetics, molecular biology, physiology, and systematics. The laboratory component of the course will introduce students to basic biological concepts through hands-on learning and the application of scientific methods while focusing on the evolution of prokaryotes and eukaryotes and the diversity of plants and invertebrate animals. Students who successfully complete the CHS Biology course will receive four credits from Seton Hill University. There is a fee of $225 for this course and financial aid is available. Students planning careers in science, medicine, biomedical engineering, microbiology or biochemistry should consider this course.
### RECOMMENDED TIMETABLE FOR COLLEGE ADMISSION TESTING

<table>
<thead>
<tr>
<th>Time Period</th>
<th>Test/Exam</th>
<th>Details</th>
</tr>
</thead>
</table>
| Fall, Sophomore/Junior Year         | P.S.A.T./N.M.S.Q.T.                                                      | • Practice Test for SAT  
• Designed for Juniors (can be taken by Sophomores who are accelerated in math and English courses)  
• Assesses aptitude in area of verbal, writing and numerical reasoning and writing skills.  
• Provides academically talented juniors an opportunity to compete for scholarship awards offered by National Merit Scholarship Corporation if taken in their junior year. |
| Spring Junior Year, Fall Senior Year | S.A.T. / A.C.T.                                                          | • Assesses aptitude in area of verbal, writing and numerical reasoning  
• Can be taken multiple times                                                                                                                   |
NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA)

ELIGIBILITY STANDARDS
In order to participate in a Division I or Division II sport in college, a student must meet the minimum requirements for core courses established by the NCAA
For more information.... http://fs.ncaa.org/Docs/eligibility_center/Quick_Reference_Sheet.pdf

NCAA DIVISION I ACADEMIC REQUIREMENTS
College-bound student-athletes first enrolling at an NCAA Division I school on or after Aug. 1, 2018, need to meet new academic rules to practice, compete and receive athletics scholarships during their first year.

NCCA DIVISION II ACADEMIC REQUIREMENTS
College-bound student-athletes first enrolling at an NCAA Division II school on or after Aug. 1, 2018, need to meet new academic rules to practice, compete and receive athletics scholarships during their first year.

FOR MORE SPECIFIC INFORMATION, PLEASE VISIT WWW.NCAA.ORG

<table>
<thead>
<tr>
<th>DIVISION I 16 CORE-COURSE RULES</th>
<th>DIVISION II 16 CORE-COURSE RULES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>16 Core Courses:</strong></td>
<td><strong>16 Core Courses:</strong></td>
</tr>
<tr>
<td>4 Years of English</td>
<td>3 Years of English</td>
</tr>
<tr>
<td>3 Years of Mathematics (Algebra I or higher)</td>
<td>2 Years of Mathematics (Algebra I or higher)</td>
</tr>
<tr>
<td>2 Years of Natural/Physical Science (1 year of lab if offered)</td>
<td>2 Years of Natural/Physical Science (1 year of lab if offered)</td>
</tr>
<tr>
<td>1 Year of additional English, Mathematics or Natural/Physical Science</td>
<td>3 Years of additional English, Mathematics or Natural/Physical Science</td>
</tr>
<tr>
<td>2 Years of Social Science</td>
<td>2 Years of Social Science</td>
</tr>
<tr>
<td>4 Years of additional courses (from any of the above, World Language or comparative Religion/Philosophy)</td>
<td>4 Years of additional courses (from any of the above, World Language or comparative Religion/Philosophy)</td>
</tr>
</tbody>
</table>

**PLEASE NOTE:** If you are planning to participate in a Division I or Division II sport in college, please see your counselor prior to scheduling you courses.
GUIDELINES FOR COURSE SELECTION
2020/2021 SCHOOL YEAR

Items to remember as your student selects courses for the 2020/2021 school year:

1) Students who plan on attending a four-year college after high school are strongly encouraged to take at least three years of a foreign language, obtain a working knowledge of computers and technology and enroll in a mathematics course in their senior year of high school. Students who plan on continuing their formal education at a two-year or four-year degree granting institution are strongly encouraged to take the SAT or ACT exam during their junior year.

2) All 11th grade students will be required to complete a semester (.5 credit) Junior Seminar course.

3) Course of studies booklets and course selection sheets should be available during the month of February online at www.wmasd.org/highschool as well as through Schoology.

4) Physical education must be taken each year of high school.

5) Course requests can be changed at the request of the student or parent. These changes will be honored when possible until the counselors leave for the summer. Students may not choose teachers or change course sections to avoid instructors. Parents can only request a change in instructor if a student has previously failed a specific subject and is scheduled to be taught by the same teacher.

Course changes that are made after the allotted days will result in a “withdraw fail” for the course.

Students should choose a sufficient number of courses. Students who have more than one study hall a day (5 per week) must enroll in additional courses. Students enrolled in lab courses may be allowed up to eight study halls in any given week. Students must enroll in a course if they drop a course.

Ideally, a student would be enrolled in six or seven courses in a school year.

6) A one-credit career internship course as well as a non-credit work release program is available for our senior students. Application for the program must be made through their guidance counselor and the office of the principal. Senior students may earn elective credits if they are completing their graduation requirements and wish to explore career options.
NINTH GRADE COURSE OFFERINGS
Must schedule 8 credits – all classes 1 credit unless otherwise noted

ENGLISH (one required)
HS0124 English 9
HS0125 English 9 Honors***

SOCIAL STUDIES (one required)
HS0206 Civics and Government
HS0207 Civics and Gov Honors***

MATH* (one required) ***
HS0089 Math 9
HS0335 Prealgebra
HS0342 Algebra II Honors (from Geometry)
HS0343 Algebra I
HS0350 Academic Geometry (from Algebra I)

SCIENCE (one required)
HS0418 Biology
HS0415 Honors Biology w/lab (1.5)

SEMINAR (required)
HS0171 Freshman Seminar
Phys. Ed. (12 Weeks)
Health (12 Weeks)
Careers/Titan Transition (6/6 = 12 Weeks)

EXPLORATORY ELECTIVE (Required*)
HS0173 Exploratory- 9 week rotation
HS0170 ACE *** (.5)

ELECTIVES
HS0177 Social Media- (.5)

Students who do not receive Proficient or Advance on the eighth grade PSSA Reading or Math exams may be scheduled for a semester long remediation course during their freshman year, worth one-half elective credit.

HS0171 Freshmen Seminar *Required for ninth grade students

The Freshmen Seminar course is designed to teach social and behavioral expectations as well as allow students to experience career development and begin the development of a career portfolio. The Freshmen Seminar will consist of the following courses on a rotating basis:

12 weeks – Physical Education
12 weeks – Health
6 weeks – Career Awareness
6 weeks – Titan Transition

The Exploratory course is still highly recommended for those students involved in Band, Chorus, and/or Orchestra if their schedule permits. The Exploratory course is designed to allow the ninth grade students an opportunity to experience a variety of elective offering throughout the school year. By experiencing the various electives, students will be able to better select the electives that will best prepare them for their selected career cluster.

Special Education
Special education students will have an individual educational program (IEP) established for them annually and will be required to follow that program. An IEP will only be developed after agreement is achieved between parent, student, teacher, counselor and principal.

A.C.E
Gifted students will be required to schedule HS0170 ACE to develop an individualized program to challenge student interests and motivation.
TENTH GRADE COURSE OFFERINGS

ENGLISH
HS0133 English 10
HS0131 English 10 Academic
HS0146 English 10 Pre-AP

SOCIAL STUDIES
HS0212 World Cultures
HS0240 AP World History

MATH - all courses require teacher rec
HS0082 Math 10
HS0343 Algebra I
HS0346 Algebra II (9/10)
HS0306 Academic Algebra II
HS0348 Geometry
HS0305 Academic Geometry
HS0390 College Algebra
HS0356 Honors Pre-Calculus

SCIENCE
HS0425 Chemistry
HS0429 Acad Chem w/lab (1.5)
HS0427 Honors Chem w/lab (1.5)

PHYSICAL EDUCATION
HS0915 Phys. Ed.

ELECTIVES
English
HS0177 Social Media (0.5)
HS0163 Public Speaking (0.5)
HS0164 Intro to Debate (0.5)
HS0165 African-Amer. Lit.- (0.5)
HS0167 Journalism- (0.5)
HS0175 Young Adult Lit. - (0.5)
HS0176 Film as Literature (0.5)

Social Studies
HS0235 Criminal Justice (0.5)
HS0230 World Geography (0.5)
HS0236 Mythology (0.5 cr.)
HS0244 Kings & Queens of Europe (0.5)
HS0242 AP Comp. Gov't.(0.5)
HS0251 Current Events (0.5)
HS0248 Ancient Civilizations (0.5)
HS0249 Mock Trial (0.5)
HS0250 History through Film (0.5)
HS0245 African Amer. Hist.(0.5)

Math
HS0375 Intro to Java (0.5)

Science
HS0450 Intro to Astronomy (0.5)
HS0451 Zoology (0.5)
HS0452 Health Professions
Preview (0.5)
HS0453 Forensic Science (0.5)

Languages
HS0515 German 1 (0.5)
HS0518 German 2 (0.5)
HS0520 German 2 Honors (0.5)
HS0534 Spanish 1 (0.5)
HS0537 Spanish 2 (0.5)
HS0538 Spanish 2 Honors (0.5)
HS0541 Spanish 3 Honors (0.5)

Business
HS0604 Intro to Business (0.5)
HS0606 Accounting I (0.5)
HS0609 Accounting II (0.5)
HS0610 Accounting III (1 cr)
HS0612 Business Law (0.5)
HS0620 Labor Employment Law (0.5)
HS0617 Personal Finance (0.5)
HS0613 Entrepreneurship (0.5)

Fine Arts
HS0712 Basic Art (0.5)
HS0711 Ill & Mixed Media (0.5)
HS0704 Crafts (0.5)
HS0707 Art History (0.5)
HS0703 2D design (0.5)
HS0706 3D design (0.5)
HS0700 Drawing I (0.5)
HS0701 Painting (0.5)
HS0715 Concert Band
HS0716 Wind Ensemble-by audition
HS0718 Titan Chorale
HS0720 Show Choir-by audition
HS0721 Concert Choir
HS0724 Orchestra
HS0731 Theater Technology I
HS0736 Theater Technology II
HS0732 Drama I
HS0733 Drama II
HS0734 Music Theory

Music
HS0741 Music Technology I (Rock Band Basics)
HS0742 Music Technology II (Recording & Arranging)
HS0742 Music Technology III (Writing & Recording)

Family & Cons Science
HS0805 Foods and Nutr I (0.5)
HS0825 Foods and Nutr II (0.5)
HS0803 Culinary Arts I (0.5)
HS0804 Culinary Arts II (0.5)
HS0821 Child Dev Parenting (0.5)
HS0824 Child Dev Children (0.5)
HS0820 Fashion Int Design (0.5)

Air Force JROTC
HS0901 Aerospace Science

Health
HS0917 Lifestyles in Health (0.5)
HS09018 Partners in PE (0.5)

Technology Education
HS0874 Manufacturing I
HS0865 Manufacturing II
HS0867 Intro to Robotics (0.5)
HS0868 Robotics I
HS0877 Intro to CADD (0.5)
HS0871 CADD I
HS0880 Intro to Graphics (0.5)
HS0853 Graphics I (0.5)
HS0854 Graphics. II (0.5)
HS0852 Apparel Design (0.5)
HS0750 Yearbook Design
HS0888 Titan TV I
HS0883 Titan TV I (.5cr/Sem)
HS0889 Titan TV II
HS0893 Digital Photography (.5)
HS0898 Computer Animation (.5)
HS0840 Retail Production & Entrepreneurship

Misc
HS0170 Gifted - A.C.E.

Steel Center Vo-Tech (3 credits)
Steel Center Application Required.
### ELEVENTH GRADE COURSE OFFERINGS

#### Math
- HS0375 Intro to Java
- HS0378 AP Java
- HS0330 Workforce Math

#### Science
- HS0434 Anat & Phys w/lab (1.5)
- HS0435 CHS A& P w/lab (1.5)
- HS0422 CHS Biology w/lab (1.5)
- HS0424 CHS Chem w/Lab (1.5)
- HS0445 Biochemistry (.5)
- HS0446 Microbiology (.5)
- HS0447 Genetics (.5)
- HS0448 Materials Sci. (.5)
- HS0443 Makerspace Sci. (.5)
- HS0449 Food Chemistry (.5)
- HS0450 Intro to Astronomy (.5)
- HS0451 Zoology (.5)
- HS0452 Health Professions (.5)
- HS0453 Forensic Science (.5)

#### Language
- HS0515 German 1
- HS0518 German 2
- HS0520 German 2 Honors
- HS0521 German 3 Honors
- HS0534 Spanish 1
- HS0537 Spanish 2
- HS0538 Spanish 2 Honors
- HS0541 Spanish 3 Honors
- HS0543 Spanish 4 Honors

#### Business & Info Technology
- HS0604 Intro to Business (.5)
- HS0606 Accounting I (.5)
- HS0609 Accounting II (.5)
- HS0610 Accounting III
- HS0612 Business Law (.5)
- HS0620 Labor Employment Law (.5)
- HS0617 Personal Finance (.5)
- HS0613 Entrepreneurship (.5)

#### Fine Arts
- HS0712 Basic Art (.5)
- HS0711 Illus & Mixed Media (.5)
- HS0704 Crafts (.5)
- HS0707 Art History (.5)
- HS0703 2D design (- .5)
- HS0706 3D design (- .5)
- HS0700 Drawing I (- .5)
- HS0701 Painting (- .5)
- HS0709 Art III
- HS0715 Concert Band
- HS0716 Wind Ensemble-by aud
- HS0718 Titan Chorale

- HS0720 Show Choir-by audition
- HS0721 Concert Choir
- HS0724 Orchestra
- HS0731 Theater Technology I
- HS0736 Theater Tech II
- HS0732 Drama I
- HS0733 Drama II
- HS0734 Music Theory
- HS0741 Modern Band I (.5)
- HS0742 Modern Band II (.5)

#### Family & Consumer Science
- HS0805 Foods and Nut I (.5)
- HS0825 Foods and Nut II (.5)
- HS0803 Culinary Arts I (.5)
- HS0804 Culinary Arts II (.5)
- HS0821 Child Dev Parenting (.5)
- HS0824 Child Dev Children (.5)
- HS0822 Child Dev Lab (1.0)
- HS0820 Fashion & Int Desig (.5)

#### Technology Education
- HS0874 Manufacturing I
- HS0865 Manufacturing II
- HS0864 Manufacturing III
- HS0867 Intro to Robotics (.5)
- HS0868 Robotics
- HS0877 Intro to CADD (.5)
- HS0871 CADD I
- HS0880 Intro to Graphics (.5)
- HS0853 Graphic I (.5)
- HS0854 Graphic II (.5)
- HS0892 Graphic Comm. III
- HS0852 Apparel Design (.5)
- HS0750 Yearbook Design
- HS0888 Titan TV I
- HS0883 Titan TV I Sem (.5)
- HS0889 Titan TV II
- HS0893 Digital Photo (.5)
- HS0898 Computer Animate (.5)
- HS0840 Retail Prod & Entrep

#### Health
- HS0917 Lifestyles in Health (.5)
- HS0916 Fitness Enhance (.5)
- HS09018 Partners in PE (.5)

#### Air Force Rotc
- HS9001 Aerospace Science

#### Additional
- HS0170 A.C.E. (¼ credit)***
- HS**** Steel Center Vo-Tech- (3 credits) First year – Applications Required
- HS09005 Dual Enrollment
ENGLISH
HS0153  English 12
HS0154  English 12 Academic
HS0111  Eng. 12- AP Lit/Comp

SOCIAL STUDIES
HS0227  Economics
HS0232  Sociology
HS0233  Psychology
HS0234  AP Psychology***
HS0229  CHS AP Psychology***

MATH
HS0348  Geometry
HS0305  Academic Geometry
HS0345  Algebra II 11/12
HS0306  Academic Algebra II
HS0390  College Algebra (CHS)
HS0355  Pre-Calculus and Trig
HS0371  AP Calculus AB
HS0374  AP Calculus BC
HS0382  Probability and Stats
HS0384  AP Prob and Stats
HS0330  Workforce Math

SCIENCE
HS0434  Anat & Phys w/lab (1.5)
HS0435  CHS A&P w/lab (1.5)
HS0424  CHS Chem w/ Lab (1.5)
HS0440  CHS Physics/ lab (1.5)
HS0433  Physical Science

PHYSICAL EDUCATION
HS0915  Phys. Ed. (.5)
HS0916  Fitness Enhance (.5)
HS09018  Partners in PE (.5)

ELECTIVES
English
HS0177  Social Media- (.5)
HS0163  Public Speaking (.5)
HS0164  Intro to Debate (.5)
HS0167  Journalism- (.5)
HS0165  African-Am. Lit- (.5)
HS0175  Young Adult Lit. - (.5)
HS0176  Film as Literature (.5)

Social Studies
HS0235  Criminal Justice (.5)
HS0230  World Geography (.5)
HS0236  Mythology (.5 cr.)
HS0244  Kings & Queens of Europe (.5)
HS0242  AP Comp. Gov't.(.5)
HS0251  Current Events (.5)
HS0248  Ancient Civilizations (.5)
HS0249  Mock Trial (.5)

TWELFTH GRADE COURSE OFFERINGS
HS0250  History in Film (.5)
HS0245  African Amer. Hist (.5)
HS0246  Native Amer. Hist (.5)
HS0247  Criminal Minds (.5)

MATH
HS0375  Intro to Java
HS0378  AP Java

SCIENCE
HS0446  Microbiology (.5)
HS0447  Genetics (.5)
HS0448  Materials Sci. (.5)
HS0443  Makerspace Sci. (.5)
HS0449  Food Chemistry (.5)
HS0450  Intro to Astronomy (.5)
HS0451  Zoology (.5)
HS0452  Health Professions (.5)
HS0453  Forensic Science (.5)

LANGUAGES
HS0515  German 1
HS0518  German 2
HS0520  German 2 Honors
HS0521  German 3 Honors
HS0523  German 4
HS0534  Spanish 1
HS0537  Spanish 2
HS0538  Spanish 2 Honors
HS0541  Spanish 3 Honors
HS0543  Spanish 4 Honors
HS0544  AP Spanish

BUSINESS & INFO TECH
HS0604  Intro to Business (.5)
HS0606  Accounting I (.5)
HS0609  Accounting II (.5)
HS0610  Accounting III
HS0612  Business Law I (.5)
HS0620  Labor Employment Law (.5) credits
HS0617  Personal Finance (.5)
HS0613  Entrepreneurship (.5)

FINE ARTS
HS0712  Basic Art (.5)
HS0711  Illus & Mixed Media (.5)
HS0704  Crafts (.5)
HS0707  Art History (.5)
HS0703  2D design(-.5)
HS0706  3D design (-.5)
HS0700  Drawing I(-.5)
HS0701  Painting(-.5)
HS0709  Art III
HS0710  Art IV
HS0715  Concert Band
HS0716  Wind Ensemble
HS0718  Titan Chorale
HS0720  Show Choir
HS0721  Concert Choir
HS0724  Orchestra
HS0731  Theater Technology I
HS0736  Theater Tech II
HS0732  Drama I
HS0733  Drama II
HS0734  Music Theory
HS0741  Modern Band I (.5)
HS0742  Modern Band II (.5)

FAMILY CONSUMER SCIENCES
HS0805  Foods and Nut I (.5)
HS0825  Foods and Nut II – (.5)
HS0803  Culinary Arts I (.5)
HS0804  Culinary Arts II (.5)
HS0821  Child Dev Parenting (.5)
HS0824  Child Dev Children (.5)
HS0822  Child Dev Lab (1.0)
HS0820  Fashion & Int Design (.5)

PHYSICAL EDUCATION/HEALTH
HS0916  Fitness Enhance (.5)
HS0917  Life in Health (.5)
HS09018  Partners in PE (.5)

TECHNOLOGY EDUCATION
HS0874  Manufacturing I
HS0865  Manufacturing II
HS0864  Manufacturing III
HS0867  Intro to Robotics (.5)
HS0868  Robotics
HS0877  Intro to CADD (.5)
HS0871  CADD I
HS0880  Intro to Graphics (.5)
HS0853  Graphic I (.5)
HS0854  Graphic II (.5)
HS0892  Graphic III
HS0852  Apparel Design (.5)
HS0750  Yearbook Design
HS0888  Titan TV I
HS0883  Titan TV I Sem (.5cr)
HS0889  Titan TV II
HS0893  Digital Photo (.5)
HS0898  Comp Animation (.5)
HS0840  Retail Production & Entrepreneur

AIR FORCE JROTC
HS9001  Aerospace Science

MISCELLANEOUS
HS0170  A.C.E. (.5)
HS0998  Early Work Release
HS0995  Student Secretary
HS0905  Dual Enrollment
HS0996  Career Intern/ELP
HS2***  Steel Center - (3 credits)
ENGLISH
4 CREDITS REQUIRED FOR GRADUATION

The English curriculum from grades 9-12 is designed to make students more proficient in all aspects of communication. Through a variety of course offerings and teaching techniques, the students will improve their language usage and vocabulary development, their writing abilities and public speaking skills, their research skills, and their overall literacy.

