1

General Information
### GENERAL INFORMATION

<table>
<thead>
<tr>
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<td>Counseling Services</td>
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<td>Daily Bell Schedule</td>
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<td>Early Completion Program</td>
<td>14</td>
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<td>Graduation Requirements</td>
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<td>Honor Roll</td>
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<td>Mastery of the PA Keystone Literature, Algebra &amp; Biology Standards</td>
<td>17</td>
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<td>NCAA Academic Eligibility Requirements</td>
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<td>Open Campus PA</td>
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<td>Rank-in-Class</td>
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### CURRICULUM OFFERINGS

<table>
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<tr>
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<td>Health, Physical Education</td>
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<td>School-to-Career Experience</td>
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<td>Science</td>
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<td>Technology &amp; Engineering Education</td>
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<td>World Languages</td>
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</table>
Principal’s Message to Students (and Parents/Guardians),

As a high school student, one of the most important tasks you will perform is the mapping of your 4-year course "journey" at HHS. Thoughtful reflection about present and future goals as well as careful planning are needed if you hope to make your education work for you in the years to come! This course description guide has been organized to ease the course selection process. Please share this guide with your parents/guardian and spend some time reviewing it together, as the course planning process should be a cooperative venture between you and your parens/guardian.

The first section of the course selection guide covers general information - it is critical that both you and your parents/guardian review this section very carefully, for it includes important information about course selection procedures, PA and Hempfield graduation requirements, NCAA academic requirements, student services, rank-in-class, online learning options, and Lancaster County Career and Technology requirements.

When choosing your courses, please consider your abilities and interests as well as the Hempfield graduation requirements you must meet. Regardless of whether you intend to pursue further education at a college or technical school, enter the military, or seek immediate employment in the job market, HHS offers course work that should help you achieve your career goals. Before making your selections, carefully read the course descriptions in this guide, check for course prerequisites that must be met before you can take certain courses, and think about how each course will allow you to reach your educational goals.

It is important for students and families to understand that course requests have a major impact on teacher scheduling, student sectioning, and budgeting for books, supplies, and teaching staff needed to deliver the curricular program. Every effort will be made to honor student course requests. However, in the event of insufficient enrollment, staffing, or facility limitations, the administration reserves the right to cancel or limit the enrollment for courses publicized in the course selection guide.

As you move through the scheduling process, your teachers and school counselor will be excellent resources for you - please do not hesitate to ask them questions as the process unfolds. Good luck with your course selections!

James A. Dague

Principal
Contact Information

Hempfield High School
200 Stanley Avenue Landisville, PA 17538

Grade 9 – Buchanan Office
717-898-5530

Grade 10 – Buchanan Office
717-898-5634

Grade 11 – Franklin Office
717-898-5520

Grade 12 – Franklin Office
717-898-5507

High School Guidance Office
717-898-5545

Main Office
717-898-5500

www.hempfieldsd.org

MISSION STATEMENT

The mission is to provide safe environments, experiences, and opportunities that inspire all students to become lifelong learners and contributing citizens in all aspects of their lives.

HIGH SCHOOL ADMINISTRATION

High School Principal  Mr. James A. Dague
Grade 12 Principal  Dr. Mark E. Reinhardt
Grade 11 Principal  Dr. William S. Brossman
Grade 10 Principal  Dr. Jodi C. Harrington
Grade 9 Principal  Dr. Beth A. Becker
Landisville Education Center Principal  Mr. Brendan P. Cregan
SCHOOL COUNSELORS

- Mrs. Logan Albaugh
- Ms. Lindsey Bauer
- Mr. Robert L. Bentley
- Dr. Kandace DaCosta
- Mr. Keith Eckenrode (long term substitute for Kelly Morenko)
- Ms. Sally Metz (long term substitute for Lindsey Bauer)
- Mrs. Kelly Morenko
- Mrs. Kimberly Romero
- Mrs. Stefanie Scarborough
- Mr. Justin Snook

ACKNOWLEDGMENTS

The instructional program described in this guide is the result of the cooperative efforts of many individuals. In an effort to recognize and acknowledge the significant contributions of these individuals, their names are listed below:

- Mr. Michael Bromirski – Superintendent
- Mrs. Maria Hoover - Assistant Superintendent
- Dr. Tab Musser - Assistant Superintendent
- Mr. Mark N. Ashley – Health and Physical Education Supervisor
- Dr. Beth Becker – Grade 9 Principal
- Dr. William S. Brossman – Grade 11 Principal
- Mr. James A. Dague - High School Principal
- Mrs. Renee L. Dissinger – Administrative Assistant to the High School Principal
- Mrs. Kimberly Snyder - District Communications Specialist
- Dr. Cathl M. Fuhrman – Library Supervisor
- Mrs. Donna M. Goserud – English Language Development (ELD) Chairperson
- Mr. Garry Hallman – Student Information Systems Coordinator
- Dr. Jodi C. Harrington – Grade 10 Principal
• Mr. Ralph D. Heister - Science Supervisor
• Mr. Brian S. Lehman – Art Supervisor
• Dr. Debbie Lugar – Open Campus Director
• Mr. Mike Mylin – Mathematics Supervisor
• Mr. Matthew Ceresini - Music Department Coordinator
• Dr. Mark E. Reinhardt – Associate & Grade 12 Principal
• N. Katherine Deisley – English Language Arts Supervisor
• Mr. Leon P. Shoffler – Technology & Engineering Education Supervisor
• Mrs. Lauren M. Stauffer – Family and Consumer Sciences Department Chairperson
• Mr. Zahid Virmani - Social Studies Supervisor
• Mr. Danny E. Walck – Business Computer & Information Technology Department Chairperson
• Mrs. Rosemarie Zorrilla – World Languages & English Language Development (ELD) Supervisor
Course Selection Procedures

GENERAL GUIDELINES

• Students must select courses required for graduation as described in this publication.

• Elective courses described in this publication may be selected if prerequisite course and grade level requirements are met and the student has parental approval.

• Students must maintain a schedule with EIGHT (8) class periods per 2 day cycle. In other words, students must be scheduled for 4 out of 5 blocks every day. The 5th block will be lunch/flex.

• A student may earn credit only once for a course in pursuit of high school graduation requirements. There is an exception for music ensemble courses.
COURSE SELECTION PROCEDURES

Counselors will discuss course offerings and share information about the course selection process in classes at the middle schools and during the flex periods at the high school.

Middle school and high school teachers will use the PowerSchool to recommend required courses.

Students will be selecting courses online using the PowerSchool. Middle school students will complete this process in school under the supervision of a school counselor. High school students may select their elective classes either at home or in school using the portal. Students who do not choose courses will have courses assigned to them by their counselor.

A parent signature is required on the “Course Selection Printout” to indicate approval of student course selections.

CHANGING A COURSE

Scheduled courses will not be dropped without parent, teacher, counselor recommendation, and administrative approval, in some cases.

Courses dropped SIX (6) days after the start of the semester/school year will be noted on the permanent record as "W" (Withdrawal).

Any required or elective course dropped past the midpoint of the course will be assigned an automatic “F” unless otherwise approved by the administration.

PARENTS’ NIGHT PROGRAMS

On February 6, 2020, parents and students are encouraged to attend the Course Selection Night Program.

Current students in grades 9-11 will be able to have their questions answered in the Wheatland Federal Credit Union Cafeteria at Hempfield High School during their students scheduled flex lunch period.
Transcript Request Process

Transcript requests must be made by the student through the School Counseling Office and submitted at least 10 school days prior to the college’s deadline.

If a student is applying to a college that does not accept the electronic submission of these documents, s/he must provide the Counseling Office with a business sized, stamped, addressed envelope to the college as well as a business-sized, stamped, addressed envelope to any teachers who has been requested to provide a letter of recommendation.
Student-athletes interested in eventually participating in collegiate athletic team competition, especially at a Division I and Division II college, must meet the requirements established through the NCAA Eligibility Center. Along with posting minimum score requirements in either the SAT I or the ACT college entrance exam, a student-athlete will need to carry a minimum core course grade point average (Core Course GPA) upon graduation from Hempfield High School of at least a 2.3 for Division I and Division II. This Core Course GPA is calculated by the NCAA Eligibility Center office by using the best course grades from NCAA established core course requirements from the list of Approved Core Courses. Eleven (11) of the sixteen (16) required courses need to be completed prior to the beginning of the 7th semester.

Sixteen (16) specified core course credits must be completed for those student-athletes interested in Division I or Division II. As the following year’s program of study is selected, potential collegiate student-athletes should be aware of the NCAA academic eligibility requirements which pertain specifically to Division I and Division II athletic participation. Division III colleges are not held to the academic guidelines of the NCAA Eligibility Center. Online coursework meets NCAA non-traditional core-course legislation.

For a general reference, we have included the list of NCAA approved and pending classes. For the latest updated list of Hempfield High School approved NCAA core courses and to register for an account, please visit the NCAA Eligibility Center website at www.eligibilitycenter.org.

**ENGLISH**
- English 9-12 CP
- English 9-12 Honors
- English AP Language & Composition
- English AP Literature & Composition
- Creative Writing

**MATHEMATICS**
- Algebra 1A CP (.50 credit) *
- Algebra 1A Applied CP (.50 credit) *
- Algebra 1B CP (.50 credit) *
- Algebra 1B Applied CP (.50 credit) *
- Algebra 1B Advanced CP (.50 credit) *
- Algebra II CP
- Algebra II Advanced CP
- Algebra II Applied CP
- Algebra II Honors
- Geometry CP
- Geometry Advanced CP
- Geometry Applied CP
- Geometry Honors
- Algebra 3/Trig CP
- Pre-calculus CP
- Statistics Logic and Algorithms CP
- Math Analysis Honors
- Calculus AB AP
- Calculus BC AP
- Calculus CP
- Statistics AP
- Computer Science AP
- Computer Science Principles AP

**NATURAL / PHYSICAL SCIENCE**
- General Science CP
- General Science Honors
- Biology CP
- Biology Honors
- Biology I AP
- Biology II AP
- Biology II Honors
- Chemistry CP
- Chemistry Honors
- Chemistry I AP
- Chemistry II AP
- Chemistry II Honors
- Environmental Science AP
- Principles of Science & Technology
- General Physics CP
- Physics CP
- Physics Honors
- Physics AP: Mechanics
- Physics AP: Electricity & Magnetism
- Anatomy & Physiology Honors
SOCIAL STUDIES / SOCIAL SCIENCE
American History CP
American History Honors
American History AP
Macro Economics AP
Micro Economics AP
Global America CP
World History AP: Modern
Psychology CP
AP Psychology
History of the U.S. I
History of the U.S. II
World History CP
World History Honors
Government and Economics CP
Government and Economics Honors
U.S. Government and Politics AP
Comparative Government and Politics AP
Principles of American Law CP
Pennsylvania & Lancaster County History CP
Rights and Events in A Modern World
20th Century European History CP
European History AP
PA & Lancaster County CP

WORLD LANGUAGES
Chinese I CP
Chinese II Honors
Chinese III Honors
Chinese IV Honors
Chinese Culture and Civilization CP
French I CP
French II CP
French III Honors
French IV Honors
French Language and Culture AP
German I CP
German II CP
German III Honors
German IV Honors
German Language & Culture AP
Latin I CP
Latin II CP
Latin III Honors
Latin IV Honors
Latin 301: Latin Prose Honors
Latin 302: Latin Poetry Honors
Spanish I CP
Spanish II CP
Spanish III Honors
Spanish IV Honors
Spanish for Heritage Speakers CP
Spanish Language & Culture AP
Spanish 503: ¡Viva España! (Spanish Life) - Honors
Spanish 504: Aventuras en la América Latina (Adventures in Latin America) - Honors

* Hempfield High School awards 1.0 credit for successfully passing each of these courses towards graduation BUT the NCAA only awards .50 credit for each course successfully passed toward eligibility.
School Counseling Services

Parents may contact the School Counseling Department for information regarding the following. Additional information about these items may be found on the Hempfield School District website.

- Career & Technology Center (CTC) Programming
- Career/Occupation Information
- College Admissions
- Course Selection
- Financial Aid
- Homebound Instruction
- Keystone Testing
- PSAT, SAT I, SAT II, ACT and ASVAB Testing
- Student Support Services
- Summer School

Students are encouraged to meet regularly with their counselor.
Special Education & Gifted Support Services

SPECIAL EDUCATION SERVICES
Special Education support services are available to meet the needs of identified exceptional individuals. Student’s services are outlined in an Individual Educational Program (IEP). This support is only available by referral. Students believed to be eligible are directed to contact the Special Education Department.

GIFTED SUPPORT SERVICES
Gifted services are available to meet the individual needs of students identified as gifted per PA Chapter 16 Guidelines. Eligible students’ gifted services are outlined in a Gifted Individualized Educational Plan (GIEP). More information is available on the Hempfield School District website or by contacting Gifted Services.
Rank-in-Class

Rank-in-Class is the position of any one student in a graduating class in relationship to all other students in that class based upon a weighted grade point average, cumulative to include all semesters. The sole purpose of assigning values to courses is to generate rank-in-class which is included on transcripts sent with college applications. Rank-in-Class is reported both individually and in a Decile format. A Decile is 10% of the graduating class and there are 10 deciles per class. There are approximately 60 students in each Decile. The Valedictorian, top ten students, and students in the top Decile will be recognized at commencement. Values are assigned by degree of difficulty in the course. A Value I course is less difficult than a Value II course, etc. Courses not assigned a weighted value are excluded from Rank-in-Class.

Colleges and universities are also interested in the type and quality of the courses the student elects each year, along with the student’s participation in extra-curricular activities.

Juniors and seniors can readily access their unweighted GPA, weighted GPA, rank and decile through the School Counseling Office.

Students in grades 9-12 can access their unofficial transcripts through our Sapphire System. All Official Transcripts must be sent directly from the Counseling Office.

**WEIGHTED GRADE POINT FACTORS**

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Course Weighted Value 1</th>
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<th>Course Weighted Value II</th>
<th>Honors Course Weighted Value III</th>
<th>AP Course Weighted Value IV</th>
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<tr>
<td>A+</td>
<td>4.67</td>
<td>4.90</td>
<td>5.14</td>
<td>5.60</td>
<td>6.07</td>
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<td>3.66</td>
<td>4.00</td>
<td>4.33</td>
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<tr>
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<td>2.94</td>
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<td>C</td>
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<td>C-</td>
<td>2.00</td>
<td>2.10</td>
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<td>1.05</td>
<td>1.10</td>
<td>1.20</td>
<td>1.30</td>
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<tr>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
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</table>
WEIGHTED EXEMPTION POLICY (WEP)

Hempfield High School has implemented a Weighted Exemption Policy (WEP) in an effort to encourage students to take classes of interest without having these classes negatively impact their Weighted Grade Point Average (WGPA), which is used to calculate class rank. Students are only permitted to apply for THREE (3) WEP classes – one their junior year and one each semester of their senior year – during their tenure at Hempfield High School. Core required courses are not eligible for exemption. Students who apply for a WEP will still have all of their classes count toward their Un-Weighted Grade Point Average, which is used to calculate honor roll status and is listed on a student’s academic transcript.

Any student interested in utilizing the WEP should pick up an application in the Counseling Office or schedule an appointment with his/her counselor. Students must turn in completed WEP applications to the counseling office within the first FIVE (5) days of the start of the course they wish to exempt from WGPA calculation.
Chapter 1 | Section 8

Grade Point Equivalency Of Letter Grades

Letter grades are converted to numerical grade point equivalencies for purposes of generating and reporting grades as may be needed by students applying to post-secondary schools and for administrative purposes. The final grade will be reported using the grade point equivalencies shown in the following scale.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Numerical Average</th>
<th>Grade Point Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outstanding Achievement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A+</td>
<td>98-100</td>
<td>4.00</td>
</tr>
<tr>
<td>A</td>
<td>93-97</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>90-92</td>
<td>4.00</td>
</tr>
<tr>
<td>High Achievement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
<td>3.67</td>
</tr>
<tr>
<td>B</td>
<td>83-86</td>
<td>3.33</td>
</tr>
<tr>
<td>B-</td>
<td>80-82</td>
<td>3.00</td>
</tr>
<tr>
<td>Satisfactory Achievement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>77-79</td>
<td>2.67</td>
</tr>
<tr>
<td>C</td>
<td>73-76</td>
<td>2.33</td>
</tr>
<tr>
<td>C-</td>
<td>70-72</td>
<td>2.00</td>
</tr>
<tr>
<td>Minimal Achievement</td>
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<td></td>
</tr>
<tr>
<td>D+</td>
<td>67-69</td>
<td>1.67</td>
</tr>
<tr>
<td>D</td>
<td>63-66</td>
<td>1.33</td>
</tr>
<tr>
<td>D-</td>
<td>60-62</td>
<td>1.00</td>
</tr>
<tr>
<td>F</td>
<td>59 &amp; Below</td>
<td>0.00</td>
</tr>
</tbody>
</table>

- **F - Failure** to achieve minimal course requirements. No credit earned.