HS0124 ENGLISH 9
One year - 5 periods
Grade 9
1 credit

Prerequisite: Passing grade in an English 8 course

The ninth-grade course of study is designed to refine oral and written communication skills taught in previous grades. The main objective of the course is to become proficient in the standard usage of spoken and written English through the study of grammar, writing, and literature. Coursework will focus on the PA Common Core Standards, and assessments will include a variety of writings, quizzes, projects, tests, and homework.

All freshmen are required to complete a library literacy unit, taught by the Library Information Specialist, which focuses on the research process, plagiarism, and MLA documentation.

HS0125 ENGLISH 9 HONORS
One year- 5 periods
Grade 9
1 credit – Honors weight

Note: This course entitles students to an extra .5 quality point.

Prerequisite: Above-average grades in English 8 Honors or superior grades in English 8 and teacher recommendation

The ninth-grade Honors English course is designed to refine oral and written communication skills taught in previous grades. The rigor of this course requires students to become independent, self-motivated learners. The main objective of this challenging course is to improve critical reading and writing skills that are essential for students who plan to take AP-level courses throughout high school. Coursework will focus on the PA Common Core Standards, and assessments will include a variety of writings, quizzes, projects, tests, and homework.

All freshmen are required to complete a library literacy unit, taught by the Library Information Specialist, which focuses on the research process, plagiarism, and MLA documentation.

This course may require students to complete a summer assignment.
**HS0133  ENGLISH 10**
One year - 5 periods

**Prerequisite:** Passing grade in an English 9 course

Students will critically read and respond to a variety of genres, both fiction and non-fiction, from around the world. Instruction emphasizes study skills and critical thinking skills.

Coursework will focus on the PA Common Core Standards to prepare students to successfully pass the Keystone Literature Exam at the conclusion of their sophomore year. Assessments will include a variety of writings, quizzes, projects, tests, and homework.

All sophomores are required to complete a library literacy unit, taught by the Library Information Specialist, which focuses on the research process, plagiarism, and documentation using the MLA format for writers of research papers.

**HS0131  ENGLISH 10 ACADEMIC**
One year - 5 periods

**Prerequisite:** Above-average grades an English 9 course and teacher recommendation

Students taking this course will be expected to read independently; including novels, short stories, poetry, and non-fiction.

Through the study of world literature, the students learn to interpret, analyze, discuss, and write about the ideas of others. Instruction emphasizes advanced study skills and thinking skills.

Coursework will also address the PA Common Core Standards to prepare students to successfully pass the Keystone Literature Exam at the conclusion of their sophomore year. Assessments will include a variety of writings, quizzes, projects, tests, and homework.

All sophomores are required to complete a library literacy unit, taught by the Library Information Specialist, which focuses on the research process, plagiarism, and documentation using the MLA format for writers of research papers.
**HS0146 ENGLISH 10 PRE-AP**

Grade 10

One year - 5 periods

1 credit – Honors weight

**Note:** This course entitles students to an extra .5 quality point.

**Prerequisite:** Above-average grades English 9 Honors or superior grades in English 9 and teacher recommendation

This challenging course is intended for sophomores who are strongly considering the advanced placement course offerings in the English department during their junior and senior years. The curriculum fosters the development of critical reading and writing skills and promotes self-directed, independent study skills. As a precursor to future AP English courses, emphasis will be placed on the mastery of the PA Common Core Standards as well as the introduction of AP-style testing strategies and concepts. Coursework will also prepare students to successfully pass the Keystone Literature Exam at the conclusion of their sophomore year.

All sophomores are required to complete a library literacy unit, taught by the Library Information Specialist, which focuses on the research process, plagiarism, and documentation using the MLA format for writers of research papers.

*This course may require students to complete a summer assignment.*

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**HS0140 ENGLISH 11**

Grade 11

One year - 5 periods

1 credit

**Prerequisite:** Passing grade in an English 10 course

Students will read critically and respond to a variety of fiction and non-fiction from the canon of American literature. This course will afford students an opportunity to interpret and analyze American literature by means of classroom discussion and written composition.

Writings will include narrative, persuasive, descriptive, expository, and creative.

Emphasis will be placed on refining skills often assessed on placement exams and college-entrance exams.
**HS0143  ENGLISH 11 ACADEMIC**  
Grade 11  
One year – 5 periods  
1 credit

**Prerequisite:** Above-average grades in an English 10 course and teacher recommendation

Students will study American literature from several genres as a means to improve skills in both written and oral communication. Through the survey of American prose and poetry, students will continue to cultivate critical reading and analytical writing competencies.

Students taking this course will be expected to read independently; including novels, short stories, poetry, and non-fiction.

Emphasis will be placed on refining skills often assessed on placement exams and college-entrance exams.

**HS0110  ENGLISH 11 AP/CHS LANGUAGE AND COMPOSITION**  
Grade 11  
One year - 5 periods  
1 credit—AP Weight

**Note:** This course entitles students to an extra quality point.

**Prerequisite:** Superior grade in an English 10 course and teacher recommendation

The AP Language and Composition course “focuses on the development and revision of evidence-based analytic and argumentative writing and the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text—including images as forms of text—from a range of disciplines and historical periods” (The College Board, AP® English Language and Composition Course Overview 2019).

The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum as well as the Seton Hill University College in High School Course SEL105-Composition and Culture (Part A).

Students are encouraged to take the College Board AP Language and Composition exam that may make them eligible for college credit or register for College in High School (CHS) credits through Seton Hill University (SHU).

*This course may require students to complete a summer assignment.*
**HS0153  ENGLISH 12**  
*Grade 12*  
*One year – 5 periods*  
1 credit

**Prerequisite:** Passing grade in an English 11 course

This senior-level English course will help students develop an understanding of the skills necessary for success at the next level of their education. Through the study of both British and American literature, students will address themes that brought about change in the world as they prepare to graduate.

Oral presentations and writing assignments will focus on analysis and evaluation of rigorous texts. Additionally, students work towards advancing the style and complexity of their written expression through personal and reflective writings, such as the college admission essay.

Students complete a graduation project and must explain to a panel their post-secondary goals based upon a culmination of research and job shadowing experiences. Overall, this course promotes a culture of ongoing and voluntary lifelong learners ready to adapt to ever-changing careers in the 21st century.

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**HS0152  ENGLISH 12 ACADEMIC**  
*Grade 12*  
*One year – 5 periods*  
1 credit

**Prerequisite:** Above-average grades in an English 11 course and teacher recommendation

Academic English 12 prepares students for post-secondary education with an emphasis on becoming independent, self-motivated learners in both reading and writing. This course focuses on college and career readiness through the close reading and critical analysis of both fictional and informational text.

Oral presentations and writing assignments will highlight the importance of documented research and complex problem solving. Writing assignments focus on analysis and evaluation of rigorous texts. Additionally, students work towards advancing the style and complexity of their written expression through personal and reflective writings, such as the college admission essay.

Students complete a graduation project and must explain to a panel their post-secondary goals based upon a culmination of research and job shadowing experiences. Overall, this course promotes a culture of ongoing and voluntary lifelong learners ready to adapt to ever-changing careers in the 21st century.
Note: This course entitles students to an extra quality point.

Prerequisite: Superior grade in an English 11 course and teacher recommendation

The AP Literature and Composition course “focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provoke both meaning and pleasure. As they read, students consider the work’s structure, style, themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works” (The College Board, AP® English Literature and Composition Course Overview 2019).

The AP English Literature and Composition course aligns to an introductory college-level literature and writing curriculum as well as the Seton Hill University College in High School Course SEL151-Topics in Literature.

Students complete a graduation project and must explain to a panel their post-secondary goals based upon a culmination of research and job exploration experiences. Overall, this course promotes a culture of ongoing and voluntary lifelong learners ready to adapt to ever-changing careers in the 21st century.

Students are encouraged to take the College Board AP Literature and Composition exam that may make them eligible for college credit or register for College in High School (CHS) credits through Seton Hill University (SHU).

This course may require students to complete a summer assignment.

ENGLISH DEPARTMENT ELECTIVES
(These electives DO NOT count as English credits for graduation.)

HS0165 AFRICAN-AMERICAN LITERATURE Grade 9, 10, 11, 12
One semester – 5 periods .5 credit

This course provides a survey of African-American literature from the 18th century to the present. The course will concentrate on some key themes of African-American literature and serve as an introduction to key figures in African American Literature. The literature covered in this course will cover the time period from African American slavery through the Civil Rights Movement to the present. The course is designed for the serious student who wishes to read and learn about African American Literature and its changing role in American society. The serious academic students interested in African American Literature should consider this course.
HS0176  FILM AS LITERATURE  Grade 9, 10, 11, 12
One semester – 5 periods  .5 credit

Students will examine the narrative form as interpreted through the medium of film. Students will develop verbal and visual analytical skills through watching, discussing, researching, and writing on a variety of films. They will be expected to critique narrative content and form, identify underlying themes, and analyze from a moral standpoint. This is an exciting course meant to open up the world of literature to the film buff and help students truly understand the connection between a great story and a great film.

HS0164  INTRODUCTION TO DEBATE  Grade 9, 10, 11, 12
One semester – 5 periods  .5 credit

The course is designed for students to gain confidence as they practice debate and argument skills in a fun and challenging classroom setting. Students will learn about the fundamentals of constructing an argument, different types of arguments, different formats for debate, and methods for research and evidence selection.

This class is for students who want to explore debate in a non-competitive setting.

HS0167  JOURNALISM  Grade 9, 10, 11, 12
One semester – 5 periods  .5 credit

Journalism is a semester course designed for students interested in the news, the reporting process, and article writing. This course explores the different types of news, the roles of a journalist in deciphering the news, as well as the ethical responsibilities for a journalist working in today’s media. Students will learn the fundamentals of how to write leads, feature stories, editorials, and other popular means of online writing. Students will also explore the interview process.

HS0163  PUBLIC SPEAKING  Grade 9, 10, 11, 12
One semester - 5 periods  .5 credit

This course is designed to combine rhetoric with practice. The ultimate goal is effective oral communication complemented by both verbal and non-verbal techniques. Since effective communication requires planning and research, the students will use references available through the school and community sources. Students will conduct the research, prepare their speeches, deliver their presentations, and self-critique their efforts. In addition, both their classmates and the instructor will provide evaluations.

The objectives of the course are to monitor and encourage the development of a heightened self-confidence, a progression of the basic speaking dynamics, and an evolution towards the ultimate
goal of becoming an effective communicator. Being a good listener will also be emphasized.

**HS0177 SOCIAL MEDIA**  
Grade 9, 10, 11, 12  
One year – 5 periods  
1 credit

Students who take this course will explore what social media is, social media safety, social media strategies, and the various channels through which it operates, specifically Facebook, Instagram, and TikTok. Students will take a hands-on approach with the High School’s social media platforms and be expected create content for them weekly.

Students must be able to attend various extracurricular activities throughout the semester in order to gather information to post. Students who take this course should be interested in promoting positive topics about our school and community. Students are required to have a working cell phone (iPhone preferred) and must be able to have their image and voice used on social media platforms.

This course is especially important for students wanting to pursue a career in marketing, journalism, and/or communications and will also be helpful for students who want to foster their creativity in a modern way.

**HS0175 YOUNG ADULT LITERATURE**  
Grade 9, 10, 11, 12  
One semester – 5 periods  
.5 credit

Students will read from a selection of theme-based, young adult literature. Themes will deal with contemporary issues facing today's teens. These issues may include alcohol and drug abuse, societal pressures, dystopia, multiculturalism, problem solving, and self-understanding. The class will attempt to understand what elements make up a “young adult” novel. Some poetry and nonfiction pieces may be incorporated as well. Students can expect to read independently, participate in literature circles, write analyses of reading, and develop projects.

**HS0181 JUNIOR SEMINAR**  
Grade 11 only  
One semester – 5 periods  
.5 credit

This one-semester course is a requirement for all juniors.

In this course, students will be exposed to a variety of career and college pathways as well as the tools to transition into their chosen directions after high school. This class will act as the predecessor to all levels of senior English in that the foundational, exploratory work completed in this course will assist students with their graduation projects during their senior year.

The skills taught in this course are imperative to ensuring that each and every student who graduates has a clear understanding of how to succeed in college, at work, or both. Course curriculum focuses on the 11th grade benchmarks of the Pennsylvania Career Education and Work Academic Standards—Career Awareness and Preparation, Career Acquisition, Career Retention and Advancement, and Entrepreneurship.
SOCIAL STUDIES
4 CREDITS REQUIRED FOR GRADUATION

The Social Studies curriculum provides students with a strong background in the historical, governmental, social, economic, political, and cultural basis of life in the United States and the world. Students also receive instruction concerning global issues that affect our world today. This curriculum encourages students to become knowledgeable about their community, regional, national, and global affairs, as well as their roles as American citizens.

**HS0206  CIVICS AND GOVERNMENT**  
Grade: 9  
One year - 5 periods  
1 credit

Civics and Government is the required Social Studies course for the ninth grade. This course is designed as an introductory course to acquaint the student with the formation and operation of our United States government, along with the rights and duties of being an American citizen. Federal, state, and local levels of the American political systems are emphasized.

**HS0207  CIVICS AND GOVERNMENT HONORS**  
Grade: 9  
One year - 5 periods  
1 credit – Honors weight

Prerequisite: “A” or “B” grade in 8th grade American History and Teacher Recommendation.
This is an accelerated course designed specifically for students with a special interest in the formation and operation of our U.S. government. While the rights and duties of being an American citizen will be discussed, special emphasis will be placed on the formation and operation of the U.S. government.

Some of the major topics to be addressed will be the following:
- Comparison of democracy and other forms of government
- Analysis of major primary documents such as the Declaration of Independence, Constitution, and Bill of Rights
- Examination of the elements of government organization (executive, legislative, and judicial branches of government on the federal and state levels).
- Study of political parties and elections
This survey course is the social studies requirement for sophomore year. This course, based upon Pennsylvania State Standards, seeks to expose students to a vast arena of world history, focusing from 1450 until present day. Students will acquaint themselves with their global community through a multi-unit study of the world’s major regions and their histories. In each unit, the students will develop an understanding of how other cultures have direct and indirect connections to their own. Students will study global geographies, histories, economics, and daily activities. This knowledge will help students become literate members of today’s modern global community.

Prerequisites: Students must receive a final grade of “A or B” in Honors Civics with teacher recommendation.

This course focuses on developing students’ abilities to think conceptually about world history from approximately 8000 BCE to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance — focusing on the environment, cultures, state-building, economic systems, and social structures — provide areas of historical inquiry for investigation throughout the course. AP World History encompasses the history of the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania, with special focus on historical developments and processes that cross multiple regions. This is a weighted course. (An added value of 1.0 will be added to the quality point average per grade. Example: A = 5.0, B = 4.0, C = 3.0, etc.)

This course is designed to give the means to understand the historical and social forces that have shaped them as Americans from 1850 through present day. This course focuses on leaning historical content knowledge, the understanding of why events occur through the use of cause and effect relationships, and the development of critical thinking skills. Among the specific topics covered are political and economic aspects of American history, the importance of geography, multi-cultural aspects of American history, and the growth and development of science and technology in American history.
**HS0222 CHS/AP UNITED STATES HISTORY**  
Grade: 11  
One Year – 5 Periods  
1 credit - AP weight  
La Roche University Scholars Program Eligible – Earn up to 6 College Credits

Prerequisites: Students must receive a final grade of “A or B” in World History with teacher recommendation.

AP United States History focuses on developing students’ abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. Seven themes of equal importance — identity; peopling; politics and power; work, exchange, and technology; America in the world; environment and geography; and ideas, beliefs, and culture — provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. This is weighted course. (An added value of 1.0 will be added to the quality point average per grade. Example: A = 5.0, B = 4.0, C = 3.0, etc.)

*Students in this course have the opportunity to earn college credit for a reduced fee through the Scholars Program at La Roche.*

**HS0227 ECONOMICS**  
Grade: 12  
One year - 5 periods  
1 credit

Economics is a senior course that satisfies the Social Studies requirement. It blends a study major economic concepts with many other themes of Social Studies. Structures of the economy are emphasized. Concepts such as supply and demand and business structures are covered. An emphasis is placed on understanding both domestic economic systems and global economic systems. Students should realize their roles and responsibilities in a capitalist economy.

**HS0232 SOCIOLOGY**  
Grade: 12  
One year – 5 periods  
1 credit

Sociology is one of the twelfth-grade courses that satisfies the Social Studies requirement. This course focuses on the key concepts and principles of Sociology. Students are asked to explain social structure of America and other countries. Students are asked to analyze the relationship between people and their environment. This course also asks students to critically analyze their role in society.

**HS0233 PSYCHOLOGY**  
Grade: 12  
One year – 5 periods  
1 credit

Psychology is one of the twelfth-grade courses that satisfies the Social Studies requirement. This course focuses on the major concepts and theories found in introductory Psychology. Students will learn scientific methods used in Psychology. Students will also gain knowledge of the possible careers that exist in Psychology. Students will also gain an insight into the history of Psychology and the new practices and ideas of Psychology.
HS0234  CHS/AP PSYCHOLOGY
One year – 5 periods  1 credit-AP weight
La Roche University Scholars Program Eligible – Earn up to 3 College Credits

Prerequisites: Students must receive a final grade of “A or B” in AP or United States History with teacher recommendation.

Advanced Placement Psychology is an advanced introduction to Psychology course. With a heavy emphasis on reading, writing, and critical thinking, this course is designed for those students with a solid background in these areas. Advanced Psychology will be a fast paced, higher level social studies class which will satisfy the Social Study requirement in the senior year. The comparing and contrasting of modern and historical psychological theory will be the core of the curriculum. Students will be required to write a number of college style papers, and to debate controversial psychological topics. In addition, sensory and perceptual processes of the human being will be studied.

This is weighted course. (An added value of 1.0 will be added to the quality point average per grade. Example: A = 5.0, B = 4.0, C = 3.0, etc.)

Students in this course have the opportunity to earn college credit for a reduced fee through the Scholars Program at La Roche.

SOCIAL STUDIES DEPARTMENT ELECTIVES
(These electives DO NOT count as Social Studies credits for graduation.)

HS0235  CRIMINAL JUSTICE
One semester – 5 periods  .5 credit

Criminal Justice is a half-year elective course that can be taken by any junior or senior who has passed Civics and Government. The course focuses on the understanding of the criminal justice system of the United States and how it works in today’s society. Many people have a negative image of how our justice system works. They believe that it is filled with corrupt police and officials, biased judges and a congested legal process. Many people with this view do not have a good understanding of our justice system. This class is an elective credit and does not meet the Social Studies graduation requirement.

HS0230  WORLD GEOGRAPHY
One Semester – 5 Days  .5 Credit

This elective half-year course is designed using Pennsylvania and National Standards as a survey course that will expose students to the physical, political and cultural geographies of the world. It will enable students to answer the question of “Where would I find that again?” Students will review basic map skills while being exposed to cultures from around the world. This interdisciplinary approach will incorporate aspects of physical science, sociology, anthropology,
economics and history in a class that is designed to be project-based. Insights will be gained into relationships among people and places and students learn significant facts about the world in which they live.
This is an elective course and does not meet the social studies graduation requirement.

HS0236  CULTURAL MYTHOLOGY & FOLKLORE  Grade 9,10,11,12
One semester – 5 Days  .5 Credit

People have always tried to understand why things happened. In a time before scientific answers, people were imaginative enough to explain their world through gods, legends, and magic. Students will examine the nature of myths, as well as their social functions. They will see how myths were developed to describe historical events, explain how the world functioned, and serve as lessons for culturally accepted behavior. A variety of folklore and legends will be examined; these tales will include classical mythology of Greece and Rome, as well as myths of Native Americans, Norse, Celts, Africans, Japanese and more. Studying mythology from a cultural approach, students will be able to identify common themes, characters, and philosophies as they explore the role these stories played in how cultures developed. They will also see the connection between myths and today’s society.
This is an elective course and does not meet the social studies graduation requirement.

HS0244 Kings & Queens: EUROPEAN HISTORY  Grade 9,10,11,12
One Semester – 5 Periods  .5 Credit

This one semester elective course is designed to focus in on one of the most influential continents in the world, Europe. Students will take a more in-depth focus on how Europe’s global influence developed through the knights of the Middle Ages to the wars of the Twentieth Century. Europe’s eras of absolute monarchies, scientific development, imperialism, and conflict will be examined.
This is an elective course and does not meet the Social Studies graduation requirements.

HS0242  AP COMPARATIVE GOVERNMENT AND POLITICS  Grade 9,10,11,12
One Semester – 5 periods  .5 credit- AP weight

Prerequisites: Students must receive a final grade of “A or B” in current social studies course with teacher recommendation.

This course introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures; policies; and the political, economic, and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues. Students compare and contrast political institutions and processes across six countries and analyze and interpret data to derive generalizations. Topics include: Introduction to Comparative Politics; Sovereignty, Authority, and Power; Political Institutions; Citizens, Society, and the State; Political and Economic Change; Public Policy. The emphasis should be on broad trends
that allow comparison, rather than on details that are unrelated to larger trends and concepts. This class is an elective credit and does not meet the Social Studies graduation requirement. This is a weighted course.

**HS0245 AFRICAN AMERICAN HISTORY**

Grade 10,11,12

One Semester – 5 Days

.5 Credit

This elective half-year course is designed to examine how African Americans aided in the shaping of American culture throughout US history. Using historical thinking skills, students will examine the political, geographical, and societal impact of African Americans through a timeline of events beginning with the slave trade, continuing through the civil rights movements, and ending with modern social events. The course will examine not only African Americans’ impact on American society, but it will also analyze how historical events impacted African American culture. This is an elective course and does not meet the social studies graduation requirement.

**HS0246 NATIVE AMERICAN HISTORY**

Grade 10,11,12

One Semester – 5 Days

.5 Credit

This elective half-year course is designed to explore the rich history and culture of the indigenous people of America. Using a chronological timeline as a guide, students will utilize historical and anthropological thinking skills to learn about the native peoples from early migration to present day. Through the study of the history of the Native American people and the examination of how their culture changed, students will be able to comprehend the diversity and richness of the Amerindian cultures. This is an elective course and does not meet the social studies graduation requirement.

**HS0247 UNDERSTANDING THE CRIMINAL MIND**

Grade 11,12

One Semester – 5 Days

.5 Credit

This elective half-year course is a hybrid study using elements of criminal justice and psychology. Throughout the course, students will seek to answer the question of what motivates some people to commit horrible and criminal acts? Students will attack this question through analysis rooted in psychological, sociological, biological, and environmental perspectives. The course will also examine how the criminal justice system must balance understanding and consequences. This is an elective course and does not meet the social studies graduation requirement.
HS0248 **ANCIENT AND CLASSICAL WORLD HISTORY**  
Grades 9,10,11,12  
One Semester-5 periods  
.5 Credit

Ancient and Classical World History is a one semester course that will examine the Ancient Greeks, Romans, Egyptians, Mesopotamians, and more. The course focus is to provide historical and cultural information about Ancient societies starting with the Cradles of Civilization and finishing with era prior to the Medieval world. This deeper exploration elective allows students to explore the lives, beliefs, architecture, cultures, and wars of early civilizations that are not part of the high school world history curriculum. This class is an elective credit and does not meet the Social Studies graduation requirement.

HS0249 **Mock Trial**  
Grades 10,11,12  
One Semester – 5 Periods (Fall Only)  
.5 Credit

This one semester course is a simulation-based class that explores how trials actually work in the modern legal system. Students will actively learn about the legal system by preparing a case for presentation in court while working on public speaking and research skills. Participation in the course helps students develop skills that are vital in post-secondary education and career fields both in and outside of legal studies. Students in this course may have the opportunity to compete at the Allegheny County Mock Trial Tournament at the end of the semester. This class is an elective credit and does not meet the Social Studies graduation requirement.

HS0250 **History Through Film**  
Grades 9,10,11,12  
One Semester – 5 Periods  
.5 Credit

A one semester elective course that will use movies to examine multiple perspectives in history. Students will also view and analyze primary and secondary sources to evaluate accuracy in popular films. This class is an elective credit and does not meet the Social Studies graduation requirement.

HS0251 **Current Events**  
Grades 9/10/11/12  
One Semester – 5 Periods  
.5 Credit

This discussion-based elective will examine current issues of the modern day using local, national and global news. The focus of the class is to raise awareness of the world around us, but to also be able to identify bias in news reporting. The class will follow political, social, and economic issues. Once a week the class will examine the historic causes of these news events. Students will leave the class with a stronger understanding of the relationship between current events and history and the foundation of basic skills to have constructive civil discourse. This class is an elective credit and does not meet the Social Studies graduation requirement.
MATHEMATICS
3 CREDITS REQUIRED FOR GRADUATION

The Mathematics department of The West Mifflin Senior High School seeks to empower our students with the abilities and motivation to become life-long learners and users of mathematics. It is our goal to instill in our students an appreciation of mathematics as a tool to be used in everyday life. Toward these ends, we will employ proven teaching methodologies and up to date technologies such as graphing calculators and computer-based learning. A thorough understanding of mathematics can prepare students for an ever-increasing range of careers and opportunities.

**HS0089 MATH 9**
Grade 9
1 credit

Math 9 will introduce students to a pre-algebra curriculum, concepts and required skills. Topics covered in this course include integers, rational numbers, irrational numbers, variables, solving equations and inequalities, problem solving and reasoning skills, graphs of lines, statistics and probability. This course is designed to meet the needs of the special education students in a setting that utilizes the general education pre-algebra curriculum.

THESE CLASSES ARE BY TEACHER RECOMMENDATION ONLY.

**HS0082 MATH 10**
Grade 10
1 credit

Math 10 will introduce students to algebra I curriculum, concepts and required skills. Topics covered in the course include variables, integers, solving equations and inequalities, problem solving and reasoning skills, graphs and equations of lines, statistics and probability. This course is designed to meet the needs of the special education students in a setting that utilizes the general education Algebra 1 curriculum, ensuring that each student is receiving free appropriate public education while utilizing the accommodations set forth in the students Individualized Educational Plan. Students will take their Keystone Exam at the completion of this course.

THESE CLASSES ARE BY TEACHER RECOMMENDATION ONLY.

**HS0072 MATH 11**
Grade 11
1 credit

Math 11 is a course designed to introduce the concepts and skills of an Algebra II course. Topics covered in the course include tools of algebra, linear equations and functions, systems of linear equations, inequalities and absolute value, quadratic functions and factoring, problem solving and reasoning skills, and probability and statistics. This course is designed to meet the needs of the special education students in a setting that utilizes the general education Algebra 2 curriculum at a modified pace, ensuring each student is receiving a Free Appropriate Public Education accommodation set forth in their Individualized Educational Plan.

THESE CLASSES ARE BY TEACHER RECOMMENDATION ONLY.
**HS0343 ALGEBRA I**

Grade 9, 10, 11

One year – 5 periods

1 credit

Prerequisites: Teacher recommendation and a final grade of an A, B, or C in Math 8 or students who did not pass Algebra I at the 8th grade level with a C or better based on test scores and placement test, or did not score above 1480 on the keystone Algebra I test. Also for the 10th/11th grade student who passed Pre-Algebra.

This course is offered for students in ninth grade who passed Math 8 with an A, B or C+, or algebra I with a B, C, or D average but did not pass the keystone exam with a score of 1480 or above, or the 10th/11th grade student who passed pre-algebra. The fundamental rules of algebra are presented in this course. Properties of the real numbers, operations with rational expressions, linear equations, elementary factoring, simple quadratics, verbal problems, and applications are some of the topics covered. The keystone exam will be administered at the end of this course.

**HS0346 ALGEBRA II**

Grade 10, 11, 12

One year – 5 periods

1 credit

Prerequisites: Students that have passed Geometry with a C or D.

This course is designed for the student who has completed Algebra I with a C or D, or Algebra II with a C or D and has not passed the PA state Keystone exam. This course will cover topics including quadratic equations, logarithms, factoring, and radical expressions. Applications will be strongly enforced with these topics.

**HS0342 HONORS ALGEBRA II**

Grade 9

One year – 5 periods

1 credit

Prerequisites: Teacher recommendation. This course is restricted to ninth grade students earning a final grade of at least C in Geometry in 8th Grade based on test scores and placement test. These students must have passed the Keystone Algebra I exam.

This course is designed for the ninth grade above average mathematics student. It will be taught at an accelerated pace with more rigor and depth, and will cover more topics than the traditional Algebra II course. It includes but is not limited to linear, quadratic, and exponential and log equations, systems of equations and inequalities, rational exponents, algebraic fractions, complex numbers, radical expressions and probability.

**HS0306 ACADEMIC ALGEBRA II**

Grade 9, 10, 11, 12

One year – 5 periods

1 credit

Prerequisites: Teacher recommendation and a final grade of at least a C in Geometry based mainly on test scores and placement test.

This is the traditional second year Algebra course offered for tenth, eleventh and twelfth grade students. The course content includes factoring, integers and rational exponents, algebraic fractions, equations, radical expressions, complex numbers, quadratics, graphing, systems of equations and inequalities and determinants. This course is recommended for any college bound student.
**HS0390 COLLEGE ALGEBRA (CHS)**
Grades 10, 11, 12
One year – 5 periods
Prerequisites: Teacher recommendation and a final grade of at least a “C” in Algebra II.

This course is one that follows the curriculum of a college freshman mathematics course. It is designed for those students who have successfully completed the courses of Algebra I, Algebra II and Geometry. It is also recommended to those students that may need to reinforce their algebra skills while or before taking Pre-Calculus and Trigonometry or Calculus. This course is also recommended for college-bound students not planning on being a math or science major.

*Scholar Credit Eligible (pending)*

**HS0348 GEOMETRY**
Grade 10, 11, 12
One year – 5 periods
Prerequisites: tenth, eleventh grade students who have completed Algebra 1 with a C or D

This course is a basic and elementary Geometry course taught with a less formal approach with emphasis on Geometry topics. The course will include practical applications of basic theorems dealing with length, angles, triangles, constructions, areas, volumes, circles, polygons, right triangle trigonometry, indirect measuring, simple probability of outcome problems, and basic statistical concepts of measures of central tendencies. The course will be kept at an informal and fundamental level and include some hands-on activities.

**HS0305 ACADEMIC GEOMETRY**
Grade 9, 10, 11, 12
One year – 5 periods
Prerequisites: Teacher recommendation and a final grade of at least C in Algebra 1 (for 10th grade) or Algebra II (for 11th grade).

This is the traditional Geometry course offered for tenth, eleventh and twelfth grade students. Theorems involving triangles, parallel lines and polygons, congruence, similarities, circles and ratios are discussed. Any student considering college admissions should enroll in this course. This course is also offered for any 9th grader that did not pass geometry in 8th grade

**HS0330 WORKFORCE MATH**
Grades 11, 12
One year – 5 periods
Prerequisites: Completion of Algebra 1 and Geometry

The course is an application-based learning approach incorporating Algebra I and Geometry topics. The course encourages students to be actively involved in applying mathematical ideas to their everyday lives. The course will focus on the stock market, modeling a business, banking, consumer credit, automobile ownership, employment basics, income taxes, independent living, and planning for retirement.
HS0355  PRE-CALCULUS AND TRIGONOMETRY  
Grade 11, 12  
One year – 5 periods  
1 credit
Prerequisites: Teacher recommendation and a final grade of at least B in geometry, or passing grade in Algebra III.

This course is offered for eleventh and twelfth grade students. The Trigonometry part of this course includes traditional topics such as trigonometric functions, acute angles and right triangles, radian measures, graphing various functions, identities and trigonometric equations. In the Pre-Calculus section, much emphasis is placed on all types of functions, graphing, and functional behavior. Polynomial, rational, exponential, and logarithmic functions will be discussed and analyzed in detail. Additional topics will include conic sections and vector analysis.

HS0356  HONORS PRE-CALCULUS AND TRIGONOMETRY  
Grade 10  
One year – 5 periods  
1 credit – Honors weight
Prerequisites: Teacher recommendation. Restricted to tenth grade students earning a final grade of at least B in 9th grade honors algebra II.

This weighted course is designed for the accelerated math student and is limited to 10th grade math students only. It covers all the same topics that the Pre-calculus and Trigonometry class covers, as well as additional topics, such as nonlinear systems of equalities, partial fractions, and matrices. As an accelerated and weighted class, the student can expect more rigor and depth in this course.

HS0371  AP CALCULUS AB (A)  
Grade 11, 12  
One year – 5 periods  
1 credit – AP weight
Prerequisites: Teacher recommendation and a final grade of at least C in Pre-Calculus and Trigonometry.

This course is designed for the exceptional eleventh or twelfth grade mathematics student. This is a rigorous course in which many topics of a normal first year college calculus course are studied. In the first semester, functions are thoroughly studied by strictly adhering to function notation. Limits, derivatives, applications of derivatives, and integration are also discussed. During the second semester, methods of anti-differentiation are studied as well as transcendental functions, differential equations, and applications of derivatives. The students in this class are expected to take the AP Calculus AB exam.

HS0374  AP CALCULUS BC (B)  
Grade 12  
One year – 5 periods  
1 credit – AP weight
Prerequisites: Teacher recommendation and a final grade of at least B in Calculus.

This course is designed for the exceptional twelfth grade mathematics student. This course is intended for students who have a thorough knowledge of college preparatory mathematics, including Algebra II, Geometry, Trigonometry, (rectangular and polar coordinates, equations and graphs, lines and conics). AP Calculus is a continuation of Calculus and is equivalent to a
college level Calculus II course. AP Calculus begins with a review of the topics learned in Calculus and then covers techniques of integration, sequences, series, polar functions, and vectors. The students in this class are expected to take the AP Calculus BC exam.

**HS0382 PROBABILITY AND STATISTICS**  
Grade 11, 12  
One year – 5 periods  
1 credit  
Prerequisites: Completion of Calculus, Pre-Calculus and Trigonometry or Algebra III.

This is a higher-level math elective course that will explore how to examine data, probability models, normal distributions and regression analysis. Methods and terminologies of descriptive and inferential statistics, sampling, and the normal curve are examined. This is an excellent class for those that are college bound, as most majors require a statistics class.

**HS0384 AP PROBABILITY AND STATISTICS**  
Grade 12  
One year – 5 periods  
1 credit AP Weight  
Prerequisites: At least a C in Trig or passing in Algebra III, must have completed Algebra II and Geometry and teacher recommendation.

This is an advanced math elective course. It is designed for the 12th-grade student who has a thorough knowledge of Algebra III, Statistics, Pre-Calculus/trig or Calculus. This course teaches methods and terminologies of descriptive and inferential statistics. Students who complete this course will be able to conduct their own analyses of standard one-sample or two-sample data sets, follow statistical reasoning, read statistical reports with understanding and probability theory. Introductory topics in linear regression, analysis of variance and contingency table analysis will also be covered. The course is designed to coincide with what a typical college-level Introduction to Probability and Statistics class will cover. Students are expected to take the corresponding AP Examination early in May.

**MATHEMATICS ELECTIVES**  
*Do not count as 3 required math credits*

**HS0375 INTRODUCTION TO JAVA**  
Grade 10, 11, 12  
One year – 5 periods  
1 credit – Honors weight  
Prerequisites: 3.0 average or better in Algebra I and Algebra II.

This elective course introduces structured design and programming using the Java language. Students will learn to implement computer-based solutions to problems in several application areas. It is intended as a preparation for advanced placement computer science. Eleventh grade students will have preference. Students must be taking Algebra II or higher in mathematics classes. This class is an elective credit and does not meet the Math graduation requirement.
HS0378 AP JAVA
Grade 12
One year – 5 periods
1 credit - AP weight
Prerequisites: Introduction to Java and teacher recommendation.

This elective course emphasizes structured programming methodology, algorithms, and data structures provided in the context of computing applications. The Java programming language constitutes the vehicle for implementing computer-based solutions to particular problems. This course is comparable to a first-year course offered in college computer science departments. This class is an elective credit and does not meet the Math graduation requirement.

MATHEMATICS COURSE MAP

- Intro to Java (HS0375) and AP Java (HS0378) are also offered and can be taken with a B average in Algebra 1 and Algebra 2.
Science courses in the West Mifflin Area High School are designed to help students develop an understanding of science as a human activity in which we strive to explain the natural world. Scientific explanation is based upon experimentation and laboratory work.

The course work and activities provide students with extensive laboratory activities based on the skills of observation, prediction, interpretation and analysis of data. Activities allow for a “hands on, minds on” understanding of scientific principles.