- **I - Incomplete** - course requirements not met because of student absence. (The teacher will establish a reasonable number of days in which the student is expected to complete course requirements, and is required to issue a grade change, based upon the work completed.) An “I” is never assigned as a final course grade.

- **P - Passing** - Numerical grade point averages are not assigned to the letter grade of “P.”

**HONOR ROLL**

The high school program of reporting pupil progress recognizes high scholastic achievement through an honor roll system. Grades for all courses are considered for honor roll status. Students may have no “D’s”, “F’s”, or “I’s” for the marking period.

- **Honors** - students who achieve a 3.25 to 3.50 quarterly grade point average.

- **Distinguished Honors** - students who achieve a 3.51 to 3.75 quarterly grade point average.

- **Superior Honors** - students who achieve a 3.76-4.00 minimum quarterly grade point average. This is the highest recognition given for academic accomplishment.
Chapter 1 | Section 10

Graduation Requirements
To graduate from Hempfield High School, a student must successfully complete the below graduation requirements approved by the Hempfield Board of School Directors.

To be eligible for graduation, a student must:

- pass the **required courses of instruction (listed below)**.
- demonstrate mastery for Algebra I, Biology, and Literature by scoring proficient or better on the [Keystone Exams](https://www.pde.state.pa.us) or alternative assessment approved by the Pennsylvania Department of Education.
- **complete a culminating career portfolio.**

**STUDENTS MUST EARN 28 CREDITS IN ORDER TO GRADUATE.**

<table>
<thead>
<tr>
<th>Course Area</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Four (4.0)</td>
<td>English 9, English 10, English 11, and English 12 <strong>or</strong> an English AP <strong>or</strong> dual enrollment English</td>
</tr>
</tbody>
</table>
| Social Studies               | Four (4.0)   | **Grade 9:** American History **or** American History AP  
                            | **Grade 10:** World History **or** World History AP: Modern  
                            | **Grade 11:** US Government and Economics **or**  
                            | Government and Politics AP **Grade 12:** Global America  
                            | **or** Micro Economics AP **or** Comparative Government AP  
                            | **or** HACC 103 and 104 **or** dual enrollment Microeconomics |
| Mathematics                  | Four (4.0)   | **Any four (4) from this list**: Pre-Algebra, Algebra 1A,  
                            |               | Algebra 1B, Algebra 2, Geometry, Statistics/Logic/Algorithms, Algebra 3/Trig, Pre-Calculus, Math Analysis,  
                            |               | Calculus, or Computer Science AP |
| Science                      | Three (3.0)  | General Science, Biology, and one additional credit from Chemistry, Biology, Anatomy & Physiology, Physics,  
                            |               | Current Topics, Principles of Science & Technology, or Computer Science AP** |
| Health/Physical Education    | Two (2.0)    | Health is scheduled in grade 10; Physical Education is scheduled in grades 9, 10, and 11. (In grade 12, PE may be taken as an elective.) |
| Arts/Humanities              | Two (2.0)    | Art, Music, World Languages, Technology & Engineering Education, Family and Consumer Sciences, English*,  
                            |               | and Social Studies* |
| Fundamentals of Family & Consumer Sciences | One half (0.5)  Credit | Required course scheduled in Grade 9 |
| Personal Financial Literacy  | One half (0.5) Credit | Required course scheduled in Grade 11 |
| Electives                    | Eight (8)    | Student choice |

* Courses elected in English or Social Studies in this section must be in addition to the four (4.0) credits required in the English and Social Studies sections.
** Computer Science Principles AP and Computer Science AP can count as one credit for either Mathematics or Science.

**CAREER PORTFOLIO**
The Every Student Succeeds Act (ESSA), enacted in Dec. 2015, states all students deserve a comprehensive career development program. School districts must provide developmentally appropriate experiences to students enabling a sound decision making process as students transition through each level and beyond their high school years after graduation.

Students are required to have a career portfolio beginning in kindergarten and continue throughout 12th grade. The goal is for each student to graduate having accumulated at least 20 different career activities within their portfolio.

Students must also complete culminating tasks assigned to them via their School Counselor prior to graduating from high school. The purpose of the culminating project is to assure that students are able to apply, analyze, synthesize, and evaluate information and communicate significant knowledge and understanding. Our goal is that every student graduates from Hempfield High School with a post-secondary plan.

**EARLY COMPLETION PROGRAM**
A Hempfield High School student may complete graduation requirements at the end of the first semester of the senior year. Approval from the principal is needed. A signed contract outlining the details for Early Completion is required.

All Hempfield High School graduation requirements must be fulfilled. Students who would like more information about the Early Completion Program should consult with their school counselor.
MASTERY OF THE PA KEYSTONE LITERATURE, MATHEMATICS & BIOLOGY STANDARDS

Students in the class 2020 and beyond must demonstrate proficiency in Algebra I, Biology, and Literature on the Pennsylvania Keystone Exams. All questions on the Keystone Exams are aligned to the PA Standards, Core Standards, Anchors and Eligible Content, which can be found on the SAS website. Students who do not demonstrate proficiency in any of the above tested areas must participate in the State’s Keystone re-test. Prior to the re-test, remediation and tutoring programs will be offered to students in their deficient area(s). Students who do not show proficiency on the Keystone Exam will complete the State approved Project Based Assessment (PBA) for each subject area the student has not demonstrated proficiency.

ALGEBRA 1 KEYSTONE EXAM

<table>
<thead>
<tr>
<th>Module</th>
<th>Categories</th>
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<tbody>
<tr>
<td>Module 1</td>
<td>Operations</td>
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<td>Linear Equations &amp; Inequalities</td>
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LITERATURE KEYSTONE EXAM

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<tr>
<td>Module 1</td>
<td>Nonfiction - Reading for Meaning</td>
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<td>Nonfiction - Analyzing and Interpreting Literature</td>
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<tr>
<td>Module 2</td>
<td>Fiction - Reading for Meaning</td>
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<td>Fiction - Analyzing and Interpreting Literature</td>
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BIOLOGY KEYSTONE EXAM

<table>
<thead>
<tr>
<th>Module</th>
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<tr>
<td>Module A: Cells &amp; Cell Processes</td>
<td>Basic Biological Principles</td>
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<td>The Chemical Basis for Life</td>
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<td>Bioenergetics</td>
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<td>Homeostasis and Transport</td>
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<td>Module B: Continuity &amp; Unity of Life</td>
<td>Cell Growth and Reproduction</td>
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<td>Theory of Evolution</td>
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<td>Ecology</td>
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</table>
Hempfield School District is committed to providing students with a variety of learning options. Our partnership with Penn Manor School District and their teachers allows us to offer a variety of online electives courses developed and instructed by teachers from both districts. Taking an online course through Open Campus PA prepares students for eventual online learning opportunities in higher education and the workplace, allows students scheduling flexibility, and offers courses that may not be available on-site. Learning and interacting with students and teachers from outside the Hempfield School District is a unique and valuable experience.

**Enrollment Procedure**

To enroll in an Open Campus PA course, simply select the course(s) through [PowerSchool](#).

Students scheduled for Open Campus PA courses during Semester 1 will receive self-enrollment directions via Schoology in August, shortly before the beginning of the school year. Students scheduled for Open Campus PA courses during Semester 2 will receive self-enrollment directions via Schoology in January, shortly before the beginning of Semester 2.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Recommended Grade</th>
<th>Quarter (Q) / Semester (S)</th>
<th>Units of Credit/Year</th>
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<tr>
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<tr>
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<td>Child Development 2: Conception through the Toddler Years</td>
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<td>OC4981</td>
<td>Introduction to Microbiology</td>
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<td>OC4921</td>
<td>Oceanography</td>
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<td>Q</td>
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<td>OC4961</td>
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<td>OC2911</td>
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<td>OC8681</td>
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<td>OC8691</td>
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<td>Latin 2</td>
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<td>OC6371</td>
<td>Medical Terminology</td>
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</tbody>
</table>
OC0011 FUNDAMENTALS OF DESIGN
0.5 Credit Grades 9-12

This online course will give students a strong foundation in two-dimensional design and composition. Using basic tools and processes, students create and compose works based on short instructional videos and online explorations to develop their understanding of the design process. Critical analysis and interpretation of art through short readings and written explanations will cultivate students’ knowledge and push them to embrace relevant vocabulary and descriptions of their personal hands-on art making processes. Students taking this course are required to have/purchase art supplies including (but not limited to) pencils, drawing paper, watercolor paper, brushes, and acrylic paints.

OC5641 PERSONAL FINANCE
0.5 Credit Grades 9-12

This introductory finance course provides students with a solid foundation for understanding the world of finance and making informed decisions about managing personal finances in adulthood. Students learn the connection between economics and setting and researching their own financial goals. Opening bank accounts, investing money, applying for loans, obtaining insurance coverage, career exploration, business and financial management, and making informed decisions about major purchases are some of the main topics included in this course. Finally, inspirational stories from individuals who planned well to teach their financial goals are shared.

OC1631 CREATIVE WRITING I
0.5 Credit Grades 9-12

This course is designed to give students who have already mastered basic writing skills a creative outlet. The course lessons and activities encourage the use of the writing process to develop personal essays, short stories, plays, and poems. Students will focus on developing characters, plot, and dialogue in plays and stories and on mastering imagery, meter, and rhythm in poetry.

OC1641 CREATIVE WRITING II
0.5 Credit Grades 9-12

Prerequisite: Completion of Creative Writing I OL.

This course is designed to give students who have already mastered basic writing skills a creative outlet. The course lessons and activities encourage the use of the writing process to develop personal essays, short stories, plays, and poems. Students will focus on developing characters, plot, and dialogue in plays and stories and on mastering imagery, meter, and rhythm in poetry.

OC1671 SCIENCE FICTION LITERATURE
0.5 Credit Grades 9-12

Students will examine science fiction literature and its impact on society. This course begins with a brief history of science fiction literature. Sub-genres of science fiction literature including time travel; biological science fiction; robots, mechs, and cyborgs; new worlds; aliens; and the dystopian future are all explored. The course also includes a novel requirement—a project that students will work to complete, throughout the course.

OC8831 CHILD DEVELOPMENT 1: INTRODUCTION AND THEORY
0.5 Credit Grades 9-12

This introductory course focuses on preparation and readiness for parenthood and/or child-related careers. Topics include family structures, child theorists, brain research, heredity, and environmental influences. After completion of this course with a grade of C or better, students may continue their study by enrolling in Child Development 2: From Conception through the Toddler Years (.5 cr.)
OC8832 CHILD DEVELOPMENT 2: CONCEPTION THROUGH THE TODDLER YEARS
0.5 Credit  Grades 9-12

Prerequisite: Completion of Child Development 1 with a grade of “C” or better.

This course is designed to sequentially follow the Child Development 1: Introduction and Theory course. Topics include intellectual, physical, social, and emotional development. Units of study relate to nutritional needs and learning through play and safety.

OC4701 ASTRONOMY
1.0 Credit  Grades 9-12

The universe is comprised of infinite space both inward and outward. In this course, we will attempt to discover just how big it truly is by using an array of celestial objects that exist around us. We will explore our night sky, constellations, solar system, galaxy, and what lies beyond the far reaches of space. In addition, we’ll learn about past and current projects for space exploration, as well as future ideas for space travel, but it all has to start with an introduction to the first astronomers. Our journey will also take us to black holes, quasars, supernovae, brown dwarfs, and current theories. Finally, we’ll explore how we make observations from Earth and touch on the mechanics of the tools that aid us in exploring the night sky. All content, activities, and assessments are presented online; however, the nature of this course requires some independent nighttime observation activities.

Mix & Match Science Mini-Electives: Choose any 2 for .5 credit or any 4 for 1 credit in science, or as a general elective.

OC4951 BOTANY
0.25 Credit  Grades 9-12

This course is a survey of the essential elements of botany, with a focus on the significant role of plants in human society. Topics include plant anatomy, horticulture and plant care, plant taxonomy, and the environmental and economic importance of plants.

Students will scientifically scrutinize the growth and development of a plant that they cultivate at home, reporting observations at intervals throughout the course. A deeper understanding of life sciences will be gained, providing the foundation for careers and/or recreational interests related to the fields of biology, agriculture, botany, and horticulture.

OC4941 INTRODUCTION TO ECOLOGY
0.25 Credit  Grades 9-12

What does it take to survive? A difficult fight for survival ensues on planet Earth. While we do not know if life exists elsewhere, the one thing we do know is that this same fight for survival would occur, if it does. Individual living units, called organisms, must compete for resources, energy, and building blocks. In this Introduction to ecology course, students will learn what these resources and building blocks are, how they link together to create life, and how organisms get what they need to survive. Students will examine the interrelationships between living things that create the tremendous diversity of life observed here on Earth.

OC4931 GEOLOGY
0.25 Credit  Grades 9-12

Students will build a working knowledge of earth sciences, particularly geology, into a more cohesive whole. Beginning with a review of origins, the student will learn more about rocks and minerals, their formation and structure, and the subsequent positioning of these rocks and their formations in the geologic strata. Students will then view these formations from the perspective of the geologic time scale. Any laboratory experiences will occur solely online via activities and simulations. This course is recommended for students interested in pursuing a career in the environmental sciences and/or the Earth sciences.
**OC4911 METEOROLOGY**  
0.25 Credit  
Grades 9-12  

Students study the basic elements of weather observation and how that information is used to develop computer models and a weather forecast. By the end of the course, students will have an opportunity to log observations and create a simple forecast of their own. In addition, students will learn about safety measures that must be implemented during dangerous weather events. Finally, the difference between weather and climate will be explored.

**OC4971 INTRODUCTION TO BIOCHEMISTRY**  
0.25 Credit  
Grades 9-12  
**Prerequisites:** Biology (required) and Chemistry (recommended)

Designed for students planning to enter the fields of health or science, this course provides practical insight into the discipline of biochemistry. Students will learn the value of a working knowledge of biochemical processes in almost every aspect of health, science, and other industries including agriculture and law enforcement. Organic chemistry is introduced, and the four building blocks of biochemistry (proteins, lipids, carbohydrates, and nucleic acids) are explored in-depth. The course culminates with a look at how advances in technology have been the catalyst for exponential growth in this area of science.

**OC4981 INTRODUCTION TO MICROBIOLOGY**  
0.25 Credit  
Grades 9-12  
**Prerequisite:** College Prep or Honors Biology

This course is designed for students who are interested in “zooming in” to life forms and processes at the microscopic level. The classification, structure and physiology of microorganisms are stressed, emphasizing specific microbes that cause disease. The role of anti-microbial agents and antibiotics are thoroughly examined. Finally, students will study the human immune system with respect to infectious disease. This course is highly recommended for students interested in the fields of health care, environmental science, and agriculture.

**OC4921 OCEANOGRAPHY**  
0.25 Credit  
Grades 9-12  

This course introduces the important physical processes of our oceans in a way that encourages understanding of both the conceptual physical principles and how these principles fit into the concept of Earth as a dynamic, interacting system. Initial focus is on the basic history laying the foundation of the principles upon which physical oceanography is based. These principles are then used to foster an understanding of waves, tides, currents, and large-scale ocean circulation. The activities in the course are designed to showcase the student’s knowledge of the concepts learned in class. Throughout the course, examples will be given to show how physical oceanography affects, and is affected by, the biological, chemical, and geophysical processes in the ocean. At the completion of this course, the student will have a working knowledge of the dynamics associated with Earth’s oceans.

**OC4961 ZOOLOGY**  
0.25 Credit  
Grades 9-12  

This informational and project-based course provides a practical introduction to the scientific study of the animal kingdom. Topics explored include: the hierarchy of life, an overview of multiple animal phyla, animal characteristics, physical anatomy and behavior, evolution, taxonomy, classification, nomenclature, and careers within the field of zoology. Throughout the course students incrementally complete a final project--the development of an electronic museum exhibit featuring a particular animal. Students interested in animal sciences, agricultural sciences, biology, or any career path that includes life sciences will benefit from taking this course.
**OC0641 POPULAR MUSIC IN AMERICA: ITS EVOLUTION AND CULTURAL HISTORY**  
0.5 Credit  
Grades 9-12  

Students embark on a fascinating journey beginning in the early 1900’s and culminating at present time, with the American story told through its music. Students delve into the evolution of popular music in America, beginning with folk music and the blues, rock & roll, the 1960’s, and each decade thereafter. Social, cultural, and political influences on music that is produced and consumed during each new generation are investigated and deliberated. This cross-curricular course combines the subjects of music and social studies to provide students with well-rounded insight into the evolution of popular music in America.