Students will progressively develop critical thinking skills as they progress through the curriculum. They will discover the relationships between scientific fields of inquiry and their underlying common principles. Students will experience the relationship between science and technology. They will explore the impact that scientific thought and discoveries have on society and how science is used to serve society.

We live in an advanced technological society. Every student needs to have an expanded understanding of science and technology. All students are encouraged to enroll in as many science courses as their schedule and personal interests allow. Course descriptions are organized by grade in order from ninth to twelfth grades.

All ninth-graders will take Biology. Students and parents should read the following descriptions to determine which pathway best meets the student’s academic needs and career plans. The Pennsylvania Biology Keystone Exam will be administered at the end of the course.

**HS0418 BIOLOGY**

**Grade 9**

5 periods

1 credit

The principles and concepts that apply to life at all levels are presented throughout Biology to challenge students to think critically about the world in which they live. Students will be introduced to biological theories, vocabulary, and laboratory practices through discussions, investigations, demonstrations, and small and large-group activities. Students will be prepared for the rigorous Biology Keystone Exam by investigating topics that include cell structure and function, cell division, genetics, evolution, and ecology.
HS0415  HONORS BIOLOGY  Grade 9
5 periods + lab period on alternate days  1.5 credits - Honors Weight

Prerequisites: “A or B” in 8th grade Science and “A or B” in Algebra or Geometry

Honors Biology is a course with extended time for labs designed to teach the basic laws and principles of biology. It is very similar to Biology but with the extra class time, students are able to dive more deeply into the content. Students will be prepared for the rigorous Biology Keystone Exam by investigating topics that include cell structure and function, cell division, genetics, evolution, and ecology. Students will be guided along the course of study to develop critical thinking and problem solving through scientific inquiry.

All sophomores will take Chemistry. Students and parents should read the following descriptions to determine which pathway best meets the student’s academic needs and career plans. Sophomores may also take elective courses in addition to one of the courses listed on this page.

HS0425  CHEMISTRY  Grade 10
5 periods  1 credit

This course is designed to help students discover the world of chemistry. Through experimentation, problem solving and other class activities, students will develop a clear understanding of basic chemistry. This basic understanding will include such things as the nature of matter, solutions, acids and bases, salts, and chemical reactions. This knowledge will be applied to the real world so that students can see how chemistry affects their everyday life. The math required for this course will be minimal. The course is not designed for students considering a career in engineering, mathematics, or any science related field or profession. Students must have passed Biology to take this course.

HS0429  ACADEMIC CHEMISTRY  Grade 10
5 periods + lab period on alternate days  1.5 credits

Prerequisites: “A, B or C” in Algebra and “A or B” in Honors Biology or an “A” in Biology

Academic Chemistry introduces the basic theories and concepts of the science of chemistry. It is recommended for college-bound students not interested in science related careers. Throughout the course, emphasis will be placed on developing the skills of critical thinking and problem solving. Algebra level math skills are expected and used regularly.
HS0427  HONORS CHEMISTRY  Grade 10
5 periods + lab period on alternate days  1.5 credits - Honors Weight

Prerequisites: “A or B” in Algebra and
“A or B” in Honors Biology or “A” in Biology (with teacher recommendation)

Honors Chemistry introduces the basic theories and concepts of the science of chemistry. It is
recommended for college-bound students. Throughout the course, emphasis will be placed on
developing the skills of critical thinking and problem solving. Upper level math skills are
expected and used regularly. This course is appropriate for advanced college-bound students
who intend to major in science, medicine, engineering, or related technical professional fields.

All juniors will take Physics. Students and parents should read the following descriptions to
determine which pathway best meets the student’s academic needs and career plans. Juniors
may also take CHS and elective courses in addition to one of the courses listed on this page.

HS0433  PHYSICAL SCIENCE  Grade 11
5 periods  1 credit

Physical Science focuses on topics in the fields of chemistry and physics. The emphasis of this
course is on the application of physics and chemistry principles to everyday life with some
mathematical and theoretical applications to reinforce concepts that are discussed. Students will
apply the scientific principles they learn in this course to help them make decisions related to
science in their life outside of school. Course topics include but are not limited to qualities of
matter, mechanics, work and machines, sound and light.

HS0437  ACADEMIC PHYSICS  Grade 11
5 periods + lab period on alternate days  1.5 credits

Prerequisites: “A, B, or C” in Honors Chemistry or Academic Chemistry or
“A” in Chemistry with teacher recommendation and
“A or B” in Algebra II or Geometry

This course is designed so that the student will, through participation in experiments, problem
solving, and other class activities, develop a clear understanding of the concepts of physics. It
enables the student to take these basic concepts and use them to understand events in everyday
life as well as more complex physical phenomena. This course has been planned with the
average student in mind. It would be essential to anyone planning a technical career and highly
beneficial to anyone living in our technical society. (This course is not for students planning a
career in engineering.)
HS0439       HONORS PHYSICS       Grade 11
5 periods + lab period on alternate days       1.5 credits - Honors Weight

Prerequisites: “A or B” in Biology and Chemistry and
“A or B” in Algebra II and Trigonometry (can be concurrently enrolled in Trig)

This course is designed to help the students develop the ability to reason and problem solve. Students will have the opportunity to develop hypotheses and evaluate theories related to basic physics principles. Using logic, reason and knowledge of basic physics concepts, students will explain various phenomena from the world around them. This course would be especially useful for anyone considering a career in science, mathematics, engineering or health sciences. Many of the theories and concepts discussed in this class will be reaffirmed through hands-on laboratory activities.

Seniors taking additional sciences may choose from CHS Physics, CHS Chemistry, CHS Biology, Academic Physics or Academic Chemistry, or semester electives. Three years of science are required for graduation; electives cannot take place of third year science requirement.

HS0424       COLLEGE IN HIGH SCHOOL (CHS) CHEMISTRY       Grades 11, 12
5 periods + lab period on alternate days       1.5 credits – AP weight

Prerequisites: “A or B” in Honors Chemistry and “A or B” in Algebra II
Student must be enrolled in Honors or Academic Physics

This course is a college General Chemistry I course offered through the University of Pittsburgh’s College in High School program. Topics covered include atomic theory, molarity, gases and kinetic theory, thermochemistry, electronic structure and the periodic table, relationships between phases, ionic solution, redox reactions, and thermochemistry. Problem solving and laboratory experiences are key components of this course. Five laboratory experiments will be performed at Pitt’s Department of Chemistry facilities. Students will take three university-prepared exams, as well as a comprehensive final exam taken at the University. Students who successfully complete the CHS Chemistry course will receive four credits from the University of Pittsburgh. There is a fee of $348 for this course and financial aid is available. Students intending to pursue careers in Science, Engineering, or Medicine-related fields should enroll in this course.
HS0422    COLLEGE IN HIGH SCHOOL (CHS) BIOLOGY    Grades 11, 12
5 periods + lab period on alternate days    1.5 credits - AP Weight

Prerequisites: “A or B” in Honors Biology or Honors Chemistry or Honors Physics and “A or B” in Algebra II

This course is a college Organismal Biology course offered through Seton Hill University’s College in High School program. This course will cover key concepts of biological science including those from the disciplines of anatomy, ecology, evolution, genetics, molecular biology, physiology, and systematics. The laboratory component of the course will introduce students to basic biological concepts through hands-on learning and the application of scientific methods while focusing on the evolution of prokaryotes and eukaryotes and the diversity of plants and invertebrate animals. Students who successfully complete the CHS Biology course will receive four credits from Seton Hill University. There is a fee of $225 for this course and financial aid is available. Students planning careers in science, medicine, biomedical engineering, microbiology or biochemistry should consider this course.

HS0434    ANATOMY AND PHYSIOLOGY    Grades 11, 12
5 periods + lab period on alternate days    1.5 credits - Honors Weight

Prerequisites: “A, B, or C” in Chemistry and Biology

Anatomy and Physiology is designed to help the student understand the relationships between the structures of the human body and their functions. All of the body systems are discussed from the cellular to the system levels. Due to the content, this course is best suited for students with a strong interest in the human body and or health related careers. This course is structured to prepare students for college level courses; this class helps to develop skills in time management, responsibility, reading comprehension and essay writing. Students will have the opportunity to perform in-class dissections and chemical analyses as well as observe histological and skeletal specimens.

*If students plan to take both Anatomy and Physiology and CHS Biology before graduating, it is recommended they take Anatomy and Physiology their junior year.
HS0435 COLLEGE IN HIGH SCHOOL (CHS) ANATOMY AND PHYSIOLOGY
5 periods + lab period on alternate days Grades 11, 12
1.5 credits - AP Weight

Prerequisites: “A, B, or C” in Honors Chemistry and Honors Biology
Recommended: CHS Biology and/or Honors Physics

CHS Anatomy and Physiology is a college course offered through Carlow University’s College in High School Program. The students will examine the anatomy and physiology of the systems of the body. The relationship between structure and function and the concept of homeostasis are emphasized. Attention will be given to case studies and application of basic anatomical and physiological facts. Dissections will be performed to incorporate and enhance material discussed in lecture. There will be two trips during the year to Carlow University’s cadaver lab where the viewing of cadavers and cadaver specimens will occur. This course is designed for students with a strong interest in the human body and/or health related careers that require at least a four-year degree. Cost of the course will be $300 per semester, with no financial aid being offered. Students may earn up to eight credits through this course. The course is suggested to be taken after Honors Biology and Honors Chemistry. It is also suggested that students have taken or are taking Honors Physics and/or CHS Biology.

HS0440 COLLEGE IN HIGH SCHOOL (CHS) PHYSICS Grade 12
5 periods + lab period on alternate days 1.5 credits - AP Weight

Prerequisites: “A or B” in Honors Physics or “A” in Academic Physics.
“A or B” in Calculus (can be concurrently enrolled in Calculus)

This course is the equivalent of an introductory, calculus-based, college physics course offered at the University of Pittsburgh. This course will focus mainly on classical mechanics but will also touch upon wave motion and thermodynamics. The emphasis of the course is on problem solving and applications of physics concepts. There will be four exams administered throughout the course; these are written and distributed by the University of Pittsburgh. The cost for the course is $300 for four credits and financial aid is available through the university. Any student intending to pursue a career in mathematics, science or engineering will find this course essential.
HS0453 FORENSIC SCIENCE  
Grades 10, 11, 12  
.5 credit elective

This course encompasses many science disciplines as they are used to support criminal investigations and the legal system. Students will apply concepts of biology, organic and inorganic chemistry, physics, genetics, and anthropology as they explore: toxicology, serology, fingerprinting, drug analysis, and much more. Whether students desire to be a crime scene investigator, forensic pathologist, or some other medical scientist, this course will help them hone their investigative skills and review a wide range of science concepts.

HS0452 HEALTH PROFESSIONS PREVIEW  
Grades 10, 11, 12  
.5 credit elective

Students planning post-secondary education in nursing or other related medical fields will gain a better understanding of various medical careers and terminology related to medical professions. The course will emphasize root words at the heart of understanding the human body and its structures. Each unit will emphasize vocabulary related to individual body systems and the major organs of those systems. The learning experience will be accompanied by an introduction into careers related to each topic of discussion. This course is available to sophomores, juniors, and seniors who have completed Biology or Honors Biology with a minimum of a “C.”

HS0450 INTRO TO ASTRONOMY  
Grades 10, 11, 12  
.5 credit elective

What is that up in the night sky? How much longer will the Sun shine? Why does the Earth not fly away from or crash into the Sun? These questions and many more will be answered in this introductory course designed for those students interested in space science. Topics will include: Earth’s place in space, our solar system, constellations, the life cycles of stars, planets in other solar systems, types of galaxies, and theories about how our universe was born and how it will end.

HS0451 ZOOLOGY  
Grades 10, 11, 12  
.5 credit elective

Do you love animals (sometimes more than people)? If yes, then Zoology is the course for you! All groups of animals will be discussed, including invertebrates like jellyfish, butterflies and lobsters, and vertebrates like birds, reptiles, amphibians and fish. For each group, we will learn about how they are classified and named and their body structures, habitats, behaviors, and unique characteristics. We will NOT be dissecting animals, only studying them. To take Zoology, you must have successfully passed ninth grade biology.
**HS0447  GENETICS**
Grades 11, 12
.5 credit elective

What can your DNA tell you about your future health? How do crime investigators use biological molecules to convict or release suspects? How do they identify unknown victims or complete paternity tests? This course will use scenarios to explore the science of genes and proteins. Modern biotechnology will be applied to hands-on investigations.

**HS0446  MICROBIOLOGY**
Grades 11, 12
.5 credit elective

What’s growing in and on you and your food? What is causing that disease? We will explore the world of microorganisms including bacteria and viruses. With an emphasis on experimentation and inquiry activities students will investigate the mysteries of antibiotics, food preservation and disease. (No disease-causing bacteria will be used in class.)

**HS0448  MATERIALS SCIENCE**
Grades 11, 12
.5 credit elective

Could you make a better shoe? A better golf club? A better car? Look at any modern tool or toy and behind it you will find materials engineered with specific properties to make it work. This course will focus on the chemistry and science of solid materials and how processing affects the properties, function, cost, and performance of materials. Juniors and seniors interested in science, engineering, and technical fields are encouraged to enroll in this course. This course is highly recommended for students interested in robotics.

**HS0443  MAKERSPACE SCIENCE**
Grades 11, 12
.5 credit elective

Makerspaces are cool, fun, and exciting places where students do, make, and work with technology. But, what is the science involved? This class will introduce the chemistry and materials science of polymers, glass, ceramics, metals, and other materials used in makerspaces. With an emphasis on hands-on activities to investigate the properties of materials used in making and creating, students will discover how science and engineering are utilized to create new and interesting products. This course is available to juniors and seniors who have completed chemistry.
WORLD LANGUAGES

2 OR 3 YEARS OF THE SAME LANGUAGE IS RECOMMENDED FOR POST-SECONDARY ADMISSION

The ability to speak and write a second language is certainly a valuable skill in today’s multi-cultural and international society. We all realize that the acquisition of a second language may be a difficult but worthy task for many students. The accomplishment of this task will be very worthwhile. Students are encouraged to enroll in at least three years of foreign language instruction during their high school years. Three years of instruction in a second language will allow students to become competent in the spoken and written language. In addition, Students with three years of instruction in foreign language will be better able to succeed in their post-secondary years.

**HS0515  GERMAN I**

Grade 9,10,11,12
One year - 5 periods  1 credit

In German I, students will develop the basics of the German language. German is spoken throughout Europe and greatly influences the history, culture, and traditions of Western Pennsylvania. Emphasis will be placed on listening, speaking, reading, and writing. These four language skills will be integrated into various cultural topics. The course is designed to equip students with the skills necessary in learning a foreign language as well as to introduce them to the German language itself. German I focuses on communication—students quickly learn to use the language (not just learn the grammar) in the context of everyday situations. Students use cultural readings, German newspapers, menus, video and audiotapes, skits, pair and group work, and the Internet to learn how to meet very basic survival needs. In the process, students will learn more about themselves, their own language, and German-speaking cultures.

**HS0518  GERMAN II**

Grade 10,11,12
One year - 5 periods  1 credit

Prerequisite: "C" or better in German I

In German II students will continue to develop their listening, speaking, reading, and writing skills. Culture continues to be a major focus. After a review of German I basics, students will move onto more complex uses of the language. The course is communicative in nature and students will use the language in a variety of situations, including oral and written presentations, pair and group work, letter exchanges, reading and writing children’s literature, and many other exciting activities. Students will continue to expand their thinking and awareness of themselves and their world through an understanding and appreciation of German culture, people, and society.
German III students continue to develop the four essential language skills of listening, speaking, reading, and writing—all within the context of German culture. The course begins with a review of German I and II and moves onto more complex uses of the language including new grammar points and verb tenses. The language is applied to new and different every day and/or survival situations. This includes a wide range of activities including using maps and travel guides to plan a trip abroad, oral and written presentations, pair and group work, journal writing, and various Internet activities. Emphasis is also placed on various cultural readings as students discover more about the culture and history of German-speaking countries.

German IV maintains emphasis upon listening, speaking, reading, and writing skills as they apply to everyday life and more complex survival situations. Students are encouraged to use the language creatively through activities such as skits, puppet shows, cooking, writing poetry and short stories, and Internet activities. Complex language uses, verb tenses and grammar points are examined more in-depth in the context of a variety of life functions. Students will gain a better understanding of the history of German-speaking countries as they read various literary texts.

German IV has been designated as an honors course. (An added value of 0.5 will be add to the quality point average per grade, i.e., A = 4.5, B = 3.5, C = 2.5, etc.)

In Spanish I, students will develop the basics in the Spanish language which is spoken in North America, Central America, South America, Europe, the Caribbean, and the United States. Four language skills will be emphasized: listening, speaking, reading, and writing.

Spanish I is designed to equip the students with the necessary skills of “how to learn” a foreign language as well as to introduce them to the Spanish language itself. This course is communicative in nature; students learn to use the language, (not just use grammar) in everyday situations. Through readings, audio/video presentations, presentations, and group work, students learn to use Spanish to meet basic survival skills and needs. In the process, students will learn about themselves, their language, and the various Spanish-speaking cultures throughout the world.
**HS0537 SPANISH II**

Grade 9,10,11,12  
One year - 5 periods  
1 credit

Prerequisite: "C" or better in Spanish I

In Spanish II, students will continue to develop skills in listening, speaking, reading, and writing. The content of the course includes a review of Spanish I and an introduction to the grammatical construction of the language. The course is student-centered with an emphasis on using the language as naturally as possible with the context of everyday situations common to the student. Students will expand their thinking and awareness of themselves and their world through an understanding and appreciation of Hispanic culture, people, and society.

**HS0538 SPANISH II HONORS**

Grade 9,10,11

One year - 5 periods

1 credit-honors weight

Prerequisite: “B” or better in Spanish I (8th grade); “A” or better in Spanish I & teacher recommendation (9th/10th grade)

In Spanish II honors, students will continue to develop skills in listening, speaking, reading, and writing. The content of the course includes a review of Spanish I and an introduction to the grammatical construction of the language. The course is student-centered with an emphasis on using the language as naturally as possible with the context of everyday situations common to the student. Students will expand their thinking and awareness of themselves and their world through an understanding and appreciation of Hispanic culture, people, and society. The pacing of this course is faster than that of Spanish II, and activities are developed to help enrich and enhance the understanding of the language. (An added value of 0.5 will be added to the quality point average per grade, i.e., A = 4.5, B = 3.5, C = 2.5, etc.)

**HS0541 SPANISH III HONORS**

Grade 11,12

One year - 5 periods

1 credit-honors weight

Prerequisite: "B" or better in Spanish II Honors

Spanish III Honors begins with a review of verb tenses and key grammar points presented during Spanish I and Spanish II. Initially, listening and speaking skills continue to be emphasized while applying them to new and different every day and/or survival situations (e.g. Shopping for clothing, dining out, traveling abroad). New grammar points and new verb tenses in the indicative mood are presented. At approximately mid-year there is a change in the emphasis to the reading and writing components of the language. Students extensively study and use the subjunctive mood of the verb within the context of art and literature. The pacing of this course is faster than that of Spanish III, and activities are developed to help enrich and enhance the understanding of the language. (An added value of 0.5 will be added to the quality point average per grade, i.e., A = 4.5, B = 3.5, C = 2.5, etc.)
HS0540  SPANISH III  Grade 10,11,12
One year - 5 periods  1 credit

Prerequisite: "C" or better in Spanish II

Spanish III begins with a review of verb tenses and key grammar points presented during Spanish I and Spanish II. Initially, listening and speaking skills continue to be emphasized while applying them to new and different everyday and/or survival situations (e.g., shopping for clothing, dining out, traveling abroad). New grammar points and new verb tenses in the indicative mood are presented.