**OC2993 AP PSYCHOLOGY**  
1.0 Credit  
Grades 11-12  

Advanced Placement Psychology is an in-depth study of human behavior. Topics including learning, personality, abnormal psychology, therapy, and human development will be investigated. Textbooks are college-level and students will be expected to read independently. Analysis and synthesis will be demonstrated through the writing of essays and other activities. College credit and/or advanced placement may be obtained by achieving a satisfactory score on the standardized Advanced Placement Psychology exam.

**OC2911 CRIMINAL JUSTICE**  
0.5 Credit  
Grades 9-12  

This course is designed to provide an introductory overview of the U.S. justice process and the criminal justice system in general. Concepts of crime, deviance, and justice will be discussed, and general theories of crime causality will be examined. Individual rights in a democratic society will be explored, as will the legal definitions of various crimes. The organization and operation of the three basic components of the criminal justice system—the police, the courts, and corrections individually and in relationship to one another, will also be explored. The theme of individual rights vs. public order is the framework for the course content.

**TECHNOLOGY & ENGINEERING COURSES**

**OC8681 INTRODUCTION TO VIDEO GAME DESIGN**  
0.5 Credit  
Grades 9-12  

This online course provides students the opportunity to take their experience with, and interest in, playing video games to the next level—development of a video game. Video Game Design is an introductory project-based course that allows students to explore the psychology behind what attracts individuals to certain video games, simple video game design and development, and the business and marketing aspects of video game promotion. Students will create a game using simple software, develop a marketing plan to promote the game, and field test games developed by classmates. Students will utilize multiple skills and knowledge sets to develop a product for an authentic business scenario. The curriculum framework incorporates science, technology, engineering, and math (STEM), along with aspects of psychology, business, and writing. This is truly an inter-disciplinary course.

**OC8691 INTRODUCTION TO WEB DEVELOPMENT**  
0.5 Credit  
Grades 9-12  

Students are introduced to basic web design and development using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Students will learn to plan and design effective web pages; implement web pages by writing HTML and CSS code; enhance web pages with the use of page layout techniques, text formatting, graphics, images, and multimedia; and produce a functional, multi-page website. Upon successful completion of this course, students will have a practical foundation in web design using HTML and CSS.
**OC6313 LATIN 1**  
1.0 Credit  
Grades 9-12

In Latin I, we learn about what makes an ancient language so different from a modern language: inflection. In addition to learning about inflections, we will learn how to use those inflections to read a Latin text. Our study of the lives, thoughts, and customs of the Roman people will take place as we are engaged in reading a variety of Latin texts throughout the semester. In each module of the course, we look at the connections between Latin and English. And throughout the semester, you will be watching films of your own choosing about ancient Roman culture and history.

**OC6323 LATIN 2**  
1.0 Credit  
Grades 9-12  
*Prerequisite: Successful completion of Latin 1*

In Latin II, we will continue the study of some important concepts in Latin grammar. These grammatical concepts will usher us into the world of Roman thought and help us to understand how they expressed and communicated ideas via grammar. We move from a word by word translation of text into an interpretation of ideas expressed solely by a grammatical form. In addition, student spend time focusing on the great literary work of the Roman author Vergil -- The Aeneid. We will be reading adapted prose excerpts from this poem and learning about how Emperor Augustus used this work to help fashion his political agenda and renew the identity of the Roman people and its leaders.

**OC6371 MEDICAL TERMINOLOGY**  
0.5 Credit  
Grades 9-12

This online course introduces students to the structure of medical terms, their etymology, and their connection to the Latin language. This includes: prefixes, suffixes, word roots, combining form, singular and plural forms, plus medical abbreviations and acronyms. Students achieve comprehension of medical vocabulary related to medical procedures, prescriptions terms and abbreviations, human anatomy and physiology, and pathology. The knowledge and skills gained in this course will provide students thinking of entering the healthcare field with a deeper understanding of the application of the language of health and medicine. Students are introduced to these skills through direct instruction, individual practice, objective end-of-unit assessments, and two project-based authentic applications of knowledge.
A number of occupationally-oriented courses are available through the Lancaster County Career and Technology Schools located in Mount Joy, Willow Street, and Brownstown. See below for offerings. Detailed descriptions of Career and Technology Center courses can be found by visiting www.lancasterctc.edu.

Students can apply the fall of their Junior and/or Senior year.

Students desiring such educational opportunities should meet with their school counselor for supplemental information and materials. Student applications for CTC are due in the Counseling Office in early January. Acceptance letters are sent to students by the CTC in the spring.
Students must have earned a minimum of the following credits to participate in a full day program senior year:

**English - 3 credits**
- English 9
- English 10
- English 11

**Social Studies - 3 credits**
- American History
- World History
- Government and Economics

**Math - 3 credits**

**Science - 3 credits**
- General Science
- Biology
- Science Elective

**Physical Education - 1.50 credits**
- Grade 9
- Grade 10
- Grade 11

**Health - 0.50 credit**

**Arts or Humanities Electives - 2 credits**

**Fundamentals of Family & Consumer Sciences - 0.50 Credit**

**Personal Finance Literacy – 0.50 credit**

*Students will attend the Career and Technology Center for the entire day earning 8 credits upon successful competition.*
<table>
<thead>
<tr>
<th>Brownstown Campus</th>
<th>Mount Joy Campus</th>
<th>Willow Street Campus</th>
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<tbody>
<tr>
<td>Advanced Manufacturing Center</td>
<td>Advanced Manufacturing Center</td>
<td>Agriscience Center Animal</td>
</tr>
<tr>
<td>Cabinetmaking &amp; Wood Technology 48.0703</td>
<td>Electro-Mechanical Engineering Technology 15.0403</td>
<td>Production Science &amp; Technology 01.0901</td>
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<td></td>
<td>Precision Machining &amp; Computer-Aided Manufacturing 48.0599</td>
<td>Veterinary Assistant 51.0808</td>
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<td>Metals Fabrication 48.0506</td>
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<td>Welding Technology 48.0508</td>
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<td>Construction Technologies Center</td>
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<td>Commercial Construction/Management 46.0201</td>
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<td>Medical Assistant 51.0801</td>
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<td>Diesel Equipment Technology 47.0613</td>
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<td>RV &amp; Outdoor Power Equipment 47.0699</td>
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<td>Visual Communications Center</td>
<td>Culinary Arts Center</td>
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<tr>
<td>Commercial Art 50.040</td>
<td>Baking &amp; Pastry Arts 12.0501</td>
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<tr>
<td>Digital Design/Print Media 10.0399</td>
<td>Culinary Arts/Chef 12.0508</td>
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<td>Photography &amp; Digital Imaging 50.0406</td>
<td>Event Planning &amp; Tourism Services Management 52.1905</td>
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### Senior Half-Day Program Offerings

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<td>Advanced Health Careers (PM Session only) 51.0899</td>
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### Junior Half-Day Program Offerings

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<tr>
<th>Brownstown Campus</th>
<th>Mount Joy Campus</th>
<th>Willow Street Campus</th>
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<tr>
<td>Introduction to Careers 46.0201</td>
<td>Introduction to Construction Careers 46.0201</td>
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<td>Introduction to Culinary Careers 12.0508</td>
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<td>Introduction to Transportation Careers 47.0604</td>
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<td>Introduction to Visual Communications Careers 10.0399</td>
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</table>
CHAPTER 4
Course Selection
Chapter 4 | Section 2

Grade 9 Program of Studies

Use the following guidelines and your Curriculum Guide to plan your program of studies for next year. During each semester, your total credits attempted must add up to 4.0. Therefore, your total credits attempted for the year should add up to 8.0.

<table>
<thead>
<tr>
<th>Program</th>
<th>Semester (S) / Year (Y)</th>
<th>Everyday (E) / Alternate Days (A)</th>
<th>Units of Credit per Year</th>
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<td>S</td>
<td>E</td>
<td>1.0</td>
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<td>S</td>
<td>E</td>
<td>1.0 or 2.0</td>
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<td>General Science</td>
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<td>E</td>
<td>1.0</td>
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<tr>
<td>Fundamentals of Family &amp; Consumer Science</td>
<td>S</td>
<td>A</td>
<td>0.5</td>
</tr>
<tr>
<td>Physical Education</td>
<td>S</td>
<td>A</td>
<td>0.5</td>
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</table>
### ELECTIVES BY DEPARTMENT

- Electives without a "**" or "+" marking meet every other day for a semester and count 0.5 credits
- Electives marked with a "**" meet every day for a semester and count 1.0 credits
- Electives marked with a "+" meet every other day for the year and count 1.0 credits
- Electives marked with a "#" are prerequisites that must be taken before certain other electives can be selected - see course descriptions.

<table>
<thead>
<tr>
<th>ART</th>
<th>FAMILY &amp; CONSUMER SCIENCE</th>
<th>TECHNOLOGY &amp; ENGINEERING EDUCATION</th>
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<tr>
<td>#Fundamentals of Design (H0011)</td>
<td>Healthy &amp; Nutritious Cooking (H8701)</td>
<td>Intermediate Guitar (H0671)</td>
</tr>
<tr>
<td>Intermediate Guitar (H0671)</td>
<td>+Concert Choir (H0703)</td>
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<tr>
<td>Hot Glass I (H0271)</td>
<td>Nutrition for Life (H8751)</td>
<td>+Concert Band (H0823)</td>
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<td>+Concert Band (H0823)</td>
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<td>+Concert Band (H0823)</td>
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<td>*Contemporary Fashion I (H8763)</td>
<td>*Concert Strings (H0923)</td>
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<tr>
<td>World Crafts (H0251)</td>
<td>*Contemporary Fashion II (H8773)</td>
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<td>Today's Housing &amp; Interior Design (H8801)</td>
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<td>Fiber Arts I (H0081)</td>
<td>The Preschool Child (H8823)</td>
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<tr>
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<td>*Preschool Lab I (H8912)</td>
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<tr>
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<td>*Child Development (H8833)</td>
<td>*Rights and Events in a Modern World (H2553)</td>
</tr>
<tr>
<td>*Clay I (H0043)</td>
<td>Culinary Arts (H8721)</td>
<td>*Pennsylvania and Lancaster County (H2543)</td>
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<tr>
<td>MS Word / PowerPoint (H5721)</td>
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<tr>
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</tr>
<tr>
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<tr>
<td>*Spanish I, II, or III (H6413, H6423 or H6433)</td>
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<tr>
<td>Theatre Techniques (H1591)</td>
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<tr>
<td>#Communication Technology I (H1801)</td>
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<tr>
<td>#Communication Technology II (H1811)</td>
</tr>
<tr>
<td>Creative Writing (H1631)</td>
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<tr>
<td>Creative Writing (H1631)</td>
</tr>
<tr>
<td>Intermediate Piano (H0661)</td>
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</tbody>
</table>
**Chapter 4 | Section 3**

**Grade 9 Course Selection Form**

Student Name: ________________________ ID #___________________ Phone # __________________

**INSTRUCTIONS:**

- All students are required to **schedule courses that total 8 credits**.

- It is your obligation to select courses carefully, as you will be expected to continue with all scheduled subjects for the entire semester. Alternates will be used if your first choice of Electives is not available for scheduling. Please list your alternatives in order of preference.

- You may only select courses available for Grade 9 as listed in the 9th Grade section of the Course Selection Guide.

- The course selection and course change process will be followed as explained in the Course Selection Guide.

- All students must select a minimum of 8 Elective Courses, identified by placing E1, E2, E3, etc. next to the course.

---

**For the latest updated list of Hempfield High School approved NCAA core courses, please visit the NCAA Eligibility Center website at www.eligibilitycenter.org.**

<table>
<thead>
<tr>
<th><strong>REQUIRED for 9TH GRADE</strong></th>
<th><strong>MATH</strong></th>
<th><strong>SOCIAL STUDIES</strong></th>
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<td>H7111 Physical Education .5</td>
<td>H3943B Fundamentals of Math B 1</td>
<td>H2173 American History CP 1</td>
<td>H1173 English 9 CP 1</td>
<td>H4173 General Science CP 1</td>
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<td>H3043 Fundamentals of Pre-Algebra 1</td>
<td>H2183 American History Honors 1</td>
<td>H1183 English 9 Honors 1</td>
<td>H4183 General Science Honors 1</td>
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<td>H3143A Fundamentals of Algebra 1A 1</td>
<td>H2593 American History AP 1</td>
<td>H1853A Fundamentals of English 9 1</td>
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<td>H3053 Foundations of Pre-Algebra 1</td>
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<td>H9413A Fundamentals of Literacy 1</td>
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<td></td>
<td>H9413B Fundamentals of Literacy 1</td>
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**Student’s Signature____________________________________ Date________________**

**Parent’s Signature __________________________ Date________________**

**Parent’s E-Mail _____________________________________________________________________**
## ELECTIVES

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<tr>
<td>H0261A Sculpture</td>
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<tr>
<td>H0251 World Crafts</td>
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<td></td>
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<td>.5</td>
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<td>H0243A Printmaking: Monotype and Relief</td>
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<td>H0243B Printmaking: Silkscreen and Intaglio</td>
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<td>H5631 Entrepreneurship</td>
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<td>H5721 MS Word/Power Point</td>
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<td>H8303 Manu. Technology I</td>
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<td>H8413 Power Technology</td>
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<td>H8503 Materials &amp; Processes I</td>
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<td>H8603 Intro to Drafting &amp; Design</td>
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<td>H8653 Stage Design</td>
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<tr>
<td>H9711 Research Pathways I</td>
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<td>H0571 Music Production</td>
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<td>H0631 Pop, Rock, Jazz</td>
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<td>H0641 Beginning Piano</td>
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<tr>
<td>*H0833 Symphonic Band</td>
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</table>

* Classes meet for an entire school year
Chapter 4 | Section 4

GRADUATION REQUIREMENT – GRADE 9

8941 FUNDAMENTALS OF FAMILY & CONSUMER SCIENCES
0.5 Credit
Grade 9

This course, required of all ninth grade students, provides students with an opportunity to demonstrate proficiency in the PA Academic Standards for Family and Consumer Sciences, as well as Career Education and Work.

Fundamentals of Family and Consumer Sciences is an introductory course focusing on the development of management skills indicative of a healthy family. Topics studied will include: personal finances, consumer rights and responsibilities, housing decisions, the family life cycle, interpersonal communication, decision-making skills, science and technology influences, nutrition, weight and meal management, child development, and parenting and career education. The computerized Real Care Baby Project is experienced by students as a requirement of this course as well.

7111 PHYSICAL EDUCATION (PERSONAL WELLNESS & FITNESS)
0.5 Credit
Grade 9

Students are required to pass 2 credits of Health & Physical Education during high school. In grade 9, Physical Education classes provide the student with a varied program of instruction and experiences designed to teach the basics of personal wellness and fitness. A variety of team and individual activities are used to help students evaluate their own fitness levels, assess their degree of wellness, and identify activities they may wish to explore for further fitness development. Use of heart rate monitors will be employed to help the student assess their level of exercise intensity, as they work to achieve improved cardiovascular fitness. The “Five Components of Health Related Fitness” are taught, and activities are planned to help students learn about these important areas, while also experiencing personal growth during the required semester long course.
Student Name: ___________________________________________ Graduation Year: ________________

Career Objective: __________________________________________

Post Secondary Education Goal:

____ 4-Year College/University  ____ 2-Year College  ____ 2-Year Trade/Technical School

____ Industry Certification Program  ____ Military  ____ Employment (after high school)

For your own reference, it is highly recommended that you complete the form on the following page. This should be a cooperative effort among parents and students. Please discuss this with your teachers and counselors. The completion of this form will provide you with valuable information in planning for the 2020-2021 school year, as well as your entire high school career. It will help in the development of an educational plan that will prepare you for you chosen post high school educational and career goals. Space is available in the required course areas. (English, Science, etc.) to write in specific course titles. Blank spaces should be filled with electives to equal eight (8) total courses per year.
<table>
<thead>
<tr>
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<th>Grade 11</th>
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CHAPTER 6
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*Fundamentals of Design is a prerequisite course for all Art courses.

**It is recommended that these two courses be taken consecutively in the same year.

To Review Online Art Course Options, Please Click Here.
*Fundamentals of Design is a prerequisite course for all Art courses.

In addition to the regular semester offerings, Fundamentals of Design is also offered as a two-week intensive summer study option each June to allow incoming freshmen (and other interested upperclassmen) to complete this prerequisite over the summer, for .5 credits toward graduation. The summer school fee covers all supplies and two field trips to off-site locations. Upon the successful completion of this course, students will be eligible for all entry-level art courses. Look for information publicized each winter to take advantage of this dynamic learning opportunity.

Studies are designed to give students a strong foundation in two dimensional design and composition. Using a variety of materials, tools, and processes, students will create and compose art works based on The elements and principles of compositional design. Studies will reference artists, art works, styles, and historical movements. Critical analysis and interpretation of art works will be included.

**0H011 FUNDAMENTALS OF DESIGN**

0.5 Credit Grades 9-12

Studies are designed to give students a strong foundation in two dimensional design and composition. Using a variety of materials, tools, and processes, students will create and compose art works based on The elements and principles of compositional design. Studies will reference artists, art works, styles, and historical movements. Critical analysis and interpretation of art works will be included.

**H0261A SCULPTURE I**

0.5 Credit Grades 9-12

_Prerequisite: Completion of Fundamentals of Design with a passing grade._

Media including clay, plaster, wood, paper, metal, and found objects will allow students to explore the 3-Dimensional aspects of space/design. Both historical and contemporary approaches will guide students through art making activities including techniques in mold making, carving, plaster casting, and the additive/subtractive methods. Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.

**H0251 WORLD CRAFTS**

0.5 Credit Grades 9-12

_Prerequisite: Completion of Fundamentals of Design with a passing grade._

World civilizations will be used as a springboard for a variety of art investigations. Students will explore bookmaking, textiles, pottery, jewelry making, and other approaches to international traditions in the fine arts. Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.

**H0121 DRAWING I**

0.5 Credit Grades 9-12

_Prerequisite: Completion of Fundamentals of Design with a passing grade._

This course provides an introduction to a variety of techniques, styles, and media in drawing. Subject matter includes: figure, portrait, still-life, and landscape drawing. Instruction includes: lecture, demonstrations, and critiques.

**H0271 HOT GLASS I**

0.5 Credit Grades 9-12

_Prerequisite: Completion of Fundamentals of Design with a passing grade._

Through lampworking, slumping, and fusing students will explore hot glass methods used to form/manipulate shapes. Cold glass techniques will also be explored to investigate stained glass techniques.
H0221 DRAWING II
0.5 Credit  Grades 10-12
Prerequisite: Completion of Drawing I with a “C” average or better and teacher/Art supervisor approval.

The requirements of this course will include drawing a variety of subject matter. Technique will be stressed for each of the projects. Media used include pencil, pen and ink, charcoal, pastels. Examples of subjects are: figure drawing, still-life, and landscape.

H0321 DRAWING III
0.5 Credit  Grades 10-12
Prerequisite: Completion of Drawing II with a “C” average or better and teacher/Art supervisor approval.

In this course, emphasis will be placed on conceptualization and mastery of drawing skills. The course is intended to develop the students’ own styles and approaches. Much of the work done in this course will be toward the development of a portfolio.

H0421 DRAWING IV
0.5 Credit  Grades 10-12
Prerequisite: Completion of Drawing III with a “C” average or better and teacher/Art supervisor approval.

This course is an extension of Drawing III, with emphasis on drawing the figure and working from life. Students will be encouraged to explore individual areas of interest and expression, often having their choice of styles and media. Instruction will also be given on how to prepare a portfolio, and individualized assignments will be used to strengthen it.

H0081 FIBER ARTS I
0.5 Credit  Grades 9-12
Prerequisite: Completion of Fundamentals of Design with a passing grade.

This course will give students an overview introduction of fiber work using natural and man-made materials. Areas of weaving, surface design, basketry, beadwork, quilting, and rug-making will be explored using techniques such as batik, tye dye, coiling, knotting, stitchery, and applique. Many of the techniques can be applicable to wearable art & 3-D forms. Emphasis will be placed on creative design concepts, craftsmanship, and skillful and imaginative use of materials. Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.

H0091 FIBER ARTS II
0.5 Credit  Grades 10-12
Prerequisite: Completion of Fibers I with a “C” average or better and teacher/Art supervisor approval.

This advanced course in fibers is designed for students who want to continue work with fibers and concentrate their study on specific areas of their choice. Students will choose from two areas in Fibers I for concentrative study, which will include a mixed media piece. Fiber II students have the opportunity to choose one area for investigation and focus to produce an in-depth project on an individualized study basis. The selected concentration will emphasize expression, creativity, craftsmanship in fiber techniques, and presentation. Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.

H0281 COMMERCIAL ART/ILLUSTRATION
0.5 Credit  Grades 10-12
Prerequisite: Completion of Drawing I with a “C” average or better and teacher / Art supervisor approval.

Students will learn basic concepts of layout and visual communication. The course provides an introduction to a variety of techniques, styles, and media used to create a well designed visual message. Projects include: layouts for magazines and books, package design, fashion design, logotypes, and typography use. Instruction includes: lecture, demonstrations, and critiques.
H0291 HOT GLASS II  
0.5 Credit  
Grades 10-12  
Prerequisite: Completion of Fundamentals of Design and Hot Glass I with a passing grade.

This course will offer extended experience in all of the skill areas in Hot Glass I. Advanced techniques in lampworking, slumping and fusing will take students beyond their initial endeavors as techniques are expanded beyond the basic level. **A lab fee will accommodate expendable supplies/materials.**

H0043 CLAY I  
1 Credit  
Grades 9-12  
Prerequisite: Completion of Fundamentals of Design with a passing grade.

This course concentrates on beginning clay techniques such as: pinch, coil, slab and hand building to produce both relief and three dimensional works of art. The student will design and construct works based on several categories of ceramics, including functional and non-functional objects using various surface design techniques. Through lecture and demonstration the student will be exposed to the history of ceramic arts and clay forms of various cultures. **Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.**

H0063 FINE METALS I  
1 Credit  
Grades 9-12  
Prerequisite: Completion of Fundamentals of Design with a passing grade.

This course introduces students to basic metal working techniques of sawing, filing, and hand finishing used to fabricate a variety of works in fine metals. Emphasis is placed on two and three dimensional aspects of planning and designing jewelry. Students will learn flat metal construction methods, including cold connections and soldering, simple stone setting and lost wax casting, as well as, incorporation of clay, plastic, glass, and other non-metal materials in mixed media objects.

H0261B SCULPTURE II  
0.5 Credit  
Grades 9-12  
Prerequisite: Completion of Fundamentals of Design and Sculpture I with a “C” average or better.

Using media similar to what was utilized in Sculpture I, students will stretch and transcend their artistic wisdom of historical and contemporary approaches to crafting three-dimensional forms. Deepened understandings of the additive and subtractive methods along with investigations into how we define dimensional space will guide learners to fully shape and manipulate the many dynamics of design in the third dimension.

H0043 CLAY I  
1 Credit  
Grades 9-12  
Prerequisite: Completion of Fundamentals of Design with a passing grade.

This course concentrates on beginning clay techniques such as: pinch, coil, slab and hand building to produce both relief and three dimensional works of art. The student will design and construct works based on several categories of ceramics, including functional and non-functional objects using various surface design techniques. Through lecture and demonstration the student will be exposed to the history of ceramic arts and clay forms of various cultures. **Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.**
H0053 CLAY II
1 Credit  Grades 10-12
**Prerequisite:** Completion of Clay I with a “C” average or better and teacher/Art supervisor approval.

This course is designed for students who want to expand their skills while choosing specific areas of ceramics to explore. The student will investigate contemporary ceramic artists and produce works that express both an understanding of cultures and a sense of personal vision. This course offers work in developing wheel thrown techniques. *Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.*

H0053A ADVANCED CLAY – INDEPENDENT STUDY
1 Credit  Grades 11-12
**Prerequisite:** Completion of Fundamentals of Design, Clay I and Clay II with an “A” average and teacher/Art supervisor approval.

This course will endeavor to utilize all pre-existing curriculum practices from Clay I and II with the intent on students developing an investigation/exploration from a self-prescribed plan of action. Students will be expected to work independently through their plan of growth and discovery toward a set of goals. Teacher
monitoring of journal work, research and overall production will allow students to utilize the clay classroom as a professional studio. **Lab fees will accommodate expendable supplies/materials.**

**H0063 FINE METALS I**

1 Credit  
Grades 9-12  
**Prerequisite:** Completion of Fundamentals of Design with a passing grade and teacher/Art supervisor approval.

This course introduces students to basic metal working techniques of sawing, filing, and hand finishing used to fabricate a variety of works in fine metals. Emphasis is placed on two and three dimensional aspects of planning and designing jewelry. Students will learn flat metal construction methods, including cold connections and soldering, simple stone setting and lost wax casting, as well as, incorporation of clay, plastic, glass, and other non-metal materials in mixed media objects.  
**A lab fee will accommodate expendable supplies/materials.**

**H0073 FINE METALS II**

1 Credit  
Grades 10-12  
**Prerequisite:** Completion of Fine Metals I with a “C” average or better and teacher/Art supervisor approval.

This advanced course will use and expand the skills and design concepts acquired in Fine Metals I. Centrifugal casting, raising, and the use of alternative materials will be covered in areas of study. Emphasis will be placed on developing theme-related designs & 3-D forms using imaginative concepts and personal expression. Students will incorporate knowledge of art history and culture in their works.  
**A lab fee will accommodate expendable supplies/materials.**

**H0073A ADVANCED FINE METALS – INDEPENDENT STUDY**

1 Credit  
Grades 11-12  
**Prerequisite:** Completion of Fundamentals of Design, Fine Metals I, and Fine Metals II with an “A” average and teacher/Art Supervisor approval.

This course will endeavor to utilize all pre-existing curriculum practices from Fine Metals I and II with the intent on students developing an investigation/exploration from a self-prescribed plan of action. Students will be expected to work independently through their plan of growth and discovery toward a set of goals. Teacher monitoring of journal work, research and overall production will allow students to utilize the jewelry lab as a professional studio.  
**Lab fees will accommodate expendable supplies/materials.**

**H0233 PAINTING I**

1 Credit  
Grades 9-12  
**Prerequisite:** Completion of Fundamentals of Design with a passing grade.

The painting curriculum is designed to give students experience in a variety of techniques, styles, and media in painting. The course will emphasize basic painting skills, while recognizing the importance of imagination and self-expression. The intent is not only to develop particular skills, but also to instill a sense of art history and an awareness of contemporary thought. Instruction includes: lectures, demonstrations, and critiques.  
**Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.**
**H0333 PAINTING II**
1 Credit  
Grades 10-12  
Prerequisite: Completion of Painting I with a “C” average or better and teacher / Art supervisor approval.

Students will focus on two areas of painting for the first quarter. Areas of choice include: watercolor, acrylics, tempera, oils, and mixed media.

The second quarter work will be based on a written plan agreed upon by both the student and the instructor. The work will include an in-depth study of an artist or style of painting, a portfolio review of previous work, exploration in a painting technique that produces a body of work that emphasize individual expression, creativity, technique, and craftsmanship. Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.

**H0243A PRINTMAKING: MONOTYPE & RELIEF**
.5 Credit  
Grades 9-12  
Prerequisite: Completion of Fundamentals of Design with a passing grade.  

Students will be encouraged to explore their independent conceptual ideas through processes unique to printmaking. Experimentation and variation will be emphasized with the monotype and relief printmaking methods, including: linoleum cut, woodcut and collograph techniques. Students will investigate these techniques through demonstration, practical application, collaboration and group discussion.

**H0343A ADVANCED PRINTMAKING: MONOTYPE & RELIEF**
.5 Credit  
Grades 10-12  
Prerequisite: Completion of Fundamentals of Design with a passing grade. Completion of H0243A Printmaking: Monotype & Relief with a “C” average or above.

Students will continue to explore by diving deeper into personally developed independent concepts and ideas through processes unique to printmaking. Experimentation and variation will be emphasized through personal pathways with individually selected techniques such as: linoleum cut, woodcut and collograph techniques. Students will investigate these techniques through demonstration, practical application, personal exploration, collaboration and group discussion.

**H0243B PRINTMAKING: SILKSCREEN & INTAGLIO**
.5 Credit  
Grades 9-12  
Prerequisite: Completion of Fundamentals of Design with a passing grade.  

Students will be encouraged to explore their independent conceptual ideas through processes unique to printmaking. Experimentation and variation will be emphasized through the stencil (silkscreen and related stencil techniques) and intaglio (Italian word meaning “to incise”) printmaking methods. Students will investigate these techniques through demonstration, practical application, collaboration and group discussion.

**H0343B ADVANCED PRINTMAKING: SILKSCREEN & INTAGLIO**
.5 Credit  
Grades 10-12  
Prerequisite: Completion of Fundamentals of Design with a passing grade. Completion of H0243B Printmaking: Silkscreen & Intaglio with a “C” average or above.

Students will continue to explore by diving deeper into personally developed independent concepts and ideas through processes unique to printmaking. Experimentation and variation will be emphasized through personal pathways with individually selected techniques rooted in the silkscreen and intaglio processes. Students will investigate these techniques through demonstration, practical application, personal exploration, collaboration and group discussion.
H0431 BREADTH PORTFOLIO AP – FIRST SEMESTER
0.5 Credit Grade 12

Prerequisites: Department Recommendation and Portfolio / Interview acceptance of the Art Supervisor. Course Requirements: Minimum grade of “C” in Fundamentals of Design, Drawing I and Drawing II. Prior or concurrent scheduling of Drawing III, Drawing IV, Painting, or Printmaking.

This course is designed for students seriously committed to studying art and the cultivation of advanced skills, in a variety of media that are equivalent to a first year college Foundation Art Course. The course will follow the Advanced Placement Portfolio guidelines for the Quality and Breadth sections for AP 2-D Design submission. Course work combines class studio assignments with art theory, art history, journal work and critiques. Outside class assignments are required on a regular basis as students will target and explore a chosen Visual Idea. Work will focus on a process of investigation to lead students through a plan of action toward growth and discovery. It is recommended that students sign up for the sister course, H0441 – CONCENTRATION PORTFOLIO AP, in the spring, to complete a well-rounded portfolio and meet the necessary required elements for AP College Board Portfolio submission. Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.

H0441 CONCENTRATION PORTFOLIO AP – SECOND SEMESTER
0.5 Credit Grade 12

Prerequisites: Department Recommendation and Portfolio / Interview acceptance of the Art Supervisor. Course Requirements: Minimum grade of “C” in Fundamentals of Design, Drawing I and Drawing II. Prior or concurrent scheduling of Drawing III, Drawing IV, Painting or Printmaking.

This course is designed for students seriously committed to studying art and the cultivation of advanced skills, in a variety of media that are equivalent to a first year college Foundation Art Course. The course will follow the Advanced Placement Portfolio guidelines for the Concentration section for AP 2-D Design submission. Course work combines class studio assignments with art theory, art history, journal work and critiques. Outside class assignments are required on a regular basis as students will target and explore a chosen Visual Idea. Work will focus on a process of investigation to lead students through a plan of action toward growth and discovery. It is recommended that students sign up for the sister course, H0431 – BREADTH PORTFOLIO AP, in the fall prior to taking this course. This will facilitate the only possible way to successfully complete the required elements for complete portfolio submission to the College Board. Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.
CHAPTER 7

Business Computer and Information Technology
## ACCOUNTING

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## FINANCE

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## BUSINESS INFORMATION SYSTEMS

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### COURSE SUGGESTIONS BASED ON COLLEGE BOUND/CAREER PATH INTEREST

If you are planning on a career in Business after high school, the Business Education Department recommends you elect the following courses for your specific career path.

To Review Online BCIT Course Options, Please Click Here.
H5203 ACCOUNTING I
1 Credit Grades 10-12

Accounting I is an introductory course covering the main concepts of modern day accounting, including the famous accounting equation. Initially, the entire accounting cycle is developed and learned using manual records. After gaining the manual knowledge, the students apply their knowledge using computers and accounting software for merchandising, manufacturing, and service businesses. Students gain the ability to record business transactions, create financial statements, and analyze financial statements in accordance with the standards of accounting. After completing this class, students will have the skills needed to be a book-keeper for a small business.

H5213 ACCOUNTING II – HONORS
1 Credit Grades 11-12
Prerequisite: Accounting I (C+ or higher)

Accounting II continues developing the student’s mastery of the accounting concepts. This honors course develops abilities that help students read and analyze financial statements of companies. Students will spend a portion of the semester studying financial accounting and managerial accounting. Financial accounting covers the external uses of accounting, mainly the production of accurate financial statements. Managerial accounting focuses on the internal uses of accounting, the development of reports used to make well-founded financial decisions. This course has a strong focus building the student’s financial analytical abilities.

H5613 MARKETING IN BUSINESS, SPORTS, AND ENTERTAINMENT (MBSE)
1 Credit Grades 10-12

This course involves learning 21st-Century skills in the world of business, sports and entertainment marketing and management. Students will learn the key functions of marketing and how those functions are applied to the business world with an emphasis on the sports and entertainment industry. Case studies and technology based activities are meaningful components of this course. This course can provide the foundation for a challenging and lucrative career and also serve as a motivation for students to study marketing at a higher level.