At approximately mid-year there is a change in the emphasis to the reading and writing components of the language. Students extensively study and use the subjunctive mood of the verb within the context of art and literature.

HS0543  SPANISH IV HONORS  Grades 11,12
One year - 5 periods  1 credit-honors weight

Prerequisite: "B" or better in Spanish III

Spanish IV offers students an extensive review of all verb tenses studied to date as well as key grammar points while continuing to introduce new verb tenses and grammar points. The emphasis in Level IV is upon reading and writing. The reading selections are representative of Hispanic culture and civilization and include a variety of texts such as fictional narratives, poems, essays, and historical accounts. Spanish IV has been designated as an honors course. (An added value of 0.5 will be added to the quality point average per grade, i.e., A = 4.5, B = 3.5, C = 2.5, etc.)

HS054  ADVANCED PLACEMENT SPANISH  Grade 12
One year – 5 periods  1 credit – AP weight

Prerequisites: Teacher recommendation and a final grade of at least B in Spanish IV.

This AP Spanish Language course is comparable to an advanced level (5th- and 6th-semester or the equivalent) college Spanish language course. Emphasizing the use of Spanish for active communication, it encompasses aural/oral skills, reading comprehension, grammar, and composition.

The course objectives are to help you:

- understand Spanish spoken by native speakers at a natural pace, with a variety of regional pronunciations, in both informal (interpersonal) and formal (presentational) contexts;
- develop an active vocabulary sufficient for reading newspaper and magazine articles, contemporary literature, and other non-technical writings (websites, letters and emails, advertisements, signs and instructions) in Spanish without dependence on a dictionary;
- express yourself by describing, narrating, inquiring, and developing arguments in Spanish, both orally and in writing, with reasonable fluency, using different strategies for different audiences and communicative contexts.

In this course, special emphasis is placed on the use of authentic source materials and the integration of language skills. Therefore, you should receive extensive training in combining listening, reading, and speaking (or listening, reading, and writing) skills in order to demonstrate understanding of authentic Spanish-language source materials. (An added value of 1.0 will be added to the quality point average per grade, i.e., A = 5.0, B = 4.0, C = 3.0, etc.)
**BUSINESS DEPARTMENT**

**COURSE DESCRIPTIONS**

**HS0604 INTRO TO BUSINESS**
Grade 9, 10, 11, 12
Semester – 5 periods
.5 credit

This is an introductory business course designed to provide students with the skills needed to understand business. This course includes business management and entrepreneurship, communications and interpersonal skills.

**HS0612 BUSINESS LAW**
Grade 9, 10, 11, 12
Semester – 5 periods
.5 credit

This course is designed to help students learn about their legal rights and responsibilities. The course explores many important social and ethical issues with emphasis on tort law, and the basics of criminal and contract law.

**HS0620 LABOR/EMPLOYMENT LAW**
Grade 9, 10, 11, 12
Semester – 5 periods
.5 credit

This course is designed to explore true situations that show how business and personal law impacts not only business but the lives of real people. The course explores the concept of consumer law, workplace law, and cyberlaw.

**HS0617 PERSONAL FINANCE**
Grade 10, 11, 12
Semester – 5 periods
.5 credit

This course is an absolute MUST for any high school student. The overall goal of this course is to give students a focus on how to manage common financial issues. Topics include budgets, payroll, checking accounts, savings, interest, credit, buying a car, buying a house, insurance, and taxes. Understanding and managing personal finances are key to one’s future financial success.

**HS0605 HOW TO BUILD YOUR OWN SMALL BUSINESS**
Grade 10, 11, 12
Semester – 5 periods
.5 credit

If your dream is to run your own small business, this is the course for you. Students learn the basics of planning and launching their own successful business. This course helps students develop the core skills they need to be successful. Learn how to come up with new business ideas, attract investors, market your business, and manage expenses. Turn your ideas into reality. Class covers Entrepreneurship, Marketing and Bookkeeping for small business.
HS0606/HS0609 ACCOUNTING 1 and ACCOUNTING 2 (MUST BE TAKEN TOGETHER)
ACCT 1 HS 0606 - Grade 10, 11, 12
Semester – 5 periods .5 credit

ACCT 2 HS 0609
Semester – 5 periods .5 credit

ACCOUNTING 1 is a must for any college-bound student, especially anticipated accounting, business, finance or marketing majors, because it will provide him/her with a solid accounting foundation. Accounting I introduces concepts and principles based on a double-entry system of maintaining manual financial records for a sole proprietorship. It includes analyzing business transactions, journalizing, posting, and preparing worksheets and financial statements.

ACCOUNTING 2 will complete the accounting cycle for the sole proprietorship. Course includes review and full cycle simulations.

(ACCOUNTING 1 MUST BE COMPLETED WITH C OR HIGHER TO CONTINUE TO ACCOUNTING 2.)

HS0610 ACCOUNTING 3 Grade 10, 11, 12
Full year course (Accounting 1 and 2 prerequisite) 1 credit

The students will be able to complete the accounting cycle for a merchandising business organized as a partnership. The course explores several different areas of accounting such as departmentalized accounting, accounting control systems and general accounting adjustments. Students will gain experience with both manual and computerized accounting.

HS0607 ACCOUNTING 4 Grade 11, 12
Advanced Accounting - Full year course (Accounting 3 prerequisite) 1 credit

The students will be able to complete the accounting cycle for a merchandising business organized as a corporation. This course will develop the students accounting knowledge through both manual and automated means. Students will explore several different areas of accounting such as corporate, managerial and cost accounting.
Accounting I is a must for any college-bound student, especially anticipated accounting, business, finance or marketing majors, because it will provide him/her with a solid accounting foundation. Accounting I introduces concepts and principles based on a double-entry system of maintaining manual financial records for a sole proprietorship. It includes analyzing business transactions, journalizing, posting, and preparing worksheets and financial statements.

Accounting 2 will complete the accounting cycle for the sole proprietorship. Course includes review and full cycle simulations.

The students will be able to complete the accounting cycle for a merchandising business organized as a partnership. The course explores several different areas of accounting such as departmentalized accounting, accounting control systems and general accounting adjustments. Students will gain experience with both manual and computerized accounting.

The students will be able to complete the accounting cycle for a merchandising business organized as a corporation. This course will develop the students accounting knowledge through both manual and automated means. Students will explore several different areas of accounting such as corporate, managerial and cost accounting.

This is an introductory business course designed to provide students with the skills needed to effectively live in our world. This course includes business management and entrepreneurship; communication and interpersonal skills; economics; and professional development foundations. Instructional strategies may include the development of a business plan, product, computer/technology applications, real and/or simulated occupational experiences, or projects related to business ownership.
**HS0617 PERSONAL FINANCE**
Grade 10, 11, 12
Semester – 5 periods .5 credit

*Foundations in Personal Finance* will change your financial future. You are on a path to win with money, allowing you to change the way you look at money forever. You will be empowered, equipped and entertained while building confidence in your own financial decision-making.

**HS0612 BUSINESS LAW**
Grade 9, 10, 11, 12
Semester – 5 periods .5 credit

This course is designed to help students learn about their legal rights and responsibilities. The course explores many important social and ethical issues with emphasis on trials, the appeals court process, and the basics of criminal and contract law.

**HS0620 LABOR/EMPLOYMENT LAW**
Grade 9, 10, 11, 12
Semester – 5 periods .5 credit

This course is designed explore true situations that show how business and personal law impacts not only business but the lives of real people. The course explores the concept of consumer law, workplace law, and cyber law.

**HS0613 ENTREPRENEURSHIP**
Grade 9, 10, 11, 12
Semester – 5 periods .5 credit

This course helps students learn how to develop an innovative idea and write a business plan. Students’ must also understand production, marketing, finance, human resources, creativity, flexibility, and problem-solving. Students’ are encouraged to shadow a small business owner in the community.

**HS0171 CAREER AWARENESS (FRESHMEN ONLY)**
Grade 9
Six weeks – 5 periods .25 credit

A six-week course which motivates students to start thinking about their future careers. Students will assess their skills, abilities, and interests. Students will utilize this information to analyze how their qualifications match specific job requirements. After identifying a chosen career, they will explore the career’s working conditions, education needed, annual wage, and job outlook. They will complete a high school plan of study, look at postsecondary schools, and complete a job application for and resume which will assist in their individualized electronic career portfolios as a component to the GRADUATION PROJECT.
VISUAL ARTS

“Thought is impossible without an image.” – Aristotle

Courses offered at the high school are arranged with a progression set up for the student to follow and contain prerequisites to ensure students have prior knowledge of the content that is being taught.

**All students are required to begin the progression of art courses with Introduction to Art or Introduction to Illustration & Mixed Media unless students have teacher Recommendation by Mr. Mann or Mrs. Rowe.**

(Yearlong – 2 semesters) (1/2 yearlong- 1 semester)

**Art III**
Introduction to Art
**Art IV**
Introduction to Illustration & Mixed Media
Crafts
Art History
Introduction 2-Dimensional Art**
Introduction 3-Dimensional Art**
Drawing **
Painting**
(** courses contain a prerequisite)

**All courses have a prerequisite except Introduction to Art, Introduction to Illustration and mixed media & Crafts**

HS0712 INTRODUCTION TO ART Grade 9, 10, 11, 12
One semester .5 Credit

Not sure if art is for you? Try this introduction Art course. We will explore the fundamentals of art, including drawing, painting, crafts, and ceramics. You will be taught beginning skills that will enhance your art work, and give you confidence in future art classes. You will learn basic knowledge of styles, and the artists who were influential within the movements. No prior art experience is necessary and upon completion, the student can decide if they would like to pursue more advance level classes and follow a path that will lead to an area in art they find interesting.

**This course is designed for the true beginner who has not had an art class for a few years.**

**YOU MUST PASS INTRODUCTION TO ART WITH A “C “OR BETTER TO PURSUE UPPER LEVEL ART CLASSES**
INTRO TO ILLUSTRATION AND MIXED MEDIA

One semester

Grade 9, 10, 11, 12

.5 Credit

This semester course introduces students to the ideas of illustration and the principles of design needed to develop strong artistic images. Projects emphasize the development of creative attitudes and solutions to illustration problems. Through practical studio procedure, students will have the opportunity to experience diverse areas of illustration and be presented with a foundational overview of color and design theory for the visual artist. Basic color theory will be addressed, as will the applications of color across a variety of traditional mediums. These projects include bold black and white projects with markers, cartooning, advertising, jewelry making, enameling, glass etching, decoupage, mask and creature making. Students need to have a basic ability to sketch to express their ideas. This course develops students’ skills in visual conceptualization and improves overall design.

**This course is designed for the true beginner who has not had an art class for a few years.**

YOU MUST PASS INTRODUCTION TO ILLUSTRATION AND MIXED MEDIA WITH A “C” OR BETTER TO PURSUE UPPER LEVEL ART CLASSES**

CRAFTS

One semester

Grade 9, 10, 11, 12

.5 Credit

The semester course introduces students to the art of craft making. This hands-on course will allow students to create art based on historical and cultural art that often times was used as functional creations. These include jewelry making, enameling, glass etching, decoupage, masks, and dioramas. Materials can be non-traditional, and students are able experiment with different media to come up with a quality end result that satisfies the idea behind art as “culture, function, and/or decoration.” Students will need to research their ideas to understand how and why certain techniques are used.

**This course is designed for the true beginner who has not had an art class for a few years.**

ART HISTORY

One semester

Grade 9, 10, 11, 12

.5 Credit

This semester course will focus upon the role of art and artists in culture and the history of art-making. A study of traditional stylistic eras and movements, the investigation of works of art to determine origin, history, impact upon art and artists and interpretations of meanings will be explored. Works of art will be investigated in light of broad social, political and cultural themes that underscore art as an exciting and important form of human activity and accomplishment. In addition to supplemental reading material provided by the teacher, students will be required to utilize library and Internet resources. Homework, test material and daily class participation is essential for the success of this course. Complementing the traditional course of study,
“Introduction to Art History” will involve its students with hands-on experience in a variety of art techniques and participate in a visit to the Carnegie Museum.

** THIS COURSE IS ONLY OFFERED EVERY FEW YEARS DEPENDING ON THE NUMBER OF STUDENTS WHO SIGN UP FOR THE CLASS**

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<tr>
<td>HS0703</td>
<td>INTRODUCTION TO 2-DIMENSIONAL DESIGN **</td>
<td>10, 11, 12</td>
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Prerequisite: Passing grade of a “C” in Introduction to Art or Introduction to Illustration & Mixed Media classes or by teacher recommendation

This drawing course is designed to give the student who is interested in art an opportunity to cover several concepts and to solve various problems. The student will demonstrate, through assigned projects, what has been learned about realistic, abstract, and non-objective drawing. Some of the drawing concepts to be covered are contour, gesture, volume, line, and value drawing. Students will work with various backgrounds, media, materials, and tools. The media might include pencils, pen and ink, crayon, graphite stick, colored pencils, markers, scratchboard, charcoal, and mixed media.

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<td>HS0706</td>
<td>INTRODUCTION TO 3 D DESIGN &amp; CERAMICS</td>
<td>10, 11, 12</td>
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Prerequisite: Passing grade of a “C” in Introduction to Art or Introduction to Illustration & Mixed Media classes or by teacher recommendation

Three-dimensional Design & Ceramics is a course created for the student who is interested in art to experiment and create three-dimensional works of art using a variety of techniques and materials. For the students planning to further their education in some type of artistic discipline this course will enable them to develop a well-rounded portfolio. Students exploring their interests through the lessons in three-dimensional design will learn and fine-tune many skills that will be beneficial to them in any future. Three-dimensional Design and Ceramics will introduce students to the creation of 3Dimensional art using multiple medium that include but are not limited: ceramics, plaster, paper mache, cardboard and found objects. This course requires a hands-on-attitude for those who don’t mind getting their hands dirty.
**HS0700   DRAWING I**

Grades: 10, 11, 12

One semester

.5 Credit

**Prerequisite:** A passing grade of a “B” in **2D Art**

This second level drawing course is designed to follow up after the 2Art course to give the student an opportunity to cover more advanced concepts and to solve various problems on paper. The student will demonstrate, and expand on prior knowledge through assigned projects, what has been learned about realistic, abstract, and non-objective drawing. Some of the drawing concepts to be covered are contour, gesture, volume, line, and value drawing. Students will work with various backgrounds, media, materials, and tools with a heavy concentration on the human anatomy and realism. The media might include pencils, pen and ink, graphite stick colored pencils, charcoal, and mixed media.

**HS0701   PAINTING I**

Grades: 10, 11, 12

One semester

.5 Credit

**Prerequisite:** A passing grade of a “B” in **2D Art or Drawing**

The painting course will allow students to learn color theory in monochromatic and analogous paintings. Emphasis will be placed on control of value and intensity within each painting. Paintings will be done in realistic, abstract, impressionistic, and non-objective styles. In employing subject matter and composition, we may use reference material such as books, magazines photos, still life setups, on-location drawings, and imagination. Media used may be water color, tempera, tissue, acrylic, ink, markers, and mixed media.

**HS0709   ART III**

Grade 11, 12

One year

1 Credit

**Prerequisite:** Students need to have followed the suggested level of courses and have passed all previous art courses including, 2D Art, 3D Art, Drawing and Painting with a passing grade of a “B” and include teacher recommendation

This third level art class continues to build upon the knowledge learned in the previous introduction to 2 Dimensional and 3 Dimensional courses. Students begin to work independently and motivation is needed to do well mastering the skills needed to pursue art as a career in the future. Emphasis is placed upon improving ones skill to an acceptable level along with a creative and logical thinking process to complete the projects that are required. Students will continue learning art history and the value of good critiques.
HS0710  ART IV  
Grade 12  
One year  
1 Credit  

Prerequisite: Passing grade of a “B” in Art III and teacher recommendation 

The fourth level art class is for the serious artist only. These students are pursuing a career in an art field and working toward being accepted into a field of art after high school. Students will be expected to work independently creating a portfolio highlighting their best work. Students will be expected to create all original pieces of work both realistic and abstract, while being creative in their choice of material and the execution of the projects. Upon completion of the class, students will have a completed book to use towards acceptance into a college or trade school.

HS0708 ADVANCED ART CLASS  
Grade 12  
One semester  
.5 Credit  

Prerequisite: Passing grade of a “B” in ART 4 and teacher recommendation 

Students wishing to enroll in any Advanced Art class must receive written teacher approval. This class works as an independent study geared to the student that has completed all offered art classes and wants to expand their work and rework a certain discipline that they previously worked in.

HS0840 RETAIL PRODUCTION AND ENTREPRENEURSHIP  
Grade 10,11,12  
One semester  
.5 Credit  

Do you look at t-shirts and think, "I could design something better than that!" Designing and printing t-shirts is big business right now. This semester course introduces students to the heat press process of producing goods for a retail or online store. Students need a background in art and graphics to succeed in this class. Students will design and produce shirts, mugs, bags etc. that will be used by clubs and for special events throughout the school year. Students will learn the entire process from the beginning of the design through the final sales of the goods. Students will also learn the business side of starting a heat press business and will be required to solicit businesses for sponsorships for some projects.

**YOU MUST PASS A 2nd LEVEL ART CLASS AND GRAPHICS 1 WITH A “B “OR BETTER & HAVE TEACHER RECOMMENDATION TO PURSUE THIS UPPER LEVEL CLASS**
Music and Theater

OBJECTIVES:
The general objectives of the music courses at West Mifflin Area High school are:

- To develop the skills of reading music notation
- To develop the technical abilities necessary to sing or play music
- To develop listening skills
- To develop skills of interpretation
- To acquire an appreciation for music and the related fine arts
- To develop skills to create, produce, and record music
- To develop improvisational skills
- To evaluate the work of one’s self and others
- To acquire a knowledge of history and culture as it relates to music and the fine arts
- To develop skills utilizing the latest available technology as it relates to various music applications

It is also intended that the music courses will result in the student possessing the ability to use critical thinking skills to make value judgments in the fine arts and practical domains based upon aesthetic principles.

For those students who participate in performing ensembles, it is intended that they will acquire positive attitudes toward responsibilities to one’s self, the ensemble, performances; and to recognize and respect the values of others.

COURSE OFFERINGS

**HS0716 WIND ENSEMBLE**

Grades: 10, 11, 12

One year

1 Credit

This class is open by audition to any sophomore, junior or senior student (freshman with teacher approval) and meets daily for one forty-two minute period and is taught by a music teacher with background in instrumental music. Wind Ensemble is designed to teach upper level band (level 3.5 – 6) students a variety of music compositions and arrangements meant for college bound or advanced instrumentalists.
This instrumental ensemble is open to any qualified tenth, eleventh, or twelfth grade student who plays a band instrument. This ensemble will rehearse daily for one forty-two minute period and is taught by a music teacher. This course is divided into marching band and concert band. The scheduled class time is devoted to learning of both marching band music and concert band music. The performance schedule dictates the music to be rehearsed. The repertoire includes music from many eras appropriate to the abilities of a high school band student. This ensemble performs at football games, parades, appropriate assemblies, evening concerts, and select performances suitable for this ensemble.