H5631 ENTREPRENEURSHIP/BUSINESS LEADERSHIP
0.5 Credit Grades 9-12

In this course, students learn the essential attributes of an entrepreneur and the stages a person goes through in taking an idea and growing it into a successful business. This course provides practical insights into the differences between effective leadership and management by exploring workplace concepts.

H5641 PERSONAL FINANCIAL LITERACY
0.5 Credit Grade 11 Requirement

This course will provide comprehensive classroom experiences that allow students to develop the knowledge and skills needed to make informed decisions as a consumer. Students will develop the financial skills related to income, taxes, financial planning, banking, consumer credit, budgeting, savings and investment, and insurance. Guest speakers and technology integrated learning experiences will be experienced throughout the course.

H5721 MS WORD AND POWERPOINT
0.5 Credit Grades 9-12

Using Microsoft Office certified texts, students will gain the tools needed to work more efficiently. By using the word processing and presentation software, students will be able to communicate ideas effectively, achieve more in less time, and stay on top of information. These two Office components are very popular programs utilized in both the educational and business environment.
MS Word will help students develop proficiency in editing, centering, formatting reports and term papers, preparing tables, composing letters, constructing outlines, and working with various other business documents.

MS PowerPoint allows students to enhance their oral presentations by creating dynamic online slide-shows. Presentations can include: handouts, outlines, speakers’ notes, charts, and clipart.

*It is recommended that this course be paired with MS Excel and Access.*

**H5731 MS EXCEL AND ACCESS**  
0.5 Credit  
Grades 10-12

Using Microsoft Office certified texts, students will be able to communicate ideas effectively, achieve more in less time, and stay on top of information. Whether you are an expert or a novice, the spreadsheet and database programs will help you work more efficiently, turning your data into answers you can count on. These two Office components are very popular programs utilized in the business environment.

MS Excel will help students analyze data and find solutions. Students will organize and calculate data, track financial data, and create charts and graphs.

MS Access will help students learn to sort, store, retrieve, analyze, and report information in a database.  
*It is recommended that this course be taken with MS Word and PowerPoint.*

**H5751 ADVANCED OFFICE**  
0.5 Credit  
Grades 11-12  
*Prerequisite:* MS Word/PowerPoint and MS Excel/Access

To elect this course, students must meet the prerequisite or be approved by a Business teacher. Using simulations and teacher-prepared projects, students will integrate the word processing, spreadsheet, database, and presentation software applications they have learned in previous computer courses. Time will also be spent on Internet projects and web page design.

**H5721 MS WORD AND POWERPOINT**  
0.5 Credit  
Grades 9-12

Using Microsoft Office certified texts, students will gain the tools needed to be more efficient. By using the word processing and presentation software, students will be able to communicate ideas effectively, achieve more in less time, and stay on top of information. These two Office components are very popular programs utilized in both the educational and business environment.

MS Word will help students develop proficiency in editing, centering, formatting reports and term papers, preparing tables, composing letters, constructing outlines, and working with various other business documents.

MS PowerPoint allows students to enhance their oral presentations by creating dynamic online slide-shows. Presentations can include: handouts, outlines, speakers’ notes, charts, and clipart.
CHAPTER 8
English Language Arts
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**These English electives do not fulfill an English credit for graduation requirements. Final examinations are given in all courses in the English department. CTC students, please click here to see requirements.**

Four (4.0) Units of Credit are required to meet Graduation Requirements. These courses include, English 9, English 10, English 11, and English 12 or an English AP. Courses elected in English or Social Studies in this section must be in addition to the four (4.0) credits required in the English and Social Studies sections. Additionally, students in the class of 2020 and beyond must achieve a score of proficient or advanced on the Algebra Keystone Exam. Students not demonstrating proficiency in any of the above tested areas must participate in the state’s Keystone re-test. Prior to the re-test, remediation and tutoring programs will be offered to students in their deficient area(s).

**To Review Online English Course Options, Please Click Here.**

**H1153 FOUNDATIONS OF ENGLISH 9**
1 Credit Grade 9

*Prerequisite: Teacher Recommendation*

This English course is designed to meet the needs of students who have consistently experienced below grade level achievement in the English Language Arts. The major areas of emphasis in this course are reading comprehension, basic writing and speaking skills, and critical thinking.

**H173 ENGLISH 9 CP**
1 Credit Grade 9

This English course stresses grammar, usage, composition, literature and speech in order that students may improve important communication skills. Emphasis is on writing improvement, literary awareness, and vocabulary development. All students complete a required research paper.

**1183 ENGLISH 9 HONORS**
1 Credit Grade 9

An accelerated program for students who have excelled in English Language Arts, this course introduces major types of writing, encourages wide and varied reading, develops speaking skills, refines composition skills through grammar study, and expands vocabulary. Writing skills are emphasized. A formal research paper is required. **Students selecting this course must complete an assigned reading project as preparation for the course.**

**ELECTIVES**

**H1531 SPEECH & COMMUNICATION**
0.5 Credit Grades 9-12

Speech & Communication is an in-depth study of the role and process of oral communication in daily life. The course will offer the student an opportunity to become competent in understanding himself and his values, in building a relationship with another person on various levels, in being an effective leader or participant in various kinds of groups, and in becoming a confident and effective public speaker. **This course does not fulfill an English credit for graduation requirements.**

**H1253 FOUNDATIONS OF ENGLISH 10**
1 Credit Grade 10

*Prerequisites: Teacher Recommendation & successful completion of English 9*

This course is designed to meet the needs of students who are reading substantially below grade level or who have consistently experienced difficulty in meeting minimum expectations in written or oral communication. Major areas of emphasis in this course include reading comprehension, fundamental grammar study, and the development of fundamental writing skills.

**H1273 ENGLISH 10 CP**
1 Credit Grade 10

*Prerequisite: Successful completion of English 9.*
This course includes the study of public speaking, grammar, expository writing, a genre approach to literature, and vocabulary study. Students will continue their study of grammar in context with the research paper process working toward developing an effective expository writing style.

**H1283 ENGLISH 10 HONORS**
1 Credit  
Grade 10  
**Prerequisite:** Successful completion of *English 9.*

Part of the honors English program, this course uses a genre approach to the study of literature. Other areas of emphasis include expository writing, scholarly research, vocabulary study and basic speech experiences. A critical research paper on an approved literary subject is required. Students selecting this course must complete assigned reading as a preparation for the course.

**H1353 FOUNDATIONS OF ENGLISH 11**
1 Credit  
Grade 11  
**Prerequisite:** Successful completion of *English 10.*

Part of the remedial English program, this course is designed for the student who has a documented history of difficulty in the study of English Language Arts. The course stresses basic grammatical concepts of the language, standard written English composition, and a study of world literature.

**H1363 ENGLISH 11**
1 Credit  
Grade 11  
**Prerequisite:** Successful completion of *English 10.*

This course provides a study of American literature from a thematic perspective. Reading comprehension, analytical skills, writing, and vocabulary study are areas that are emphasized. A research project is required.

**H1373 ENGLISH 11 CP**
1 Credit  
Grade 11  
**Prerequisite:** Successful completion of *English 10.*

This course provides a chronological and historical study of American literature. Reading comprehension, analytical skills, writing, and vocabulary study are areas of emphasis. A formal research paper and oral presentations are required.

**H1383 ENGLISH 11 HONORS**
1 Credit  
Grade 11  
**Prerequisite:** Successful completion of *English 10.*

English 11 Honors emphasizes a chronological approach to American literature. A continuation of the honors English program, it stresses those academic skills necessary for success in a competitive collegiate atmosphere. Critical thinking, expository writing, and vocabulary development are also included as well as a research paper involving critical analysis. Students selecting this course must complete assigned reading as a preparation for the course.

**H1393 ENGLISH AP ENGLISH LANGUAGE AND COMPOSITION**
1 Credit  
Grade 11  
**Prerequisite:** Teacher Recommendation

Equivalent to a college composition course, this AP class engages students in a study of rhetoric and writing through the analysis of a variety of complex and rhetorical texts. Students will evaluate, research and synthesize information to create rich prose for a variety of purposes and audiences. Additionally, students will study rhetorical elements, grammar, and semantic structures as they relate to meaning in writing. Students selecting AP English must complete a reading assignment prior to the start of the course. Successful completion of this course will prepare students for the AP examination. (This course is offered to both juniors and seniors.)

**H1463 ENGLISH 12**
1 Credit  
Grade 12  
**Prerequisite:** Successful completion of *English 11.*
This course uses a thematic and multicultural approach to explore questions of identity, power, family, and the American dream. Students will review major works and a selection of films, short stories, poems, and speeches. Students will be encouraged to make real world connections with the texts. Students will also study vocabulary and complete a basic research assignment.

**H1473 ENGLISH 12 CP**  
1 Credit  
Grade 12  
Prerequisite: Successful completion of English 11.

This course is a chronological study of British literature, including a study of English history in relation to the development of the literature and a survey of the development of the English language. Additionally, this course includes continued development of oral communication skills and language enrichment through vocabulary study. Several expository compositions and a major research paper are required.

**H1393 ENGLISH AP ENGLISH LANGUAGE AND COMPOSITION**  
1 Credit  
Grade 12  
Prerequisite: Teacher Recommendation

Equivalent to a college composition course, this AP class engages students in a study of rhetoric and writing through the analysis of a variety of complex and rhetorical texts. Students will evaluate, research and synthesize information to create rich prose for a variety of purposes and audiences. Additionally, students will study rhetorical elements, grammar, and semantic structures as they relate to meaning in writing. Students selecting AP English must complete a reading assignment prior to the start of the course. Successful completion of this course will prepare students for the AP Literature and Composition examination.

**ELECTIVES**

**H1531 SPEECH & COMMUNICATION**  
0.5 Credit  
Grades 9-12

Speech & Communication is an in-depth study of the role and process of oral communication in daily life. It will offer the student an opportunity to become competent in understanding himself and his values; in building a relationship with another person on various levels; in being an effective leader or participant in various kinds of groups; and most importantly, in becoming a confident and effective public speaker. **This course does not fulfill an English credit for graduation requirements.**

**H1551 JOURNALISM I**  
0.5 Credit  
Grades 10-12

Journalism is designed for students who desire to learn about writing for publication or who write for personal pleasure. All aspects of creative and standard writing are studied in a workshop atmosphere with a clinical approach under teacher supervision. Areas emphasized are news, features, sports, and editorial writing.
This course does not fulfill an English credit for graduation requirements.

H1561 JOURNALISM II
0.5 Credit Grades 10-12
Prerequisite: Journalism I

Journalism II is designed for students who have successfully completed Journalism I. Students in this course will take this class in combination with the students in Journalism I, and will serve as editors for the newspaper staff. Students will take on leadership roles and expand on their journalism skills that they learned in Journalism I.

This course does not fulfill an English credit for graduation requirements.

H1581 INTRODUCTION TO THEATER
0.5 Credit Grades 9-12

Introduction to Theater is designed to acquaint the student with acting as a creative force in the theater. It will introduce the student to body awareness, movement for the actor, vocal techniques, improvisation, characterization, monologues, audition etiquette, the basics of play production, multiple person scenes, and performance. The course will be an activity-oriented course, which will provide students with basic verbal and non-verbal communication skills, in addition to the principles of acting and performance. Student participation and performance will be a major portion of the course.

This course does not fulfill an English credit for graduation requirements.

H1591 THEATER TECHNIQUES
0.5 Credit Grades 9-12
Prerequisite: Introduction to Theater

Theater Techniques is designed for the advanced students of theater who has successfully completed Theater I or has permission from the instructor. This course will broaden the student’s knowledge of the basic techniques of performance and production by offering additional student-directed performances. Additionally, students will study the history of theater, theater occupations and terminology, theater styles, advanced characterization study, acting for the camera versus acting for the stage, and theater production. Students will be required to write and direct their own original productions. Student participation and performance will be a major portion of the course.

This course does not fulfill an English credit for graduation requirements.

H1603 ADVANCED THEATER TECHNIQUES
1.0 Credit Grades 10-12
Prerequisite: Introduction to Theater and Theater Techniques

Advanced Theater Techniques is built upon skills mastered in previous theater courses and is intended for the serious student of drama who is considering a vocation or avocation in theater, film, or the performing arts. Television and film acting are studied in addition to advanced stage techniques and auditioning. Students analyze scripts from the perspective of writers, directors, and actors; they also study the history of theater, period styles, and playwrights. Student participation and performance will be the main emphasis of the course.

This course does not fulfill an English credit for graduation requirements.

H1631 CREATIVE WRITING
0.5 Credit Grades 9-12

This course is designed to give students who have already mastered basic writing skills a creative outlet. The course will use the writing process in developing personal essays, short stories, plays, and poems. Students will focus on developing characters, plot, and dialogue in plays and stories and on mastering imagery, meter, and rhythm in poetry.

This course does not fulfill an English credit for graduation requirements.
H1641 CREATIVE WRITING II
0.5 Credit Grades 9-12
Prerequisite: Creative Writing

This course is designed to give students who have already mastered basic writing skills a creative outlet. The course will use the writing process in developing personal essays, short stories, plays, and poems. Students will focus on developing characters, plot, and dialogue in plays and stories and on mastering imagery, meter, and rhythm in poetry.

This course does not fulfill an English credit for graduation requirements.

H1651 HISTORY OF AMERICAN FILM
0.5 Credit Grades 10-12
Prerequisite: English 9

History of American Film is a chronological study of American film from its 19th century origins through Hollywood’s Golden Age to the present. The study will begin with the “Magic Lantern” and Nickelodeon era. Students will then examine silent films and the development of Hollywood as the geographical center of American film. Other major units will include the Advent of the “Talkies,” Film and the Great Depression, Hollywood Goes to War, the Golden Age of Hollywood, Hollywood and the Turbulent Sixties, and Hollywood Today. Ancillary topics include individual studios and stars, film technique, and the economics of film. In addition to tests and frequent quizzes, students will be required to write one page reflections on two films per unit, participate in class discussions, take notes while viewing each film, and provide unique insight to small group discussions that will follow certain films throughout the course.

This course does not fulfill an English credit for graduation requirements.

H1801 COMMUNICATION TECHNOLOGY I
0.5 Credit Grades 9-12

Part of the English electives program, this course provides motivated students with a hands-on introductory experience in video production. The course explores camera operation, script and storyboard creation, lighting, audio production, and video editing. Also, the history of media and technology, as well as its effect on society will be discussed. By the end of the course, students will create a movie for social media, and have learned all the basic skills necessary to produce the live daily news program in Comm. Tech. II. Students will be required to complete group projects and a final video project. Students might be required to spend time outside of class to film projects, work in the communication center, or complete group work. This course does not fulfill an English credit for graduation requirements.

H1813 COMMUNICATION TECHNOLOGY II
1 Credit Grades 9-12
Prerequisite: Communication Technology I with a C+ or better and/or permission of the instructor.

Part of the English electives program, this course provides motivated students an opportunity to apply the basic video and audio production skills learned in the prerequisite Comm. Tech. I course. Students will be responsible for creating, organizing and producing The WHHS Morning Show, a daily, live news program shown to the entire school. Students learn to work as a team, assume leadership positions, and make technical and creative decisions under the pressure of a deadline. Every student will rotate through all production jobs, both on and off camera. In addition, students will be responsible for producing and editing news features for the news program. Students will need to spend time outside of class to videotape and edit projects or work in the communications center.

Comm. Tech II is also offered as a yearly every other day option only for students with an irreconcilable half-credit conflict with prior permission of the
instructor. This course does not fulfill an English credit for graduation requirements.

**H1823 COMMUNICATION TECHNOLOGY III**
1 Credit
Grades 10-12
**Prerequisite:** Communication Technology II with a C+ or better and/or permission of the instructor.

Part of the English electives program, this course provides the serious student of video production with advanced opportunities to be involved in a regularly produced professional television show airing online, and on local cable television. Comm. Tech. III and IV students work as an actual production company. They work in conjunction with the district’s Communications Office to produce Hempfield Happenings, a 30-minute television show which highlights events and information for the entire Hempfield School District. This might require students to leave the building and travel to other schools to cover district events. In addition, students must master the use of editing software. Students are required to be flexible with their schedules, and to spend time outside of class or the school day to videotape projects and work in the communications center.

This course does not fulfill an English credit for graduation requirements.

**H1833 COMMUNICATION TECHNOLOGY IV**
1 Credit
Grades 11-12
**Prerequisite:** Completion of Communication Technology III with at least a B average and permission of the instructor.

Part of the English electives program, this course provides the serious student of video production with advanced opportunities to be involved in a regularly produced professional television show airing online, and on local cable television. Comm. Tech. III and IV students work as an actual production company. They work in conjunction with the district’s Communications Office to produce Hempfield Happenings, a 30-minute television show which highlights events and information for the entire Hempfield School District. This might require students to leave the building and travel to other schools to cover district events. In addition, students must master the use of editing software. Students are required to be flexible with their schedules, and to spend time outside of class or the school day to videotape projects and work in the communications center.

This course does not fulfill an English credit for graduation requirements.

**H1843 COMMUNICATION TECHNOLOGY V**
1 Credit
Grade 12
**Prerequisite:** Completion of Comm. Tech. IV with at least a B+ and permission of the instructor.

Part of the English electives program, this course provides the serious student of media and communications with the experience to serve as a producer, instructor, and director of video programming at Hempfield. Students in this class will work with Comm. Tech. VI students to either (1) produce the WHHS news program, (2) produce a weekly web show as well as maintain a social media presence, (3) produce a complex film, and (4) prepare a portfolio project of Hempfield work. Individual conferences will be held with the teacher to discuss the content and requirements of your independent study.

This course does not fulfill an English credit for graduation requirements.

**H1853 COMMUNICATION TECHNOLOGY VI**
1 Credit
Grade 12
**Prerequisite:** Successful completion of Communication Technology V.

Part of the English electives program, this course provides the serious student of media and communications with the experience to serve as a producer, instructor, and director of video programming at Hempfield. Students in this class will work with Comm. Tech. VI students to either (1) produce the WHHS news program, (2) produce a weekly web show as well as maintain a social media presence, (3) produce a complex film, and (4) prepare a portfolio project of Hempfield work. Individual conferences will be held with the teacher to discuss the content and requirements of
H1853A FUNDAMENTALS OF ENGLISH 9
1 Credit
Grade 9

This course is designed to meet the needs of students who are reading significantly below grade level or who have consistently experienced difficulty in meeting minimum expectations in written and oral communication. This course emphasizes literacy skills using short stories, plays, poetry and novels, writing skills (including grammar and mechanics), content-related vocabulary, and spelling. Technology-related projects are also a component of this course.

The qualifying student’s IEP team determines placement in this course. Progress monitoring is an integral component. The decision to exit the course will also be made by the IEP team.

H9413A FUNDAMENTALS OF LITERACY 9A
H9413B FUNDAMENTALS OF LITERACY 9B

Students in this course have demonstrated a need for direct instruction in reading and writing. Therefore, the qualifying student’s IEP team determines placement in this course, as well as when students may exit the program. This course is designed for students who are reading significantly below their current grade level as demonstrated on the District Approved Benchmark Reading Assessment. In addition, PSSA results indicate Basic or Below Basic performance levels.

This course includes the Read Naturally Program which incorporates reading comprehension, vocabulary, and fluency. REWARDS is used to assist students to improve decoding of multi-syllabic words as well as improving fluency, vocabulary, and spelling. Students will utilize audio recordings, self-assessment, and goal setting skills to improve fluency and comprehension. Reading Advantage, PSSA Performance Indicator, and CLOZE in the Content Area are other programs used to improve reading skills. Technology is also integrated in this course.

H1863A FUNDAMENTALS OF ENGLISH 10
1 Credit
Grade 10

This course is designed to meet the needs of students who continue to read significantly below grade level and still experience difficulty in written and oral communication. This course emphasizes literacy skills using short stories, a graphic novel, poetry and a novel, writing skills (including grammar and mechanics), content-related vocabulary, and spelling. Technology-related projects are also a component of this course. The qualifying student’s IEP team determines placement in this course. Progress monitoring is an integral component. The decision to exit the course will also be made by the IEP team.

H1873A FUNDAMENTALS OF ENGLISH 11
1 Credit
Grade 11

This course is designed to meet the needs of students who continue to read significantly below grade level and still experience difficulty in written and oral communication. This course emphasizes literacy skills using short stories and novels, writing skills (including grammar and mechanics), content-related vocabulary, and spelling. Also, students will complete a research project as part of the course. Technology-related projects are also an element of this course. The qualifying student’s IEP team determines placement in this course. Progress monitoring is an integral component. The decision to exit the course will also be made by the IEP team.

H1883A FUNDAMENTALS OF ENGLISH 12
1 Credit
Grade 12

This course is designed to meet the needs of students who continue to read significantly below grade level and still experience difficulty in written and oral communication. This course emphasizes literacy skills using short stories and novels, writing skills (including
grammar and mechanics), content-related vocabulary, and spelling. Technology-related projects are also an element of this course. Students will develop a portfolio that includes job applications, resumes and other writing pieces needed to assist the student to prepare for transition. The qualifying student’s IEP team determines placement in this course. Progress monitoring is an integral component. The decision to exit the course will also be made by the IEP team.

**H1911 TEST PREPARATION: SAT/ACT**
0.5 Credit  Grades 10-12

**Prerequisite:** Algebra 2

This elective course is intended to provide additional instruction and practice with test-taking skills. The course is designed to meet the needs of students who desire extra practice and instruction in preparation for the PSATs, SATs, or ACTs. The focus of the course is on verbal, math, and writing skills. **This course does not fulfill an English credit for graduation requirements.**

**H9423A FUNDAMENTALS OF LITERACY 10A**
**H9423B FUNDAMENTALS OF LITERACY 10B**

**H9433A FUNDAMENTALS OF LITERACY 11A**
**H9433B FUNDAMENTALS OF LITERACY 11B**

**H9443A FUNDAMENTALS OF LITERACY 12A**
**H9443B FUNDAMENTALS OF LITERACY 12B**

1 Credit

Students in this course have demonstrated a need for direct instruction in reading and writing. Therefore, the qualifying student’s IEP team determines placement in this course, as well as when students may exit the program. This course is designed for students who are reading significantly below their current grade level as demonstrated on the District Approved Benchmark Reading Assessment. In addition, PSSA results indicate Basic or Below Basic performance levels.

This course includes the Read Naturally Program which incorporates reading comprehension, vocabulary, and fluency. REWARDS is used to assist students to improve decoding of multi-syllabic words as well as improving fluency, vocabulary, and spelling. Students will utilize audio recordings, self-assessment, and goal setting skills to improve fluency and comprehension. Reading Advantage, PSSA Performance Indicator, and CLOZE in the Content Area are other programs used to improve reading skills. Technology is also integrated in this course.
CHAPTER 9

English Language Development

ENGLISH LANGUAGE DEVELOPMENT PROGRAM

The HHS ELD program is an instructional program for identified students whose dominant language is not English. The goal of the ELD Program is to provide English Learners (ELs) with instructional support and resources that will enable them to participate fully in their educational experience in our schools and in their social lives in our community. The objectives of the ELD program are to develop interpersonal communication skills and academic language proficiency, while developing proficiency in the language domains of comprehension, listening, speaking, reading, and writing, with full participation in all instructional activities in the regular education curriculum and in extracurricular activities in our schools.

All ELs are appropriately screened and placed in ELD courses commensurate with the student's level of English proficiency. (LEVELS: Entering to Reaching).

ENGLISH LANGUAGE DEVELOPMENT COURSE OFFERINGS

The English Language Development (ELD) program is for each student whose dominant language is not English for the purpose of facilitating the student’s achievement of English proficiency and the English Language Proficiency standards. These courses cannot be used to satisfy the students’ English course requirements towards graduation.

<table>
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<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Semester (S) / Year (Y)</th>
<th>Units of Credit/Year</th>
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<td>English IB</td>
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<td>English IC</td>
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<td>English IIA</td>
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<td>English IIB</td>
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<td>English IIIA</td>
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<tr>
<td>9813B</td>
<td>English IIIB</td>
<td>S</td>
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<tr>
<td>9823A</td>
<td>English IVA</td>
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<tr>
<td>9823B</td>
<td>English IVB</td>
<td>S</td>
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# FAMILY AND CONSUMER SCIENCES COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Recommended Grade</th>
<th>Semester (S) / Year (Y)</th>
<th>Everyday (E) / Alternate Days (A)</th>
<th>Units of Credit/Year</th>
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<tr>
<td>*H8941</td>
<td>Fundamentals of FCS</td>
<td>9</td>
<td>S</td>
<td>A</td>
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<tr>
<td>H8701</td>
<td>Healthy and Nutritious Cooking</td>
<td>9-12</td>
<td>S</td>
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</tr>
<tr>
<td>H8713</td>
<td>Baking and Pastry Arts</td>
<td>10-12</td>
<td>S</td>
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<td>H8721</td>
<td>Culinary Arts</td>
<td>9-12</td>
<td>S</td>
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<td>H8733</td>
<td>Global Cuisine</td>
<td>9-12</td>
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<td>Nutrition for Life</td>
<td>9-12</td>
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<tr>
<td>H8763</td>
<td>Contemporary Fashion I</td>
<td>9-12</td>
<td>S</td>
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<td>H8773</td>
<td>Contemporary Fashion II</td>
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<tr>
<td>H8783</td>
<td>Contemporary Fashion Independent Study</td>
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<td>H8801</td>
<td>Today's Housing &amp; Interior Design</td>
<td>9-12</td>
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<td>H8823</td>
<td>The Preschool Child</td>
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<td>H8833</td>
<td>Child Development</td>
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<td>H8913</td>
<td>Preschool Laboratory I</td>
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<td>H8933</td>
<td>Preschool Laboratory II</td>
<td>10-12</td>
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*Required for Grade 9 students.*

To Review Online Family and Consumer Science Course Options, Please Click Here.
H8941 FUNDAMENTALS OF FAMILY AND CONSUMER SCIENCES
0.5 Credit             Grade 9
This course, required of all ninth grade students provide students with an opportunity to demonstrate proficiency in the PA Academic Standards for Family and Consumer Sciences, as well as Career Education and Work.

Fundamentals of Family and Consumer Sciences is an introductory course focusing on the development of management skills indicative of a healthy family. Topics studied will include: personal finances, consumer rights and responsibilities, housing decisions, the family life cycle, interpersonal communication, decision-making skills, science and technology influences, nutrition, weight and meal management, child development, and parenting and career education.

The computerized Real Care Baby Project is experienced by students as a requirement of this course as well.

H8701 HEALTHY AND NUTRITIOUS COOKING
0.5 Credit             Grades 9-12
Do you find yourself wanting to eat healthier? This course is designed to teach “lite” and time saving cooking methods and food selection. Students will prepare nutritious snacks and meals as they learn to modify recipes, making these recipes healthier. Learn to make healthier choices while grocery shopping and eating. Upon completion of this course, the term “fast food” will take on a whole new meaning as you prepare quick and nutritious culinary dishes that will help you maintain a healthier lifestyle.

H8713 BAKING AND PASTRY ARTS
1 Credit             Grades 10-12
This course is designed to teach the fundamental principles and the creative art of baking. Emphasis is on baking products such as quick breads, yeast breads, cakes, cookies, pies and other pastries. Students will follow recipes and bake from scratch. Various topics include functions of ingredients, accurate measurements, mixing methods, baking terminology, equipment safety and usage.

H8721 CULINARY ARTS
0.5 Credit             Grades 9-12
Culinary Arts provides learners with an introduction to basic food preparation. Emphasis is placed on preparation of a wide variety of foods, the use of correct equipment and techniques, and good consumer practices in the marketplace. Topics of study include: vegetables, fruits, eggs, and dairy. Students learn through teacher demonstration, laboratory experiences, and supplemental online learning experiences.

H8733 GLOBAL CUISINE
1 Credit             Grades 10-12
This course is for the student who wishes to learn about American and International Cuisine. This class is twofold as students have the opportunity to explore the melting pot of flavors and aromas that represent American cuisine and experience and enjoy the vast array of world cuisine. The global effects of geography, climate, heritage, and culture are studied to inform students how these factors influence a country’s food selection, and preparation. All this is at their fingertips as students begin to appreciate cultural diversity at the dinner table.

H8751 NUTRITION FOR LIFE
0.5 Credit             Grades 9-12
An active lifestyle requires optimum nutrition as well as physical activity and mental focus. This course will guide students through the questions and myths of the major nutrients: water, carbohydrates, protein, fat, vitamins, and minerals. Other topics covered in this course are: body fat composition, pre-activity and post-activity nourishment, carbohydrate loading, and sports drinks. By the end of the course, students will be able to make better food choices that will guide them towards a healthier lifestyle. This is not a lab-based course.
H8763 CONTEMPORARY FASHION I
1 Credit Grades 9-12

This course is for the student who enjoys sewing and wants to develop basic sewing skills and techniques. Students will select and furnish patterns, fabrics, and supplies needed to complete projects suitable to personal needs and tastes. Some fabrics are available in class. New techniques and fabrics are presented along with craft and gift projects. This course is recommended for any student interested in developing personal skills and also for students interested in a career in textiles, fashion design, or interior design.

H8773 CONTEMPORARY FASHION II
1 Credit Grades 9-12
Prerequisite: Contemporary Fashion I

This course is for the student who enjoys sewing and wants to learn advanced sewing techniques using a variety of patterns and fabrics. Students are given an opportunity to study color, line, and design in clothing. Fashion history, personal wardrobe planning, fabric characteristics and care, and clothing alterations are examined. Individual study of fashion designers is included. This course is recommended for students interested in fashion design or fashion merchandising careers. Students provide their own patterns and materials. Some fabrics are available in class. Successful completion of CONTEMPORARY FASHION I along with teacher recommendation is recommended. The Family and Consumer Sciences Department recommends a final average of at least a “B” in the previous course to move into the next level in the CONTEMPORARY FASHION classes.

H8783 CONTEMPORARY FASHION Independent Study
1 Credit Grades 10-12

Prerequisite: Contemporary Fashion I & Contemporary Fashion II

Independent Study is designed for the exemplary contemporary fashion student who is interested in a career in clothing and textiles. Students must have proficiency in construction skills and techniques and have the ability to pursue in-depth study. Students chose to complete projects within advanced course guidelines. Creative and critical thinking, decision-making, consumerism, and time/work management are vital in this course. Students provide their own patterns and materials. Successful completion of Contemporary Fashion I & Contemporary Fashion II along with teacher recommendation is recommended. The Family and Consumer Sciences Department recommends a final average of at least a “B” in the previous course to move into the next level in the CONTEMPORARY FASHION classes.

H8801 TODAY’S HOUSING AND INTERIOR DESIGN
0.5 Credit Grades 9-12

Housing structures provide people with the basic need for shelter, but a house or a home means different things to different people. People take the idea of a home and individualize it to meet their specific needs. This course is designed to help students to identify and develop individual styles and preferences for housing and interior design. Basic topics, ideas, and content are then applied to hands-on projects. Topics will include: housing needs through the life cycle, architectural and furniture styles, principles and elements of design, presentation boards, floor plans, and furniture arrangement. This class is recommended for students interested in a career in interior design.
**H8823 THE PRESCHOOL CHILD**

1 Credit  
Grades 9-12

*Due to safety and liability issues when working with children, the discipline records of students will be reviewed prior to acceptance into this course.*

The Preschool Child offers an in-depth study of the development of children ages three to five years of age. The areas of physical, social, emotional, and intellectual development are studied. In addition, topics such as discipline, safety, child care and early childhood education are taught. Students will be required to teach one mini-lesson as well as interact with the children who report to the development laboratory 2 days per week. Special units on art, dramatic play and literacy for preschool children are incorporated as hands-on activities in this course.

**H8833 CHILD DEVELOPMENT**

1 Credit  
Grades 9-12

Would you like to be a parent, work with children, or just learn why children do the things they do? Child Development is a course designed for anyone who wants to learn about the developing child from conception through the first two years of life. You will learn about the physical, intellectual, emotional and social development of children and the parenting skills to adapt to each area. This course is beneficial to each and every student of Hempfield High School. Many students will become parents, aunts, uncles, develop a relationship with a child, have a career as a nurse, doctor, psychologist, educator, social worker, or law enforcement officer. Child Development would be suggested for students interested in The Preschool Child and the Preschool Laboratory courses.

**H8913 PRESCHOOL LABORATORY I**

1 Credit  
Grades 9-12

*Successful completion of The Preschool Child along with teacher recommendation is recommended. Due to safety and liability issues when working with children, discipline records of students are reviewed prior to acceptance into this course.*

The Family and Consumer Sciences Department recommends a final average of at least a “C” in the previous course to move onto the next level in the Child Development Laboratory classes.