This instrumental ensemble is open to any qualified ninth grade student who plays a band instrument. This ensemble will rehearse daily for one forty-three minute period and is taught by a music teacher. This course is divided into marching band and concert band. The scheduled class time is devoted to learning of both marching music and concert music. The performance schedule dictates the music to be rehearsed. The repertoire includes music from many eras appropriate to the abilities of a high school band student. This ensemble performs at football games, parades, appropriate assemblies, evening concerts, and select performances suitable for this ensemble.

This instrumental ensemble is filled by audition only. This ensemble will rehearse daily during the homeroom period and after school from 2:45 – 4:00 pm on Mondays and is taught by a music teacher with background in instrumental music and the jazz genre. The performance schedule dictates the music to be rehearsed. The repertoire includes all types of jazz and blues from the eras of American Jazz & Pop music. All music should be appropriate to the abilities of a high school band student. This ensemble performs at appropriate assemblies, evening concerts, and select performances suitable for this ensemble.

The Orchestra rehearse daily for one, forty-two minute period. The ensemble is open to any qualified student in grades 9-12 of string, woodwind, brass, or percussion instruments. The HS Orchestra’s repertoire includes music from the Renaissance through the Contemporary periods along with American Popular music from the early 1900's through the present day. The Orchestra performs evening concerts and serves as the pit orchestra for the high school “Broadway” Musical productions. Some after school and evening rehearsals are required.
HS0721  CONCERT CHOIR  
Grades: 9, 10, 11, 12 
Full year  
One semester or every other day  
Do you want to learn how to become a better singer and learn how to harmonize with others? Do you want to make new friends that also enjoy music? The Concert Choir is for any 9, 10, 11, or 12th grade student wishing to learn how to sing and/or improve his or her vocal skills. This ensemble meets 5 days a week for a full year or for one semester. Students will learn a wide variety of music including popular music from the early 1900's to the present. All students will acquire the skills to develop proper singing techniques, read music notation, and learn how to sight sing. The Concert Choir performs at appropriate assemblies and evening concerts. This course will promote confidence and discipline while teaching students how to connect with the audience for an entertaining performance in a positive learning.

HS0718  TITAN CHORALE  
Grades: 10, 11, 12 
Full year  
One semester or every other day  
Call this all-female choir treble threat! Titan Chorale is an energetic female vocal ensemble that will challenge students to sing in close harmonies to make their singing skills pitch perfect. Students will enjoy a positive singing environment that promotes friendship while making music. This course is open to any 10, 11, or 12th grade student with some singing experience wishing to improve her vocal skills. This ensemble will perform more advanced choral selections, learn basic music theory, and sight-reading skills to aid in daily music reading helping to develop you into a solid musician. This course will promote confidence and discipline while teaching students how to connect with the audience for an entertaining performance. The Titan Chorale performs at appropriate assemblies and evening concerts.

HS0720  SHOW CHOIR  
Grade 10, 11, 12 
Full year  
This course will help students to develop vocal skills and choreography techniques while learning how to connect with the audience for an energetic and exciting performance. This course will also promote confidence, discipline, and teach young performers how to perform dynamically on stage. Being a member of the Show Choir will also give students the opportunity to use their creativity to choreograph and teach dance numbers. This vocal ensemble is for a full year and meets 5 days a week and is open to male or female students by audition. The repertoire includes popular music, Broadway show music, a cappella, holiday selections, and various jazz styles from the early 1930's to the present. All students are required to dance and sing as a member of the ensemble. The Show Choir performs at many assemblies, outside venues, and evening concerts. Only by Audition.
HS0734  MUSIC THEORY  Grade 10, 11, 12  One year  1 Credit

This class is open to any junior or senior student that can play an instrument and read music. The class is year-long and meets daily for one forty-two minute period. Music Theory is designed to expose students to the highest intellectual level of musical thinking in preparation for a university music curriculum and the AP Music Theory Test. Students will learn about the basic elements of music in depth and utilize that knowledge to write a modern classical composition.

Prerequisite for Music Theory is recommendation of music teacher that has witnessed student’s ability to read musical notation and perform at least at an intermediate performance level on that student’s main instrument.

HS0727  MUSIC TECHNOLOGY I (ROCK BAND BASICS)  Grade 9, 10, 11, 12  1 Semester  .5 Credit

This class is open to any Freshman, Sophomore, Junior or Senior student and meets daily for one forty-two minute period. It is taught by a music teacher with background in computers, electronic instruments, appropriate software, sound reinforcement equipment, music theory, arranging, composition and sound production. Modern Band I is designed to teach the basics of playing electronic instruments to prepare students for music arranging, composition, creative writing, and performance in various styles used by the Modern Band (such as, rock, pop, R&B, hip-hop, reggae, and country). There are no prerequisites for Modern Band I, but students recommended by teachers should be given preference.

HS0729  MUSIC TECHNOLOGY II (Recording & Arranging)  Grade 9, 10, 11, 12  1 Semester  .5 Credit

This class is open to any Freshman, Sophomore, Junior, or Senior student and meets daily for one forty-two minute period. It is taught by a music teacher with background in computers, electronic instruments, appropriate software, sound reinforcement equipment, music theory, arranging, composition and sound production. Modern Band II is designed to teach students that have learned the basics of playing electronic instruments to create arrangements and record music in preparation for composition, creative writing, and performance of their own material in various styles used by the Modern Band (such as, rock, pop, R&B, hip-hop, reggae, and country). Prerequisites: Passed Music Technology I and teacher recommendation.

HS0730  ADVANCED MUSIC TECHNOLOGY III (Writing and Recording)  Grade 10, 11, 12  1 Full Year  1 Credit

This class is open to any Sophomore, Junior or Senior student and meets daily for one forty-two minute period. It is taught by a music teacher with background in computers, electronic instruments, appropriate software, sound reinforcement equipment, music theory, arranging, composition and sound production. Modern Music III is designed to combine the most current
technology of electronically produced music with similarly advanced computer applications to teach music arranging, composition, creative writing and performance in various styles used by the Modern Band (such as, rock, pop, R&B, hip-hop, reggae, and country).

*Prerequisites: Passed Modern band I and II and teacher recommendation.*

**HS0731 THEATRE TECHNOLOGY I**

Grades 9, 10, 11, 12

One Year

1 Credit

This full year elective course is open to all freshman, sophomore, junior, and senior students and has a value of one credit. This course focuses on basic elements of the Technical Theatre starting with terminology and career paths. We will then proceed to scenic construction methods, lighting fixtures and console operation, as well as audio system setup and live sound mixing. Along the way students will be introduced to basics in theatrical/building management, rigging, and production management. The goal is to provide students with a solid base if they would like to pursue a career in technical theater, and give every student transferrable skills they can use in the future. Students who elect this course are required to participate as active members of the Stage Crew. Stage Crew participation includes after school activities such as the Spring musical production, Fall/Spring plays, music department concerts, and school district/community events that take place in the high school auditorium.

**HS0736 THEATRE TECHNOLOGY II**

Grades 10, 11, 12

One Year

1 Credit

This full year elective course is open to sophomore, junior, and senior students who have completed Theatre Technology I. This course focuses on advanced technical elements of the theatre including light programming, recorded and live sound production, staging/rigging, and set design/construction. The goal is to provide students with a solid base if they would like to pursue a career in technical theater, and give every student transferrable skills they can use in the future. Students who elect this course are required to participate as active members of the Stage Crew. Stage Crew participation includes after school activities such as the Spring musical production, Fall/Spring plays, music department concerts, and school district/community events that take place in the high school auditorium. **Teacher recommendation is required**

**HS0732 DRAMA I**

Grades: 9, 10, 11, 12

One Semester

.5 Credit

Experience how acting can build your self-confidence and help you feel more comfortable presenting yourself in front of others. This course is an exciting and fun way to learn more than just the basics of acting. The purpose of this semester class which meets 5 days a week for one period is to give any 9th through 12th grade student an increased appreciation of and additional experience in all aspects of theater. Students will study various acting techniques, theatre terms, vocal acting, and apply these elements to various scripts and performances. All students will be required to perform in front of the class and learn how to work cooperatively with others. Students will also learn audition, rehearsal, and directing techniques and have the opportunity to
write short skits to be performed. This course will also promote confidence, discipline, and teach young performers all about life on the stage all while giving you a creative outlet! Students who are successful in this course will have the opportunity to be recommended for the next level class Drama II.

**HS0733 DRAMA II/Advanced Acting Techniques**
**Grades: 10, 11, 12**

This full year course, which meets 5 days a week for one period, is open to 10th-12th grade students recommended by the teacher after completion of one of the introductory drama courses. Students will gain theatrical experience and an advanced appreciation of all aspects of theater. Students will build upon various acting techniques learned in Drama I, Introduction to Improvisation, and/or Music Theatre and apply these elements to various scripts and performances. Students will also learn audition, rehearsal, and directing techniques and have the opportunity to write scenes and skits to be performed. Students will also study plays, musicals, and characterization more in depth. Students will participate in some facet in a dramatic performance at the discretion of the teacher whether it is a fall play, one act plays, student written skits, dinner theater, scene night, or a musical review. Students in Drama II will also have opportunities to compete in local monologue competitions.

**HS0737 Whose Line Is It? Introduction to Improvisational Acting**
**Grades 9, 10, 11, 12**

One Semester

Do you enjoy making people laugh? Are you full of energy and creativity? This course is for you! Introduction to Improvisational Acting is a semester course that meets 5 days a week and will introduce students to the many facets of improvisational acting. Students will experience various acting games and warm-ups that will inspire their freedom of creativity. Experience how acting can build your self-confidence and help you better present yourself in front of others. This course is an exciting and fun way to learn the basics of acting while learning how to work cooperatively with others. Emphasis will also be placed on learning performance skills such as connecting with the audience and telling a story through your performance. This course will also promote confidence, discipline, and teach young performers all about life on the stage. Students who are successful in this course will have the opportunity to be recommended for the next level classes Drama I and II.

**HS0738 So, You Want to Be on Broadway? Introduction to Musical Theatre**
**Grades 9, 10, 11, 12**

One Semester

If you cannot stop listening to “Hamilton”, “Dear Evan Hanson”, or even classic show tunes, this course is for you. This semester course that meets 5 days a week for one semester and will introduce students to the exciting world of musical theatre. Students will learn basic singing and acting techniques while experiencing various music theatre styles. This course will also teach students how to find appropriate songs for their vocal range, acting ability, and how to better prepare for auditions. Emphasis will also be placed on learning how to connect with the audience through your performance. This course will also promote confidence, discipline, and teach young
performers all about life on the stage! Students who are successful in this course will have the opportunity to be recommended for the next level classes Drama I, II, and even the Show Choir.
The major focus of Family and Consumer Sciences (Food & Nutrition) courses at West Mifflin Area High School is the development of skills and promotion of values that enhance both work and family life. In these Family and Consumer Sciences courses, students practice life skills related to wise consumerism, good nutrition and health, safe food handling skills, and appropriate social and workplace behavior. Guided by Pennsylvania Academic Content Standards and reinforced by hands-on learning, students have a unique opportunity to develop their interests, talents, and potential.

**HS0805 FOOD AND NUTRITION I**  
Grades: 9,10,11,12  
One Semester – 5 Periods  
.5 Credit

This introductory course is designed to provide rigorous and relevant learning experiences for students to study the principles of nutrition for individual and family health, fitness, and wellness. Students will gain knowledge and experiences in nutrition, food safety and sanitation, kitchen work centers, meal preparation, table service and etiquette, and appliance use. Weekly laboratory instruction allows students to explore concepts and practice techniques learned in class. Basic skills of math, science, and communication, when appropriate in content, will be highlighted.

**HS0825 FOOD AND NUTRITION II**  
Grades: 9,10,11,12  
One Semester – 5 Periods  
.5 Credit

**Prerequisites:** Student MUST have completed Food and Nutrition I with a “C” or above.

This course is designed to assist students in making critical decisions about food, which contributes to health and well-being. Laboratory instruction is included as an application process. Practical problems addressed relate to attitudes toward food, nutrition facts, special health concerns and diets, management of food resources, preparation skills and careers in nutrition and food service. Basic skills of math, science, and communication, when appropriate in content, will be highlighted.

**HS0803 CULINARY ARTS I**  
Grades: 10,11,12  
One Semester – 5 Periods  
.5 Credit

**Prerequisites:** Student MUST have completed Food and Nutrition I and Food and Nutrition II and received a “C” or above.

This course will provide students with the basic skills required for entry level work in a bakery or pastry shop of a restaurant or hotel. These skills include: working in a safe and sanitary manner; working as part of a team; reading and accurately following a recipe; proper mixing,
make-up and baking of yeast raised breads, cookies, cakes, pies and tarts; cake icing; basic decorating techniques using a pastry bag; plating techniques. Students will also explore various careers in the industry. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. Weekly laboratory instruction allows students to explore concepts and practice techniques learned in class. Basic skills of math, science, and communication, when appropriate in content, will be highlighted.

HS0804 ADVANCED CULINARY ARTS Grades: 11,12
One Year 1 Credit

Prerequisites: Student MUST have taken Food and Nutrition I, Food and Nutrition II, and Culinary Arts I and received a “C” or above. Also, this course requires instructor recommendation.

In this course students will examine food safety, cooking methods, eating habits, and dietary guidelines of various cultures around the world. By investigating cultural, spiritual, and social influences on food choices students gain an awareness and understanding of diverse populations within our society. Students will develop independent study projects and explore various careers available in the industry. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. Weekly laboratory instruction allows students to explore concepts and practice techniques learned in class. Basic skills of math, science, and communication, when appropriate in content, will be highlighted.

**Philosophy of the Child Development Curriculum**

The philosophy of the child development program at West Mifflin Area High School is to provide students with the knowledge of research and theory currently in practice. FCS students will be provided with the skills necessary to teach preschoolers at their own level or what is developmentally appropriate for their abilities.

This knowledge will be gained and mastered through completion of formal and informal observation, classroom assignments, readings, research, tests and individual portfolio. Content of the child development classes will include safety, health, parenting, nutrition, and developmental stages of the preschooler.

FCS students will follow all applicable regulations in order to provide an environment that is safe and academically stimulating.
**HS0821 CHILD DEVELOPMENT - PARENTING AND FAMILIES**

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<th>Grades</th>
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<td>Grades 9,10,11,12</td>
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<td>One semester – 5 periods</td>
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<td>Prerequisite: None</td>
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This course is designed to help students acquire knowledge and skills to use in everyday life. Students will learn about healthy relationships, communicating and the function of families. The course stresses the risks of sexual activity so students are capable of making informed decisions. The course gives students the tools needed to talk about these subjects with their own families. Students will gain knowledge about pregnancy and what occurs in the body during pregnancy and why care during pregnancy is so important to an unborn baby. During the course there will be several projects to learn about your own heredity, genetic and birth defects, and also what pregnancy is like in other cultures. The course is very informative and engaging for students in any grade level.

**HS0824 CHILD DEVELOPMENT - WORKING WITH CHILDREN**

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<td>One semester – 5 periods</td>
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<td>Prerequisite: None</td>
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This course is designed for any student that would like to learn how to work with and/or teach young children. Working with Young Children the prerequisite course for any student that would like to take the Child Development Lab Course. The course is designed to help students develop skills to guide, discipline, and educate children effectively. The course will focus on the four main types of development: physical, social, emotional, and intellectual. With each area of development students will learn how to create and implement lessons for children at the preschool age-level. Students will also gain knowledge of how to effectively and safely operate a preschool classroom and effective babysitting techniques. During every unit students will complete a mini-lab that will result in students presenting materials to either their group or the class. Students will also gain much knowledge that can be applied to teaching any grade level, such as lesson plan writing. This course is suggested for those that plan on pursuing teaching as a career.

**HS0823 CHILD DEVELOPMENT LAB**

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<th>Grades</th>
<th>1 Credit</th>
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<td>Grades 11, 12</td>
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<td>One semester – 5 periods</td>
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<td>Year Long - 5 periods</td>
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<td>1 credit (Maximum credits: 2 total)</td>
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**Prerequisite: “C” or better in “Working with Children” class + permission from instructor**

In this class students will be working hands on with preschool children that have been enrolled into the program from the West Mifflin Area Community. Professionalism and maturity is a must from all students that enroll in this class. Lab is a participation-based class, where students will learn to engage with and teach children effectively. Students will be required to write and present preschool lessons on a weekly basis as well as compile a case study on a child in the program. Students will also be required to complete a portfolio of work they have completed in the class that can be used for future college or career interviews. This course is an excellent selection for any student interested thinking about a career choice in education or child development.
From the clothes we wear to the homes we live in, fashion and design is all around us. In this course, students who have a flair for fashion or who constantly redecorate their room find out what it is like to work in the design industry by exploring career possibilities and the background needed to pursue them. Students try their hand at designing as they learn the basics of color and design, then test their skills through hands-on projects. In addition, they develop the essential communication skills that build success in any business. See teacher for a list of needed supplies for the course.
TECHNOLOGY EDUCATION

“Using Technology to Solve Problems”

The Technology Education Department is dedicated to providing students an understanding of how technology works to help solve problems. The content and activities of the curriculum use methods of discovery, problem solving, designing, creating, and constructing using various tools, equipment, machines, and materials within the systems of transportation, construction, communication, and manufacturing.

We offer courses in 3 major areas:
Manufacturing • Computer Graphics • Video/Animation

No Pre-Requisite Courses:
Intro to Manufacturing
Robotics
Intro to Computer Graphics
Intro to Video & Animation
Titan TV
Morning Broadcast
Photography
Yearbook Design

Pre-Requisite Courses:
Manufacturing
Advanced Manufacturing
Graphics
Advanced Graphics
3D Design & Printing
Advanced 3D Design & Printing
Retail Production & Entrepreneurship

*Semester Course

9TH GRADE EXPLORING TECHNOLOGY

EXPLORATORY, COMPUTER, & INDUSTRIAL TECHNOLOGY

The Exploratory, Computer, and Industrial Technology courses are activity-based that provide students the opportunity to participate in problem solving activities in one or more of the following technology related areas; communication, manufacturing, construction, and transportation. Students will be able to creatively pursue new knowledge and skills in Video, Animation, Photography, Graphic Design, Construction, Manufacturing, 3D Design, and Transportation
INTRODUCTION COURSES

Introduction courses are for any student looking to explore technology to see what types of careers there are so they can choose the appropriate career track.

**HS0875  INTRO TO MANUFACTURING**  
Grades 9-12  
One Year – 5 Periods  
.5 Credit

Intro to Manufacturing is an activity-based, hands on courses that provide students the opportunity to participate in problem solving activities in one or more of the following technology related areas; manufacturing and construction. Students will learn the basic tools, machines and safety aspects in a shop environment.

**HS0880  INTRO TO COMPUTER GRAPHICS**  
Grades 9-12  
One Semester – 5 Periods  
.5 Credit

This semester course is specifically for students interested in computer graphics. Students will be given a broad overview of the careers of graphic design and 3D design. Students will learn and apply software skills to create a variety of projects that could include: t-shirts, photo manipulation, key chains, and 3D printed objects.