Preschool Laboratory I is designed to help students better understand the preschool age child through direct interaction 3 days a week in the child development laboratory operated by the students under the supervision of the teacher. The laboratory for children 3-1/2 - 5 years of age is held from September through May throughout the school year. Theory and instruction, preparing instructional materials, discussion of individual child observations, and evaluation are a major part of this course. Each student in this class is expected to serve in the capacity of a student teacher on a weekly basis. This class is recommended for students who are interested in pursuing careers in early childhood education, elementary education, day care, child psychology, and related fields dealing with children or parenting skills.

**H8933 PRESCHOOL LABORATORY II**

1 Credit  
Grades 10-12

*Successful completion of Preschool Lab I, along with teacher recommendation is recommended. Due to safety and liability issues when working with children, discipline records of students are reviewed prior to acceptance into this course.*

The Family and Consumer Sciences Department recommends a final average of at least a “C” in the previous course to move onto the next level in the Child Development Laboratory classes.
This course is designed to help students understand the role of a teacher in the child development laboratory classroom. The laboratory class is held from September until May on three days a week. Preparing lesson plans, discussing observations, evaluating, and working on individual children’s case studies formulate the course activities. Each student in this class is expected to serve in the capacity of a student teacher on a weekly basis. This class is recommended for students who are interested in pursuing a career in early childhood education, elementary education, day care, or related fields dealing with children. High school students plan and participate in field trips that reinforce weekly themes.
CHAPTER 11

Health, Physical Education & Driver Education
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Recommended Grade</th>
<th>Semester (S) / Year (Y)</th>
<th>Everyday (E) / Alternate Days (A)</th>
<th>Units of Credit / Year</th>
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<td>Physical Education (Personal Wellness &amp; Fitness)</td>
<td>9</td>
<td>S</td>
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<td>H7511</td>
<td>Introduction to Strength Training and Conditioning*</td>
<td>10</td>
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<tr>
<td>H7601</td>
<td>Health*</td>
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<td>Driver Education – Classroom**</td>
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<td>H7301</td>
<td>Personal Fitness Design</td>
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<td>H7331</td>
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<td>H7431</td>
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<td>H7621</td>
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<td>H7341</td>
<td>Cardio-Conditioning</td>
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<td>H7521</td>
<td>Advanced Strength Training &amp; Conditioning</td>
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<td>H7531</td>
<td>Net Sports</td>
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<td>H7541</td>
<td>Advanced Team Sports</td>
<td>12</td>
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*During the sophomore year students must take H7511 and H7601 Health / Introduction to Strength Training and Conditioning.

**Driver Education is offered in an online format. There is a fee of $49.00 for this 0.25 credit course. There is no course number for this class. Behind-the-Wheel is an optional, no credit offering. It is a fee based course, scheduled with private vendors.

During the Junior year, students must select Fitness for Life, Personal Fitness Design, Military Fitness or Cardio-Conditioning. (They may elect to take more than one of these courses if they wish.) One course would meet the11th grade PE requirement, any additional courses would be electives. During the Senior year, there is not a required Physical Education course. However, students may select one (or more) of the 12th grade elective courses listed above.
**H7111 PHYSICAL EDUCATION (PERSONAL WELLNESS & FITNESS)**
0.5 Credit  Grade 9
*Required for all 9th grade students.*

Students are required to pass 2 credits of Health & Physical Education during high school. In grade 9, physical education classes provide the student with a varied program of instruction and experiences designed to teach the basics of personal wellness and fitness. A variety of team and individual activities are used to help students evaluate their own fitness levels, assess their degree of wellness, and identify activities they may wish to explore for further fitness development. The use of heart rate monitors will be employed to help the student assess their level of exercise intensity as they work to achieve improved cardiovascular fitness. The “Five Components of Health Related Fitness” are taught and activities are planned to help students learn about these important areas, while also experiencing personal growth during the required semester-long course.

**H7301 PERSONAL FITNESS DESIGN**
0.5 Credit  Grade 11
*Required for all 11th grade students, or choose either H7301 PFD, or H7341 Cardio-Conditioning*

The Personal Fitness Design course emphasizes that physical activity is an essential part of overall health throughout the lifespan. This course provides a solid foundation for learning the benefits of an active lifestyle. The students will learn concepts of cardiovascular fitness, resistance training, nutrition, and skill-related fitness. Each student will develop and implement an individual personal fitness program to improve their fitness, participate in ongoing assessments, and evaluate his/her progress.

All 11th grade students must select 7301 Personal Fitness Design, 7331 Fitness for Life, or 7341 Cardio-Conditioning. Juniors who also wish to select an additional PE course as an elective, may choose any of the three.

**H7311 FITNESS FOR LIFE**
0.5 Credit  Grade 11
*Required for all 11th grade students, or choose either H7301 PFD, or H7341 Cardio-Conditioning*

This course will involve instruction in a variety of individual and lifetime sports. This class enables students to identify activities that can be pursued later in life as a means of dealing with stress and maintaining physical fitness, and for recreation and socialization. The course typically includes participation in disc golf, aerobics, jogging/walking, indoor and outdoor volleyball, racquet sports such as badminton and tennis, and activities such as archery, golf, and mountain biking.

**H7341 CARDIO-CONDITIONING**
0.5 Credit  Grade 11 or 12
*Required for all 11th grade students, or choose either H7301 PFD, or H7331 FFL*

This course is designed for students who wish to participate in additional aerobic activities that will increase their heart rate to the desired target range. Activities and exercises will include, circuit training, games of ultimate frisbee, campus course jogging, speed walking, rope jumping, Tae Bo, bike riding, elliptical machines, stationary bike riding, stepper activities, music video participation, team cardio games, and creative exercises. Students will earn “Target Zone” minutes through the use of Polar Technology.

(This course may also serve as a 12th grade PE elective.)

**H7431 MILITARY FITNESS**
0.5 Credit  Grade 11 or 12

This course is available to juniors or seniors who anticipate applying for one of the U.S. Military Academies, or becoming a recruit for a branch of the military after high school. Preparation for the various physical fitness assessments will be a significant
portion of the course. Instruction and practice for these tests will be done in class and students will be assisted as they develop their own training program to prepare them for a future career in the military. (This course could be used in place of the other required HPE options for juniors, or as an elective for seniors.)

**H7601 HEALTH**  
0.5 Credit  
Grade 10  
*Required for all 10th grade students*

This course provides the student with an investigation of current health issues and attendant topics from the student’s personal, school, home, and community perspective. The content is based upon the PA State Standards for Public School Health Education. The course provides students with learning experiences that enable them to effectively assimilate health information and make discriminating decisions concerning their health and behavior as individuals, future parents, and community members.

This graduation requirement is taken during the sophomore year in conjunction with Introduction to Strength Training and Conditioning.

**H7621 SPORTS MEDICINE**  
0.5 Credit  
Grades 11 and 12  
*Prerequisite: H7601 Health*

Sports Medicine is an elective course which studies the prevention, diagnosis and treatment of athletic injuries sustained in sports or exercise-related activities. This course will enhance the learning through hands-on demonstrations of current prevention and treatment techniques for sport-related injuries. This course will benefit those students entering health related careers such as medicine, physical therapy, athletic training, nursing, exercise science, and physical education.

**H7611 INTRODUCTION TO STRENGTH TRAINING AND CONDITIONING**  
0.5 Credit  
Grade 10  
*Required for all 10th grade students.*

This course consists of a systematic program of conditioning that includes: aerobics, running, strength training with free weights, and strength training machines. Students who engage fully in this course will experience a vigorous program leading to an improved level of physical fitness. Topics of instruction include goal setting, weight management, cardiovascular training, flexibility, types of training programs, fitness assessment, and basic sports nutrition. (The focus in this required class is for students to develop proper technique and training habits, while experiencing a variety of strength training and conditioning methods).

**H7521 ADVANCED STRENGTH TRAINING & CONDITIONING**  
0.5 Credit  
Grade 12  
*Suggested Prerequisite: H7301 PFD*

This elective course provides opportunities for senior students to develop fitness and exercise skill levels, while enhancing their understanding in the area of exercise science. The course focus is on strength training and conditioning. Concepts of proper exercise technique, spotting, and training methods will be assessed. Students will benefit from individual, partner, and group instruction and experience various forms of progressive resistance training, aerobic and anaerobic exercise, plyometrics, and the periodization of training. This is an ideal course for the elite athlete, fitness enthusiast, or students interested in a career in exercise science, physical education and/or coaching.

**H7531 NET SPORTS**  
0.5 Credit  
Grade 12

This elective course provides an opportunity for senior students to build skill, an additional understanding of game strategies, and the rules of activities that involve
the use of a net or goal. Instruction and practice will occur in units such as volleyball, badminton, ping pong, "pickle ball", tennis, team handball, spike ball, tchouk ball, soccer, floor hockey, and other games involving the use of a net.

**H7541 ADVANCED TEAM SPORTS**

*0.5 Credit*  
*Grade 12*

This elective course provides additional opportunities for senior students to build skills and understanding in the concepts and strategies of a variety of team sports. Units typically include activities such as “razzle dazzle football,” soccer, softball, ultimate frisbee, rugby, basketball, floor hockey, European team handball, tchouk ball, spike ball, and volleyball. Students will be given the opportunity to compete in class tournaments, and strive for sportsmanship, fitness, and skill development through team play.

**DRIVER EDUCATION**

*0.25 Credit*  
*Grades 10-12*

$49 fee for this 0.25 course.

Driver Education at Hempfield is not a requirement for graduation; however, it is offered for the convenience of our students and families and for the safety of all in the community. Driver Education is offered in an online format. The course will be offered both semesters during the school year and will also be offered in the summer. Automobile insurance discounts are usually provided upon the successful completion of the Driver Education and Behind-the-Wheel classes.

This is an online course accessible through the district website and provided by Virtual Drive of America. Students complete the ten (10) modules (approximately 32 hours of instruction) on their own time – at home, in the library, in one of the high school computer centers, or any other location where students have Internet access.

A written assessment is required at the conclusion of the course that will be administered in school during the final exam weeks. Students should pace themselves and work on the module throughout the semester. Students will be awarded credit upon the successful completion of the on-line requirements and passing the final exam. Any student interested in taking online Driver Education should visit the [Hempfield website](#) for further information. Go to the high school Home link followed by the Student Programs and Organizations link.

**NOTE: Behind-the-Wheel (0 Credit)**

There is a fee determined by the vendor for this 0 credit offering. Students may also take behind-the-wheel training after they have obtained a Pennsylvania learner’s permit. The behind-the-wheel course is voluntary and is contracted by a local vendor(s) as a fee-for-service program. Behind-the-Wheel training provides six (6) hours of driving instruction and is designed to teach safe and efficient driving, through knowledge, habits, attitudes and respect for the law.
CHAPTER 12
RESEARCH
## RESEARCH

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Recommended Grade</th>
<th>Semester (S) / Year (Y)</th>
<th>Everyday (E) / Alternate Days (A)</th>
<th>Units of Credit/Year</th>
<th>Weighted Course Value</th>
</tr>
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<tbody>
<tr>
<td>H9711</td>
<td>Research Pathways I</td>
<td>10-12</td>
<td>S</td>
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<tr>
<td>H9721</td>
<td>Research Pathways II</td>
<td>10-12</td>
<td>S</td>
<td>A</td>
<td>0.5</td>
<td></td>
</tr>
</tbody>
</table>

### H9711 RESEARCH PATHWAYS I

0.5 Credit Grades 10-12
This online elective course provides students with the resources and skills they need to be able to improve their research, writing and presentation skills. Students will be researching cross-curricular issues that interest the students and explore the complexities of academic and real-world topics and issues. Using an inquiry framework, students will learn to synthesize information from multiple sources and viewpoints, develop their own perspectives in research-based written essays, and design and deliver oral and visual multimedia presentations. The course will have a culminating, group project that is developed throughout the course. The course will require group meetings with other students as well as individual conferencing with the instructor. The meetings will be flexible to meet the students' schedules.

### H9721 RESEARCH PATHWAYS II

0.5 Credit Grades 10-12

**Prerequisite: Research Pathways I**

This online elective course provides students with more advanced research skills in order to plan and conduct an individual study or investigation of a topic that has real-world impact and interests students. The course will have a culminating, individual project that is developed throughout the course. Students will reflect on their skill development, document their processes, and curate their research and work through a portfolio. A paper and oral defense presentation are required. Students will need to schedule a date and time for their presentation as well as recruit a review team of teachers or other experts in the field of their topic. The course will require individual conferencing with the instructor. The meetings will be flexible to meet the students’ schedules.
CHAPTER 13
Mathematics
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Recommended Grade</th>
<th>Semester (S) / Year (Y)</th>
<th>Everyday (E) / Alternate Days (A)</th>
<th>Units of Credit/Year</th>
<th>Weighted Course Value</th>
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<tbody>
<tr>
<td>H3053</td>
<td>Foundations of Pre-Algebra</td>
<td>9</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
<td>Value I</td>
</tr>
<tr>
<td>H3163A</td>
<td>Algebra 1A Applied CP</td>
<td>9</td>
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<tr>
<td>H3163B</td>
<td>Algebra 1B Applied CP</td>
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<tr>
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<tr>
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<tr>
<td>H3263</td>
<td>Algebra 2 Applied CP</td>
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<td>H3283</td>
<td>Algebra 2 Honors</td>
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<td>Geometry Applied CP</td>
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<td>H3373</td>
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<tr>
<td>H3323</td>
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<tr>
<td>H3463</td>
<td>Stats, Logic and Algorithms</td>
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<tr>
<td>H3473A</td>
<td>Algebra 3/Trig</td>
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<td>Value II</td>
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<td>H3473</td>
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<td>Math Analysis Honors</td>
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<tr>
<td>H3593A</td>
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<tr>
<td>H3593B</td>
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<tr>
<td>H3153A</td>
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<tr>
<td>H3353</td>
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<tr>
<td>H3693</td>
<td>Statistics AP</td>
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<td>Value IV</td>
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<td>H3733</td>
<td>Introduction to Programming</td>
<td>9-12</td>
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<tr>
<td>H3893</td>
<td>Computer Science Principles AP</td>
<td>9-12</td>
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<td>H3943A</td>
<td>Fundamentals of Math A</td>
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<td>H3943B</td>
<td>Fundamentals of Math B</td>
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## HONORS

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<tr>
<th>Algebra 2 Honors</th>
<th>Geometry Honors</th>
<th>Math Analysis Honors</th>
<th>Calculus AB AP H3593A OR Calculus AB AP H3593A and Calculus BC AP H3593B</th>
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<tr>
<td>H3283</td>
<td>H3383</td>
<td>H3483</td>
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<tr>
<td>(May be scheduled in S1 or S2.)</td>
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## COLLEGE PREP - ADVANCED

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<th>Algebra 1B Adv. CP H3123B</th>
<th>Algebra 2 Adv. CP H3223</th>
<th>Geometry Adv. CP H3323</th>
<th>Pre-Calculus CP H3473</th>
<th>Calculus CP H3573</th>
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## COLLEGE PREP

<table>
<thead>
<tr>
<th>Algebra 1A CP 3173A</th>
<th>Algebra 1B CP 3173B</th>
<th>Algebra 2 CP 3273</th>
<th>Geometry CP 3373</th>
<th>Algebra 3/Trig CP 3473A</th>
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<td></td>
<td>Pre-Calculus CP 3473</td>
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<td>Calculus CP 3573</td>
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## COLLEGE PREP - APPLIED

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<tr>
<th>Algebra 1A Applied CP 3163A</th>
<th>Algebra 1B Applied CP 3163B</th>
<th>Algebra 2 Applied CP 3263</th>
<th>Geometry Applied CP 3363 and/or Stats, Logic &amp; Algorithms CP 3463</th>
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## FOUNDATIONS

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<tr>
<th>Foundations of Pre-Algebra 3053</th>
<th>Foundations of Algebra 1A 3153A</th>
<th>Foundations of Algebra 1B 3153B</th>
<th>Foundations of Geometry 3353</th>
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</thead>
</table>

## Fundamentals

Course sequence and placement in fundamentals of Mathematics courses is based on the recommendation of the secondary Special Education Coordinator and/or the Mathematics Department Supervisor.

## MATH ELECTIVES

<table>
<thead>
<tr>
<th>H3693</th>
<th>Statistics AP</th>
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<tbody>
<tr>
<td>H3733</td>
<td>Introduction to Programming</td>
</tr>
<tr>
<td>H3893</td>
<td>Computer Science Principles AP</td>
</tr>
<tr>
<td>H3793</td>
<td>Computer Science AP</td>
</tr>
<tr>
<td>H1911</td>
<td>Test Prep: SAT/ACT</td>
</tr>
</tbody>
</table>
Students enrolled in Algebra 1A CP or Algebra 1A Applied CP are recommended to enroll in Algebra 1B CP or Algebra 1B Applied CP respectively in the second semester of their freshman year.