**HS0886  INTRO TO VIDEO & ANIMATION**  
Grades 9-12  
One Semester – 5 Periods  
.5 Credit

This semester course is designed to introduce students to the planning, shooting and editing of YOUTUBE videos used within our Morning Broadcasts. All aspects of Videography discussed.
CORE COURSES

Core courses are pre-requisite courses for students are interested in the career track they have chosen. These are essential courses to take before going into the advanced courses.

*HS0874 MANUFACTURING Grade 10-12
One Year – 5 Periods
1 Credit

Prerequisite: Grade of a “C” or above in Intro to Manufacturing or Teacher Recommendation

This course is a full year introduction where students will continue to develop advanced skills in project design, wood identification, and the construction of appropriate projects from drawings. An introduction to computer-controlled machinery, as time permits, will ready each student for future coursework and careers. Projects are chosen in consultation with instructor.

*HS0868 ROBOTICS Grade 9-12
One Year – 5 Periods
1 Credit

An educational program created by the producers of the wildly successful BattleBots television series (in which homemade, remote controlled robots face-off in competition). Robotics (BattleBots) is a program of studies that unleashes the creative potential of mathematical reasoning, scientific analysis, and the clear articulation of ideas. BattleBots is about inventing, re-designing, and applying knowledge about robotics into a design that will engage in the art of combat; inventing a new dimension of learning and doing such through the invention of competitive robots. The BattleBots IQ Program places particular emphasis on student-centered design and the use of scientific inquiry. Maintaining a focus on interpersonal and communications skills while developing a practical understanding of related physical science and mathematics skills are essential components to the successful completion of a battling robot.

HS0881 GRAPHICS Grade 10-12
One Year – 5 Periods
1 Credit

Prerequisite: Grade of a “C” or above in Intro to Computer Graphics

This course provides the fundamental basics of design, illustration, and page layout through the use of Adobe Photoshop, Illustrator, and InDesign. As students’ progress through the course, they are trained in creative problem solving and learn to offer solutions that are effective in the graphic design industry. Example projects could include: logo design, SnapChat filters, cartooning, customized phone cases, and sublimation products like license plates, coasters, etc.

*This course can be taken every other day opposite a lab or gym class (schedule permitting).
HS0871  3D DESIGN & PRINTING  
Grade 10-12  
One Year – 5 Periods  
1 Credit

Prerequisite: Grade of a “C” or above in Intro to Computer Graphics

This course is designed to provide students with an opportunity to pursue skills and applications in mechanical and industrial design. Students will work on the drawing board as well as explore computer-aided drafting techniques (2D), 3-dimensional design, and 3D printing. Areas of study will include, but are not limited to: geometric construction, orthographic projection, conventional dimensioning practices, sectional views, auxiliary views, and pictorial sections. Students will also engage in an engineering problem solving activity to design, produce, test, and analyze products.

HS0888/HS0883  TITAN TV*  
Grade 9-12  
HS0883  One Semester – 5 Periods  
.50 Credit  
HS0888  One Year – 5 periods  
1 Credit

Course may be taken TWICE for credit.

The Titan TV course will provide students with a basic understanding of the technology behind video as an information medium, and some of the ways in which it is created to achieve its desired effect on an audience. Upon completion, students should be able to demonstrate production skills and techniques as it relates to producing a variety of video formats. Example formats include producing a school news program, video annual, team sports highlights, community documentaries, and promotional advertising commercials. The students in the Video Production curriculum will complete audio/visual productions which incorporate the appropriate use of technical equipment and the disciplines of scripting, picture composition, performance, directing, and editing in order to communicate to specific audiences. They will evaluate and determine the effectiveness of a production's success in achieving its purpose. Example projects include: fictional product commercial, public service announcement, music video, short story film, news cast, and current event interviews.
ADVANCED COURSES

Advanced courses are for students who plan to go into these careers after high school, either into the work force or continuing education.

HS0874 ADVANCED MANUFACTURING*
Grade 11-12
One Year – 5 Periods
1 Credit

Prerequisite: Grade of a “B” or above in Manufacturing or instructor permission

Course may be taken TWICE for credit.

The Advanced Manufacturing Processes involved with the design of products. Emphasis is placed on the analysis of the various machined components, including the design of the products, material selection, and fabrication. Examples of student learning activities include: design and producing a product, constructing jigs and fixtures, estimate the cost of a product, and conduct material research. Additional areas of emphasis include the design of fixtures as related to wood-machining processes, and machine shop drawings and information, including basic set up and operation of lathes, milling machines, grinders, drilling machines, and shapers. Example project include: book case, night stand, coffee table, Adirondack chair, CD rack, and golf caddy, and many more. Students will also design and develop project plans and blueprints for various projects. Students will utilize all machines and tools in the woodshop. Students will work on various projects including but not limited to; products for the school store, furniture for district/classrooms, shop design and improvements, as well as individual projects.

HS0884 ADVANCED GRAPHICS*
Grade 11-12
One Year – 5 Periods
1 Credit

Prerequisite: Grade of a “B” or above in Graphics or instructor permission

Course may be taken TWICE for credit.

This is an independent-study course emphasizing the aspects of layout, design, printing, assembling, and producing a media service for customers. Students will continue to learn advanced concepts in the areas of graphic design, page layout/typography, screen printing, large format printing, sign-making, etching, and portfolio design. All students will be required to assist in designing, printing, and finishing various publishing needs for the school district. Students in this course go on to major in fields such as Graphic Design, Multimedia Technology, Computer Animation, Industrial Design, Web Publishing, and Publishing/Advertising at universities or technical schools.

*This course can be taken every other day opposite a lab or gym class (schedule permitting).
ADVANCED 3D DESIGN & PRINTING*

Grade 11-12
One Year – 5 Periods
1 Credit

**Prerequisite: Grade of a “B” or above in 3D Design & Printing or instructor permission**

**Course may be taken TWICE for credit.**

This course is a continuation of the 3D Design & Printing class and is for any student who plans on pursuing a career in engineering, trades, architecture, or interior design. Students will continue with mechanical 3D drawings, but will also be introduced to basic and advanced concepts in architecture through the use of computer-aided drafting and 3D rendering software. Example projects include: reverse engineering, designing office layouts, sports stadium/complexes, amphitheater, and dream houses.

*This course can be taken every other day opposite a lab or gym class (schedule permitting).*

**EXTRA COURSES**

**HS0903 MORNING BROADCAST**
Grade 9-12
One Semester – 5 Periods
.5 Credit

The Morning Broadcast is a class that combines journalism with video. In this class students will first learn the art of researching a topic and then reporting it via writing/speaking. The experience of reporting news through video will be emphasized heavily during the course of the semester. The Morning Broadcast is all about creating a meaningful show each and every class. Video segments come together in a professional way, utilizing tools in the studio and classroom to produce engaging material that is entertaining, thought provoking, and showcases our school in a positive light. The studio team will run a show every day and must work as a team to have a seamless production.

**HS0893 PHOTOGRAPHY**
Grade 9-12
One Semester – 5 Periods
.5 Credit

The emphasis in this course is on the terminology and procedures used to take and product digital photographs. The names and functions of all the camera parts and adjustments will be taught throughout the course. Students will receive hands-on experience with digital cameras, scanners, and computer software. Adobe Photoshop will be used to enhance and manipulate digital photographs by color correction, selective coloring, special effects, filters, lighting and dodge/saturation techniques. Basic design and composition are also an integral part of this course. At the end of the semester, each student will be permitted to create a portfolio of his or her work on a CD or DVD. It is not required but recommended that each student have their own digital camera for the course. Independent and cooperative work is inherent for successful completion of this course.
HS0840 RETAIL PRODUCTION & ENTREPRENEURSHIP* Grade 10-12
One Semester – 5 Periods .5 Credit

Prerequisite: Teacher Recommendation

Do you look at t-shirts and think, "I could design something better than that!" Designing and printing t-shirts is big business right now. This semester course introduces students to the heat press process of producing goods for a retail or online store. Students need a background in art and graphics to succeed in this class. Students will design and produce shirts, mugs, bags etc. that will be used by clubs and for special events throughout the school year. Students will learn the entire process from the beginning of the design through the final sales of the goods. Students will also learn the business side of starting a heat press business and will be required to solicit businesses for sponsorships for some projects.

HS0750 YEARBOOK DESIGN* Grade 10-12
One Year – 5 Periods 1 Credit

Yearbook Design is a production-based elective course that creates The Titan yearbook. In this course, students will gain skills in the areas of page design, publishing techniques, copy writing, editing, and photography while producing a creative, innovative yearbook, which records school memories and events throughout the school year. Students will be responsible for taking digital photos, conducting interviews, composing, designing, and editing all elements of text, graphics, and digital layouts. This course requires students to be available outside of regular class time to attend sporting events, student activities, etc. Students are expected to be organized, motivated, creative, and possess strong reading and writing skills upon entering the class. Students are HIGHLY RECOMMENDED to take Photography or Graphics before signing up for this course.

*Must maintain a C average in English for the year.
TECHNOLOGY EDUCATION COURSE MAP

Technology Education Courses

- Intro to Manufacturing
  - Robotics
  - Manufacturing
  - Advanced Manufacturing

- Intro to Computer Graphics
  - Graphics
  - Advanced Graphics

- Intro to Video & Animation
  - 3D Design & Printing
  - Advanced 3D Design & Printing
  - Yearbook Design
  - Retail Production
  - Titan TV

- Morning Broadcast
  - Photography

Intro Courses (No Prerequisites)
Courses with a Prerequisite
Year Long Courses (All others Semester)

*italics = Semester Course*
PHYSICAL EDUCATION AND HEALTH

All students will participate in 12 weeks of freshman physical education and 12 weeks of health education. The freshman physical education and health combine to equal ½ credit. In addition, all students must enroll in one semester of physical education each sophomore, junior, and senior school year.

All students must follow the published course attendance requirements as published in the Planned Course Overviews published for each course. Participation regulations require that a student attend at least 60% of all course meetings for a semester in order to receive credit for the course. This requirement applies to all absences (excused or unexcused).

**HEALTH**

Grade: 9

12 Weeks

.25 Credit

Health is a **mandatory**, planned 12-week course for freshmen to assist each student in gaining an intelligent understanding of his body and mind in order to maintain good health and to couple this knowledge with a desire to achieve the highest degree of physical, mental, social and emotional wellness. This course includes anatomy and physiology to understand the structure and functions of the body. Mental health topics including personality development, stress management, understanding emotions and mental disorders are included. Practical information on all aspects of infectious diseases is investigated. Coverage is included in areas of drug and alcohol abuse and tobacco usage. Health courses also include information pertaining to H.I.V. and AIDS. Knowledge and skills for suicide prevention is also presented.

Health 9 will be taught in a 12-week cycle as part of the Freshmen Seminar course, which is mandatory for all ninth-grade students.

**PHYSICAL EDUCATION**

Grades 10, 11, 12

.25 credit grade 9 / .5 credit grades 10, 11, 12

The objective of physical education is to educate the student physically, socially, emotionally, and mentally through physical activity. The program provides fundamental knowledge and skill that can be used to improve and maintain a healthy level of physical fitness. The program provides a person with physical strength, endurance, agility, balance, coordination and knowledge of sports and games. It also provides an understanding of the importance of exercise, carry-over activities that will be used throughout a person’s lifetime, and high standards of sportsmanship and conduct. All ninth-grade students MUST take ten days of swimming in their freshmen year.

Ninth grade physical education will be taught in a 12-week cycle as part of the Freshmen Seminar course, which is mandatory for all ninth-grade students.

Freshman Health (.25 credit) + Physical Education (.25 credit) = .5 Credit

10th, 11th, 12th grade P.E. .5 credit each

*Two total credits to graduate*
HS0916  FITNESS ENHANCEMENT

Grade 11,12

This semester course is an 11/12 grade student fulfillment for the ½ physical education credit. Fitness Enhancement students will report to the weight room for all course work. Students will participate in a modern approach to physical fitness including: flexibility, strength training, aerobic activity for cardiovascular health, and core development. Students will create their own fitness plan and record results to encourage reaching their personal goals.

HS0917  LIFESTYLES IN HEALTH

Grade 11,12

This health and physical education course will promote knowledge and physical activity to enhance a healthy lifestyle. Medical Technology will be incorporated into course content including but not limited to Cardio benefits, flexibility, strength, nutrition, biomechanics, body structure and functions, and acute responses and chronic adaptations to a wide range of exercise conditions. Students will research topics in the classroom and physically execute their knowledge on the current topic. THIS IS AN ELECTIVE COURSE AND DOES NOT COUNT IN PLACE OF A PHYS ED REQUIREMENT.

HS0918  PARTNERS IN PHYSICAL EDUCATION

.5 Credit – .5 Elective

Grades 9,10,11,12

The program includes education and assessment in several areas of special education. Partners are given information in verbal as well as written form. Learning and understanding can be assessed through demonstration and participation. Members of the staff who are related to or work with individuals with disabilities can be included in the training to provide relevant information to the Partners. Partners will have the opportunity for hands-on experiences in the teaching process, as well as developing the knowledge and skills that promote wellness, sports training, and community physical recreation activities for all abilities. In addition, teachers have the opportunity to receive feedback about the course and gain data from the Partners regarding attitudes about individuals with disabilities, both prior to and after the course.

Pre-requisite – Recommendation from Current Physical Education Teacher.

School Credit – This course would fill the .5 physical education credit required for graduation. This course is also eligible as a course elective.

Maximum registrations – This course would be restricted to 10 students per semester. Students can register for a full year option completing .5 physical education credit and .5 elective. Maximum registration of students can be increased with recommendation from Physical Education Teacher.
This is the recommended first AS course for all new cadets. It is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations and flight, then progresses through time to future developments in aerospace, with an introduction into cyber technologies. The intent of this textbook is to bring alive the significant discoveries in flight a reality. This book tells the story of why we are so proud of our Air Force heritage — laying the foundation for future Air Force JROTC aerospace science courses. Throughout the course 21st century learning is adopted with readings, video clips, hands-on learner centered activities, and chapter project-based learning opportunities.

The Course Outcomes are:
1. Describe historical facts and impacts of the early attempts of heavier-than-air flight.
2. Analyze the impact World War I aviation had on commercial aviation.
3. Examine the role aerial bombing had on the outcome of World War II.
4. Investigate the impact commercial jet aviation has had on US travel.
5. Analyze the lessons learned from global use of US airpower.
6. Evaluate developing technology that will affect the US Air Force of the future.

**Aerospace Science: Cultural Studies: An Introduction to Global Awareness**

This is a customized course about the world’s cultures. The course is specifically created for the US Army, Marine Corps, Navy, and Air Force Junior ROTC programs. It introduces students to the world’s cultures through the study of world affairs, regional studies, and cultural awareness. The course delves into history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns, and human rights. It looks at major events and significant figures that have shaped each region. Throughout the course, there are readings, video segments, hands-on activities, other optional activities, technology enrichment, and assessments to guide in the reinforcement of the materials. 21st century skills as defined by the Partnership for 21st Century Skills are integrated into the course. These include learning and innovation (thinking) skills—critical thinking and problem solving, creativity and innovation, and communication and collaboration; information, media and technology skills—information literacy, media literacy, and ICT (information, communications and technology) literacy; and life and career skills—flexibility and adaptability, initiative and self-direction, social and cross-cultural skills, productivity and accountability, and leadership and responsibility.
The course objectives are:

1. Know how historical, geographic, religious, and ethnic factors have shaped the six major regions of the world.
2. Know how economic, political, and social factors impact cultures.
3. Know how environmental resources influence global economic development.
4. Know how population density, famine, war, and immigration influence the world.
5. Know how the economic systems of communism and capitalism have shaped the six major regions of the world.
6. Comprehend how cultural perspectives of time, space, context, authority, interpersonal relationships, and orientation to community affect interactions among people.

AFJROTC 300: Exploring Space: The High Frontier
One year – 5 periods
1 credit

This is a science course that includes the latest information available in space science and space exploration. The course begins with the study of the space environment form the earliest days of interest in astronomy and early ideas of the heavens, through the Renaissance, and on into modern astronomy. It provides an in-depth study of the Earth, Sun, stars, Moon, and solar system, including the terrestrial and the outer planets. It discusses issues critical to travel in the upper atmosphere such as orbits and trajectories unmanned satellites, and space probes. It investigates the importance of entering space and discusses manned and unmanned space flights, focusing on concepts surrounding spaceflight, space vehicles, launch systems, and space missions. The section on manned spaceflight focuses on the Space Shuttle, space stations and beyond, covering milestones in the endeavor to land on the Moon and to safely orbit humans and crafts for temporary and prolonged periods. The course covers the human aspect of spaceflight, focusing on the human experience in space. It also examines the latest advances in space technology, including robotics in space, the Mars Rover, and commercial uses of space.

The course objectives are:

1. Know the history of astronomy and the specific characteristics of the Earth, Moon, solar system, and the planets.
2. Comprehend the big picture of space exploration, including the history of spaceflight, organizations doing work in space, and the overall space environment.
3. Know the importance of entering space, characteristics of manned and unmanned spaceflight, and how humans are affected during spaceflight.
4. Know the key concepts for getting from the surface of the Earth into Earth orbit and to other planets and back again.
5. Know how spacecraft, rockets, and launch vehicles are designed and built.
6. Know the latest advances in space technology.
AFJROTC 410: Survival:
One year – 5 periods

The Survival text is a synthesis of the basic survival information found in Air Force Regulation 64-4 Survival Training. The survival instruction will provide training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival. Survival also presents “good to know” information that would be useful in any situation. The information is just as useful to an individual lost hunting or stranded in a snowstorm.

The course objectives are:

1. Know the elements of surviving.
2. Know how medicine procedures, clothing, and shelter can provide personal protection for a survivor in a survival situation.
3. Know the necessities for maintaining life in a survival situation.
4. Know how to travel and prepare for recovery in a survival situation.

LEADERSHIP EDUCATION 100: TRADITIONS, WELLNESS, AND FOUNDATIONS OF CITIZENSHIP

LE 100 is the component of JROTC leadership education. It is intended for students who are entering the AFJROTC program and beginning their high school studies. It will introduce cadets to history, organization, mission, traditions, goals, and objectives of JROTC for all services. It introduces key military customs and courtesies, how to project a positive attitude, and examine the principles of ethical and moral behavior. It provides strategies for effective note taking and study skills for academic success. Lessons will cover how to be emotionally, mentally, and physically healthy. Avoiding and preventing violence in today’s society will also be covered. How to recognize types of bullying and how to advocate for prevention of this type of behavior. It will cover healthy living, physical fitness, and how to make safe, drug-free, and responsible decisions. This textbook will also examine the negative effects of air and water pollution, and how to help keep the environment safe. Cadets will be introduced to civics and our national government, including a historical understanding of the American flag and other important national symbols. The final chapter will also cover how the US Constitution protects our rights and freedoms as American citizens.

Course Outcomes:
1. Analyze the heritage, organization, and tradition of service programs.
2. Analyze the benefits of positive personal behavior.
3. Evaluate healthy living through physical activity and good nutrition.
4. Apply safe, drug-free decisions.
5. Analyze the importance of citizenship in the United States
Leadership Education 200: Communication, Awareness, and Leadership

Leadership Education 200 stresses communications skills and cadet corps activities. Much information is provided on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development. Written reports and speeches compliment the academic materials. Cadet corps activities include holding positions of greater responsibility in the planning and execution of corps projects.

Leadership Education 300: Life Skills and Career Opportunities

Life Skills and Career Opportunities, Second Edition provides an essential component of leadership education for today’s high school students. This course it is designed to prepare students for life after high school in the high-tech, globally oriented, and diverse workplace of the 21st century. Students will learn how to become a more confident financial planner and to save, invest, and spend money wisely, as well as how to avoid the credit trap. They will learn about real-life issues such as understanding contracts, leases, warranties, legal notices, personal bills, practical and money-saving strategies for grocery shopping, apartment selection, and life with roommates. The Holland Interest Inventory and other self-assessments will help them to reveal their attitudes, aptitudes, and personal skills. This self-understanding will allow them to explore career paths and understand requirements that they will need to be successful at work and in life.

To help students increase their potential for success through education, they will learn how to select a school that is right for them; how to apply for admission to a vocational or technical school, community college, or college/university; and how to succeed in these learning environments. Information is provided on how to conduct the job search for students who wish to enter the workforce right after high school or after additional education and training. They will learn how to prepare a winning résumé, and how to develop effective interviewing skills. Students will become more skilled at using the Internet for career research and learn how to network safely using social media. The text also provides information on working for the federal government to include careers in the military, aerospace industry, and public service. Finally, students will consider the most important elements of life skills for all Americans: civic responsibilities, such as volunteering, registering to vote, jury duty, and draft registration.

Course Outcomes:
1. Analyze the elements of successful financial management skills.
2. Create a plan to safeguard personal resources.
3. Analyze the different ways of pursuing a career path.
4. Analyze the requirements for applying to a college or university.
5. Analyze positive and negative impact of college life in meeting career goals.
6. Evaluate the essential process for successfully pursuing desired career or job.
7. Evaluate the benefits of working for the Federal Government.
8. Create a plan for successful career development
Leadership Education 400: Principles of Management

This is the 4th textbook in the Leadership Education series. This course provides exposure to the fundamentals of management. The text contains many leadership topics that will benefit students as well as provide them with some of the necessary skills needed to put into practice what they have learned during their time in AFJROTC. We are confident this course, coupled with what cadets have already learned during their time in AFJROTC, will equip them with the qualities needed to serve in leadership positions within the corps. Throughout the text are many ethical dilemmas, case studies, and role play activities built into the lessons. These activities are based on real life experiences and will allow students the opportunity to practice what they learn by getting involved in discussions and expressing their opinions.

Course Outcomes:
1. Analyze management and its application to JROTC.
2. Analyze the elements of project management.
3. Evaluate the importance of formal planning within an organization.
4. Analyze decision making within an organization.
5. Evaluate time management and change management within an organization.
6. Analyze concerns managers must consider in managing individuals and groups.
7. Analyze the factors that make work teams productive.
8. Evaluate the interpersonal skills of delegating, negotiating, and mentoring

Wellness Curriculum

Course Description

Wellness is an official part of the Air Force Junior ROTC program. It is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. Cadets will participate in the Presidential and National Physical Fitness Award Programs consisting of exercises including curl-ups, shuttle-run, one-mile run/walk, pull ups and V-Sit reach. Wellness is instrumental in developing citizens of character dedicated to serving our nation and communities. The program is provided as a tool to help develop individualized training programs for cadets. Cadets will be given the opportunity to put into practice the wellness concepts that are taught in Leadership Education I. Instructors also include other activities cadets enjoy such as team sports in order to keep the Wellness Program fun and motivating. The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity. They require no equipment and use only body weight.
12TH GRADE MISC. OPPORTUNITIES

HS0996  CAREER INTERNSHIP/ EMERGING LEADERS PROGRAM  Grade 12

Application & Qualification Required

Emerging Leaders Program Description:
• Free, income-based workforce development and career readiness program for high school seniors.
• ELP participants will attend session during the school day where they are instructed in a curriculum specifically created for seniors to prepare them for success after high school.
• Students receive help with post-graduation goals, career planning, and college/post-secondary training preparation.
• Outside of the classroom, participants work one-on-one with a Youth Development Associate (YDA) to receive highly individualized attention and support in their pursuit of their goals. They create goal plans and refer to the plans throughout the year to stay on track.
• Features career exploration, job shadowing, leadership development and team building, job/school/training searches, field trips to various job sites and schools, and more.
• A variety of professionals present to the class throughout the year on their career fields and personal development.
• Students will earn a modest stipend periodically based on participation and goal completion throughout the school year and post-graduation.

HS0998  EARLY WORK RELEASE  Grade 12
Early work release provides juniors & seniors who have completed the minimum graduation requirements the opportunity to leave high school when their daily classes are complete. Students must remain in school for a minimum of 4 periods each day and are required to have a lunch. Students must sign out in the office and leave the building at their scheduled time each day. Transportation is the sole responsibility of the student and family. A signed parental permission form is required.

HS0999  CAREER INTERNSHIP  Grades 11, 12
The Career Internship provides juniors and seniors the opportunity to leave high school when their required daily classes are complete to work their part-time job(s) and earn elective credit(s) for that job. Students must re-enroll each 9 weeks with specific information from their employer(s), and an evaluation must be filled out by the student’s immediate supervisor(s) or manager(s) each 9 weeks. Site visits to the student’s work site may be conducted as needed. Students must remain in school for a minimum of 4 periods each day and are required to have a lunch. Students must sign out in the office and leave the building at their scheduled time each day. Transportation is the sole responsibility of the student and family. A signed parental permission form is required each 9 weeks.
HS9005  DUAL ENROLLMENT  Grade 12

Dual Enrollment enables Junior and Senior students to get a head start on their college careers by earning college credits while still in high school. Many students enjoy experiencing a college setting as they finish their junior and senior years. Credits earned under the provisions of this program can meet high school graduation requirements as well as college credits which may be transferred to other post-secondary institutions. West Mifflin Area High School currently has Dual Enrollment agreements with CCAC, Penn State, Point Park, and Chatham University. All costs and transportation are the sole responsibility of the student and family. Dual Enrollment classes can be taken in the evening or during the school day if the student's schedule allows such flexibility.

HS0995  STUDENT SECRETARY  Grade 12
One year - 5 Periods  1 Credit

This elective course provides students a clear impression of employee/employer relationships through assistance to the faculty and administration of West Mifflin Area High School. This course is to provide members with valuable experience, preparing them for a career in the academic and professional world, and to put to a good use these acquired talents and experiences. Students are required to attend meetings, show excellent attendance, adhere to the rules of the organization, and complete a term paper to obtain credit for the course. Students need to register for the course during scheduling, and also apply for the club at the end of the school year for the sake of assigning a teacher to intern for during their senior year.
INDEPENDENT STUDIES

Independent studies provide a way for well-motivated students to pursue a topic of interest that does not necessarily fit into a traditional academic schedule. As a result, a student can propose to have an independent study to meet their learning needs.

➢ Independent study courses are available to 10th, 11th and 12th grade students. A maximum of 2 credits will be permitted per year.
➢ A student **may not** take an independent study for a previously failed course.
➢ Independent study classes are not weighted. College in High School and AP courses will not be offered on an independent study basis.
➢ Students are required to meet with the instructor for support and on-going evaluation for the duration of the independent study project.
➢ Students will maintain a daily log and submit it to the teacher for approval.
➢ Teachers will review the completed independent study project and assign a final grade for the course.

Students proposing an independent study course must submit a typed proposal which they have developed with the help of the supervising teacher. The proposal must contain the following:

- Specific objectives to be accomplished (including the final project)
- The method(s) by which the objectives will be accompanied
- The materials required to accomplish the objectives
- A plan for evaluating the success of the objectives
Links to the Online Application are available on our website www.steelcentertech.com in 5 places.

1. Home page
2. Students/ Parents TAB -> Student Family Resources
3. Students/ Parents TAB - > Prospective Students
4. Students/ Parents TAB -> Student Online Enrollment Application
5. District Resources TAB

A District Personnel CTE Portal Online Application Login button has also been placed on our website District Resources TAB.
STEP #1  Student’s submit an application to both the Sending School District & Steel Center via the Online Application/Apply Now button on our website.

Students should be using **Google Chrome browser**

*If an error message occurs* make sure all required fields are filled in (**ALL FIELDS with a red asterisk**)

Check Date Formats **MM/DD/YYYY**

Check Email & Phone Types are selected  (i.e. Home Cell, Work)

Once a student successfully submit the application a trigger email will be sent to the student, parent & designated sending school personnel.

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**STEP #2** District Personnel will log into the "**District Personnel CTE Portal/Online Application**" via the button on the schools website under the District Resources TAB.
Steel Center offers 18 career majors. Each major is based on state and/or locally approved curricula, inclusive of written (theoretical) activities, performance tasks, demonstration of work ethic, and professionalism. For each major, students may earn three (3) or more Carnegie Units (credits) per year, depending on local sending school district policies for credit acquisition. Students may also earn industry certifications and college credit in their respective programs. Steel Center’s career majors are as follows, listed alphabetically by local title and accompanied by Pennsylvania Classification of Instructional Program (CIP) codes:

**Advertising & Design (Program of Study)**

*Grades 10-12*

*CIP Code: 50.0402, 3 or more credits/year.*

**Industry Certifications Available:** Adobe Certified Associate CS6 Photoshop, InDesign, Illustrator, & Pennsylvania Skills Certification

An instructional program in the applied visual arts that prepares individuals to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via illustrations and other forms of printed media. This program includes instruction in concept design, layout, paste-up and techniques such as engraving, etching, silkscreen, lithography, offset, drawing and cartooning, painting, collage and computer graphics.
Automotive Technology (Program of Study)  
**CIP Code:** 47.0604, 3 or more credits/year.  
**Grades:** 10-12

**Industry Certifications Available:** Pennsylvania State Automotive Safety Inspection, Pennsylvania State Emissions Inspection and EPA, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems and drive train and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components and air conditioning and includes the use of technical repair information and the state inspection procedures.

Baking/Pastry Chef (Program of Study)  
**CIP Code:** 12.0501, 3 or more credits/year.  
**Grades:** 10-12

**Industry Certifications Available:** ServSafe Manager Food Safety, ServSafe Food Handler, S/P2 Culinary Safety and Pollution Prevention, & Pennsylvania Skills Certification

Specialized classroom and practical work experiences associated with the preparation of breads, crackers, cakes, pies, pastries and other bakery products for retail distribution, for consumption in a commercial food service establishment or for special functions. Instruction includes making, freezing and handling of bake products; decorating; counter display; and packaging of merchandise. This is a comprehensive program to prepare individuals for employment in a variety of occupations in the baking industry.

Building Trades Maintenance (Program of Study)  
**CIP Code:** 46.0401, 3 or more credits/year.  
**Grades:** 10-12

**Industry Certifications Available:** Pennsylvania Builder’s Association Certification (PBA), OSHA-10 Hour Training CareerSafe, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills to keep a building functioning, and to serve a variety of structures including commercial and industrial buildings and mobile homes. Instruction includes the basics of carpentry, millwork, plumbing, painting, glazing, electricity, plastering, welding, minor sheet metal, concreting, bricklaying, tile setting, hardware usage, heating, ventilation, waterproofing, roofing and record keeping.

Carpentry (Program of Study)  
**CIP Code:** 46.0201, 3 or more credits/year.  
**Grades:** 10-12

**Industry Certifications Available:** Pennsylvania Builder’s Association Certification (PBA), OSHA 10 Hour Training CareerSafe, & Pennsylvania Skills Certification
An instructional program that prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques.

**Collision Repair and Refinishing (Program of Study)**

*Grades 10-12*

*CIP Code: 47.0603, 3 or more credits/year.*

**Industry Certifications Available:** S/P2 Collision Safety and Pollution Prevention, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic window and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or unibody structures using hydraulic jacks and pulling devices; and file, grind and sand repaired surfaces using power tools and hand tools. Students refinish repaired surfaces by painting with primer and finish coat.

**Computer Technology (Program of Study)**

*Grades 10-12*

*CIP Code: 15.1202, 3 or more credits/year.*

**Industry Certifications Available:** A+ Certification, Network+ Certification, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply basic engineering principles and technical skills in support of professionals who use computer systems. This program includes instruction in basic computer design and architecture, programming, problems of specific computer application, component and system maintenance and inspection procedures, hardware and software problem diagnosis and repair and report preparation.

**Cosmetology (Tech Prep Articulation Agreement with Douglas Education Center)**

*Grades 10-12*

*CIP Code: 12.0401, 3 or more credits/year.*

**Industry Certifications Available:** Cosmetology License, Manicurist, Esthetician, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, dyeing, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized. Instruction is designed to qualify pupils for the licensing examination.
Culinary Arts (Program of Study)  
*Grades 10-12*  
*CIP Code: 12.0508, 3 or more credits/year.*

**Industry Certifications Available:** ServSafe Manager Food Safety, ServSafe Food Handler, S/P2 Culinary Safety and Pollution Prevention, & Pennsylvania Skills Certification

An instructional program that prepares students for employment related to institutional, commercial or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Instruction skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level.

Diesel Technology (Program of Study)  
*Grades 10-12*  
*CIP Code: 47.0613, 3 or more credits/year.*

**Industry Certifications Available:** Pennsylvania State Automotive Safety Inspection, Pennsylvania State Emissions Inspection and EPA, S/P2 Heavy Duty Safety and Pollution Prevention, & Pennsylvania Skills Certification

A program that prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. Includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drive trains, HVAC systems, and auxiliary equipment installation and repair.

Electrical Construction (Program of Study)  
*Grades 10-12*  
*CIP Code: 46.0399, 3 or more credit/year.*

**Industry Certifications Available:** Pennsylvania Builder’s Association Certification (PBA) & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically-energized residential, commercial and industrial systems, and DC and AC motors, controls and electrical distribution panels. Instruction emphasizes practical application of mathematics, science, circuit diagrams and use of electrical codes and includes blueprint reading, sketching and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program.
Exercise Science and Rehabilitation Services (Tech Prep) – NEW 2020-2021 SCHOOL YEAR

Grades 10-12

CIP Code: 51.2604, 3 or more credits/year.

Industry Certifications Available: To be determined, but may include the following: American Heart Association (AHA) Heartsaver First Aid, AHA CPR, HIPAA Certification, American Medication Certification Association (AMCA) Physical Therapy Aide, & Pennsylvania Skills Certification

A program that prepares individuals to assist in rehabilitation services under the supervision of physical therapists, occupational therapists, speech-language pathologists, and other therapeutic professionals, and to perform routine functions in support of rehabilitation. Includes instruction in roles and responsibilities of rehabilitation providers, basic function of the human body, disabling conditions, therapeutic skills, client management, and communication skills.

Health Assistants (Program of Study)

Grades 10-12

CIP Code: 51.0899, 3 or more credits/year.

Industry Certifications Available: Patient Care Technician/PCT, Basic Life Support Health Care Providers, & Pennsylvania Skills Certification

A cluster program with a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc.

Heating, Ventilation, Air Conditioning & Refrigeration (Program of Study)

Grades 10-12

CIP Code: 47.0201, 3 or more credits/year.

Industry Certifications Available: EPA 608 Technician Certification, Pennsylvania Builder’s Association Certification (PBA), & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills to install, repair and maintain commercial and domestic heating, air conditioning and refrigeration systems. Instruction includes theory and application of basic principles involved in conditioning of air (cooling and heating); filtering and controlling humidity; operating characteristics of various units and parts; blueprint reading; use of technical reference manuals; the diagnosis of malfunctions; overhaul, repair and adjustment of units and parts such as pumps, compressors, valves, springs and connections; and repair of electric/electronic and pneumatic control systems.
Medical Professions (Program of Study) – NEW 2020-2021 SCHOOL YEAR

CIP Code: 51.9999, 3 or more credits/year.

Industry Certifications Available: To be determined, but may include the following: Basic Life Support (BLS), Pharmacy Technician (CPhT), EKG Technician (CET), Phlebotomy Technician (CPT), Nurse Technician (CNT), & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply knowledge and skills in the health occupations. Instruction is provided in the basic skills in a variety of areas associated with health occupations such as health and medical services, pharmaceutical and medical instruments and supplies. Instruction includes but is not limited to foundations of health (medical terminology); anatomy and physiology; legal, ethical and economic aspects of health care; clinical laboratory procedures; basic health occupational skills; aseptic techniques; OSHA regulations; and infection control. Clinical education is an integral part of the program. Science and math taught by certificated science and math teachers will be coordinated and deemed essential for students to successfully reach their career objectives.

Public Safety (Tech Prep)

CIP Code: 51.0904, 3 or more credits/year.


A program that prepares individuals, under the remote supervision of physicians, to recognize, assess, and manage medical emergencies in prehospital settings and to supervise ambulance personnel. Students will learn about basic, intermediate, and advanced EMT procedures; emergency surgical procedures; medical triage; rescue operations; crisis scene management and personnel supervision; equipment operation and maintenance; patient stabilization, monitoring, and care; drug administration; identification and preliminary diagnosis of diseases and injuries; communication and computer operations; basic anatomy, physiology, pathology, and toxicology; and professional standards and regulations. Students will also learn fundamentals of police operations and fire protection, as well as technical and vehicle rescue. Physical development and self-confidence are emphasized due to the nature of the specific occupation(s) associated with public safety.

Veterinary Assistant (Program of Study) – NEW 2020-2021 SCHOOL YEAR

CIP Code: 51.0808, 3 or more credits/year.

Industry Certifications Available: To be determined, but may include the following: OSHA-10 Health Careers, CPR, Pet Tech First Aid, Purina Weight Coach, & Pennsylvania Skills Certification

An instructional program that prepares individuals to support veterinarians by providing assistance during animal examinations, treatment administration and monitoring; by keeping animal and related health record information; and by performing a range of selected practice-related duties. This program is designed to provide instruction in preparing the animal for examination and treatment, sterilizing equipment and performing selected routine laboratory procedures under direct supervision of the veterinarian. Instruction also includes maintaining medical and business records, charting and scheduling activities and a wide range of practice-related duties as applied to
animal health care, the biomedical field and the pet industry. The health occupational planned courses include the study of life sciences with emphasis on animal anatomy, physiology, diseases, reproduction, genetics, nutrition, animal laboratory procedures, aseptic technique, OSHA regulations, infection control and procedures. Clinical education is an integral part of the program. Science and math taught by certificated science and math teachers will be coordinated and deemed essential for students to successfully reach their career objectives.

Welding (Program of Study) Grades 10-12

*CIP Code: 48.0508, 3 or more credits/year.

**Industry Certifications Available:** AWS Certification, SP/2 Welding Safety Pollution and Prevention, & Pennsylvania Skills Certification

An instructional program that prepares individuals to apply technical knowledge and skills in gas, arc, shielded and non-shielded metal arc, brazing, flame cutting and plastic welding. Hand, semi-automatic and automatic welding processes are also included in the instruction. Students learn safety practices and types and uses of electrodes and welding rods; properties of metals; blueprint reading; electrical principles; welding symbols and mechanical drawing; use of equipment for testing welds by ultrasonic methods and destruction and hardness testing; use of manuals and specification charts; use of portable grinders and chemical baths for surface cleaning; positioning and clamping; and welding standards established by the American Welding Society, American Society of Mechanical Engineers and American Bureau of Ships.