Students may only enroll in one honors level math course for 9th grade. They may enroll in multiple honors/AP level Mathematics courses in grades 10-12.

Student enrolled in Fundamentals of Pre-Algebra are required to enroll in Fundamentals of Algebra 1A in the second semester of their freshman year.

Introduction to Programming 3733 does not satisfy graduation requirements in Mathematics or Science. Computer Science Principles AP 3893 can count as one credit for either Mathematics or Science.

In order to fulfill Mathematics Graduation Requirements, students must complete Any four (4) from this list: Pre-Algebra, Algebra 1A, Algebra 1B, Algebra 2, Geometry, Statistics/Logic/Algorithms, Algebra 3/Trig, Pre-Calculus, Math Analysis, Calculus, Statistics AP, Computer Science Principles AP, or Computer Science AP. Additionally, students in the class of 2020 and beyond must achieve a score of proficient or advanced on the Algebra Keystone Exam. Students not demonstrating proficiency in any of the above tested areas must participate in the state's Keystone re-test. Prior to the re-test, remediation and tutoring programs will be offered to students in their deficient area(s). As of the printing of this publication, the state legislature and department of education are still determining the status and implementation process for the Keystone Project Based Assessments (PBA) for students who are not proficient on the Keystone retest. Hempfield High School will follow the PBA regulations once they are approved.

Introduction to Programming 3733 does not satisfy graduation requirements in Mathematics or Science. Computer Science Principles AP 3893 can count as one credit for either Mathematics or Science.

CTC students, please visit the CTC section to view the Math requirements.
H3053 FOUNDATIONS OF PRE-ALGEBRA
1 Credit                     Grade 9

Students enrolled in Foundations of Pre-Algebra will study the following topics:

• Variable expressions
• Integers
• Rational numbers
• Solving equations and inequalities
• Factors
• Exponents
• Ratios and proportions
• Probability
• Percents
• Graphing linear functions

COLLEGE PREP MATH COURSE OPTIONS

H4163A ALGEBRA 1A APPLIED CP
1 Credit                     Grade 9
Prerequisite: Pre-Algebra

This course is part 1 of a 2-course sequence designed to give students a foundational understanding of Algebra 1 in preparation for career and/or postsecondary study in applied fields. The main goal of Algebra 1 is to help students use algebraic models to solve problems. Topic areas covered in this course include algebraic expressions, systems of linear equations and inequalities, linear functions and data analysis.

Students enrolled in this course will also be enrolled in Algebra 1B Applied CP in the second semester of their freshman year in order to prepare for success on the Keystone Algebra Exam.

H3163B ALGEBRA 1B APPLIED CP
1 Credit                     Grade 9
Prerequisite: Algebra 1A CP H3163A

This course is part 2 of a 2-course sequence designed to give students a foundational understanding of Algebra 1 in preparation for career and/or postsecondary study in applied fields. The main goal of Algebra 1 is to help students use algebraic models to solve problems. Topic areas covered in this course include algebraic expressions, systems of linear equations and inequalities, linear functions and data analysis.

Students will take the Keystone Algebra Exam at the end of this course.

H3173A ALGEBRA 1A CP
1 Credit                     Grade 9
Prerequisite: Pre-Algebra

This course is part 1 of a 2-course sequence designed to give students a conceptual understanding of Algebra 1 in preparation for postsecondary college or university study. The main goal of Algebra 1 is to help students create and use algebraic models to solve problems. Topic areas covered in this course include multiple representations of algebraic concepts, algebraic and graphical approaches to equations, inequalities and systems, data analysis and probability.

Students enrolled in this course are encouraged to also enroll in Algebra 1B CP in the second semester of their freshman year in order to prepare for success on the Keystone Algebra Exam.
**H3173B ALGEBRA 1B CP**

1 Credit          Grade 9  
**Prerequisite:** Algebra 1A CP H3173A

This course is part 2 of a 2-course sequence designed to give students a conceptual understanding of Algebra 1 in preparation for postsecondary college or university study. The main goal of Algebra 1 is to help students create and use algebraic models to solve problems. Topic areas covered in this course include multiple representations of algebraic concepts, as well as algebraic and graphical approaches to nonlinear function families.

Students enrolled in this course will take the Keystone Algebra Exam at the end of the course.

**H3123B ALGEBRA 1B ADVANCED CP**

1 Credit          Grade 9  
**Prerequisite:** Algebra 1A (in 8th Grade) or Algebra 1B H3173B (in 9th Grade).

This course is part 2 of an accelerated 2-course sequence designed to give students a rich, conceptual framework for extending algebraic thinking in novel situations. The advanced college prep course sequence prepares students for postsecondary study in math-intensive fields such as engineering, science and mathematics at university. The main goal of Algebra 1 is to help students create and use algebraic models to solve problems. Topic areas covered in this course include multiple representations of algebraic concepts, as well as algebraic and graphical approaches to nonlinear function families.

Students enrolled in this course will take the Keystone Algebra Exam at the end of the course.

**RECOMMENDED MATHEMATICS COURSE SEQUENCES (GRADES 9-12)**

**Fundamentals**

Course sequence and placement in fundamentals of math courses is based on the recommendation of the secondary Special Education Coordinator and/or the Mathematics Department Supervisor.

**H3263 ALGEBRA 2 Applied CP**

1 Credit          Grades 10  
**Prerequisite:** 3163B Algebra 1B CP

Students enrolled in 3263 Algebra 2 will study the following topics with emphasis on practice and review:

- Families of functions
- Applications of functions
- Systems of equations and inequalities
- Polynomials
- Advanced Functions

**H3273 ALGEBRA 2 CP**

1 Credit          Grades 10  
**Prerequisite:** H3173B Algebra 1B CP

Students enrolled in Algebra 2 will study the following topics:

- Advanced linear and nonlinear functions
- Quadratic functions and applications
- Analysis of functions
- Advanced systems of equations and inequalities
- Applications of matrices
- Polynomials and polynomial functions
- Rational expressions and functions
- Complex number system
H3363 GEOMETRY Applied CP
1 Credit  Grade 11
Prerequisite: 3263 Algebra 2 CP

Students enrolled in Geometry will study the following topics with an emphasis on practice, review and application:

• Lines in the plane
• Angles and triangles
• Congruence
• Parallel and perpendicular lines
• Polygons
• Similarity
• Plane and coordinate geometry
• Circles and sectors
• Pythagorean theorem
• Geometric solids

H3463 STATISTICS, LOGIC AND ALGORITHMS
1.0 Credit  Grades 11-12
Prerequisite: H3263 Algebra 2

This course will introduce and develop fundamental statistical concepts, principles, and techniques and basic concepts of program design, problem-solving and coding.

H3373 GEOMETRY CP
1 Credit  Grade 10 or 11
Prerequisite: H3273 Algebra 2 CP

Students enrolled in Geometry will study the following topics:

• Reasoning and proof
• Lines in the plane
• Angles and triangles
• Congruence
• Parallel and perpendicular lines
• Polygons
• Similarity
• Plane and coordinate geometry
• Circles and sectors
• Pythagorean theorem
• Geometric solids

H3473A ALGEBRA 3/TRIG CP
1 Credit  Grades 12
Prerequisite: H3273 Algebra 2 CP

Students enrolled in Algebra 3/Trig will study the following topics with an emphasis on practice and review:

• Polynomial functions
• Rational exponents and radical functions
• Rational functions
• Exponential and logarithmic functions
• Periodic functions and trigonometry

H3473 PRE-CALCULUS CP
1 Credit  Grades 11-12
Prerequisites: H3373 Geometry CP and >85% in H3273 Algebra 2, or H3473A Algebra 3/Trig CP

Students enrolled in Pre-calculus will study the following topics:

• Analysis of functions
• Polynomial and rational functions
• Exponential and logarithmic functions
• Circular and trigonometric functions
• Complex number system
• Plane analytic geometry
- Trigonometric identities and equations

**H3573 CALCULUS CP**

1 Credit  Grades 12  
**Prerequisite:** H3473 Pre-calculus CP

This course will introduce and develop fundamental calculus principles and techniques with an emphasis on the practical value of calculus. Students will encounter genuine, real-world problems in business, economics, life sciences, and a wide range of other fields. This course will not prepare students for the AP exam, but will give them a clear understanding of the ideas of calculus as a solid foundation for subsequent courses. Students enrolled in this course will study the following topics:

- Limits and derivatives
- Methods of differentiation and their applications
- Definite and indefinite integration
- Methods of integration and their application
- Differential Equations

**ADVANCED & HONORS COURSE OPTIONS**

**H3283 ALGEBRA 2 HONORS**

1 Credit  Grades 9-10  
**Prerequisite:** H3123B Algebra 1B Advanced CP

Students enrolled in Algebra 2 Honors will study the following topics with an emphasis on abstract reasoning and application of concepts in novel situations:

- Advanced linear and nonlinear functions
- Quadratic functions and applications
- Analysis of functions
- Advanced systems of equations and inequalities
- Polynomials and polynomial functions
- Rational expressions and functions
- Complex number system
- Exponential and logarithmic functions
- Conic sections
- Sequences and series

**H3223 ALGEBRA 2 ADVANCED CP**

1 Credit  Grades 9-10  
**Prerequisite:** 3123B Algebra 1B Advanced CP

Students enrolled in Advanced Algebra 2 will study the following topics with an emphasis on practice and basic application of concepts:

- Advanced linear and nonlinear functions
- Quadratic functions and applications
- Analysis of functions
- Advanced systems of equations and inequalities
- Polynomials and polynomial functions
- Rational expressions and functions
- Complex number system
- Exponential and logarithmic functions
- Right Triangle Trigonometry

**H3383 GEOMETRY HONORS**

1 Credit  Grades 10  
**Prerequisite:** H3283 Algebra 2 Honors

Students enrolled in Geometry Honors will study the following topics with an emphasis on proof, abstract reasoning and application of concepts in novel situations:

- Exact reasoning
- Lines in the plane
- Angles and triangles
- Congruence
- Proof
- Parallel and perpendicular lines
Polygons
• Similarity
• Plane and coordinate geometry
• Circles and sectors
• Pythagorean theorem
• Geometric solids

H3323 GEOMETRY ADVANCED CP
1 Credit Grades 10 or 11
Prerequisite: H3223 Algebra 2 Advanced CP

Students enrolled in Advanced Geometry will study the following topics with an emphasis on proof, practice and basic application of concepts:

• Exact reasoning
• Lines in the plane
• Angles and triangles
• Congruence
• Proof
• Parallel and perpendicular lines
• Polygons
• Similarity
• Plane and coordinate geometry
• Circles and sectors
• Pythagorean theorem
• Geometric solids

H3593A CALCULUS AB AP
1 Credit Grades 12
Prerequisite: H3483 Math Analysis

Calculus AB AP is equivalent to a freshmen college Calculus I course. Upon successful completion of the course, the student will be prepared for the AB level Advanced Placement Exam. It is recommended that students who enroll in AP Calculus have demonstrated a mastery of algebra, geometry, analytic geometry, and trigonometry. Students enrolled in this course will study the following topics:

• Limits and their application to derivatives
• Methods of differentiation and their applications
• Definite and indefinite integration
• Methods of integration and their application

H3593B CALCULUS BC AP
1 Credit Grades 12
Prerequisite: H3593A Calculus AB AP

Upon completion of this course, the student will be prepared for the BC level Advance Placement Calculus Exam. Students will be expected to have a mastery of limits, derivatives and their applications, integral calculus, and differentiable equations. Students enrolled in the course will study the following topics:

• The Logistic Equation
• Calculus with Parametric Equations
• Areas and Lengths in Polar Coordinates
• Techniques of Integration

H3483 MATH ANALYSIS HONORS
1 Credit Grades 11
Prerequisite: H3383 Geometry Honors

Students enrolled in Math Analysis Honors will study the following topics:

• Analysis of functions and limits
• Polynomial and rational functions

• Exponential and logarithmic functions
• Circular and trigonometric functions
• Trigonometric identities and equations
• Complex number system
• Plane analytic geometry
• Sequences and series
• Improper Integrals
• Infinite Sequences and Series
• Maclaurin and Taylor Polynomials

FOUNDATIONS OF MATH COURSE OPTIONS

H3153A FOUNDATIONS OF ALGEBRA 1A
1 Credit Grade 10
Prerequisite: H3053 Foundations of Pre-Algebra

Students enrolled in Foundations of Algebra 1A will study the following topics:

• Operations with real numbers
• Writing and solving linear equations
• Graphing linear equations
• Solving equations and inequalities
• Functions

H3153B FOUNDATIONS OF ALGEBRA 1B
1 Credit Grade 10
Prerequisite: H3153A Foundations of Algebra 1A

Students enrolled in Foundations of Algebra 1B will study the following topics:

• Linear functions
• Systems of linear equations and inequalities
• Scatter plots
• Factoring polynomials
• Simplifying rational expressions
• Data analysis and probability

Students will take the Keystone Algebra Exam at the end of this course.

H3353 FOUNDATIONS OF GEOMETRY
1 Credit Grade 11
Prerequisite: H3153B Foundations of Algebra 1B

Students enrolled in Foundations of Geometry will study the following topics:

• Patterns
• Segments
• Angles and triangles
• Parallel and perpendicular lines
• Circles

FUNDAMENTALS MATH COURSES

H3943A FUNDAMENTALS OF MATH A
1 Credit Grades 9-12
Requires: Recommendation of the secondary special education coordinator and/or math department supervisor.

Students enrolled in Fundamentals of Math A will study the following topics:

• Area and perimeter of rectangles and triangles
• Equivalent fractions
• Beginning Algebra with 1 variable in equation
• 2 step equations
• Percents
• Learning how to solve word problems

H3943B FUNDAMENTALS OF MATH B
1 Credit Grades 9-12
Prerequisite: H3943A Fundamentals of Math A

Requires: Recommendation of the secondary special education coordinator and/or math department supervisor.
Students enrolled in Fundamentals of Math B will study the following topics:

• Basic functions
• Coordinate plane
• Geometry: Circle (radius, diameter, and area), triangles
• Exponents: negative, adding, multiplying, dividing
• Word problems

H3943C FUNDAMENTALS OF MATH C
1 Credit Grades 10-12
Prerequisite: H3943B Fundamentals of Math B

Requires: Recommendation of the secondary special education coordinator and/or math department supervisor.

Students enrolled in Fundamentals of Math C will study the following topics:

• Slope (positive and negative)
• Functions
• Square roots
• Simultaneous equations
• Pythagoras Theory
• Problem solving

H3943D FUNDAMENTALS OF MATH D
1 Credit Grades 10-12
Prerequisite: H3943C Fundamentals of Math C

Requires: Recommendation of the secondary special education coordinator and/or math department supervisor.

Students enrolled in Fundamentals of Math D will study the following topics:

• Proportion of similar figures
• Graphing: rate, equations
• Percent increase or decrease
• Scientific Notation: ranking order, multiplying
• Geometry: surface area
• Problem solving

H3043 FUNDAMENTALS OF PRE-ALGEBRA
1 Credit Grades 9-12
Required: Recommendation of the Secondary Special Education Coordinator and/or Mathematics Department Supervisor.

Students enrolled in Fundamentals of Pre-Algebra will study the following topics:

• Variable expressions
• Integers
• Rational numbers
• Solving equations and inequalities
• Factors
• Exponents
• Ratios and proportions
• Probability
• Percents
• Graphing linear functions

H3143A FUNDAMENTALS OF ALGEBRA 1A
1 Credit Grades 9-12
Prerequisite: H3043 Fundamentals of Pre-Algebra

Required: Recommendation of the Secondary Special Education Coordinator and/or Mathematics Department Supervisor.

Students enrolled in Fundamentals of Algebra 1A will study the following topics:

• Properties of real numbers
• Writing and solving linear equations
- Graphing linear equations
- Solving equations and inequalities
- Functions

**ELECTIVE MATH COURSE OPTIONS**

**H3693 STATISTICS AP**
1 Credit  Grades 10-12
**Prerequisite:** H3283 Algebra 2 Honors or a grade of 80% or higher in H3473 Pre-calculus CP, or a grade of 80% or higher in H3223 Algebra 2 Advanced CP

Statistics AP is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. Upon successful completion of the course, the student will be prepared for the Advanced Placement Statistics Exam. Students taking this course are encouraged to take the AP exam, but it is not required. The purpose of the course is to introduce students to major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students enrolled in this course will be exposed to four broad conceptual themes:

- Exploring Data
- Planning a Study
- Producing Models Using Probability and Simulation
- Statistical Inference

**H3733 INTRODUCTION TO PROGRAMMING**
1 Credit  Grades 9-12
**Prerequisite:** Algebra 1B

This course does not fulfill a mathematics credit for graduation requirements.

This is a course for students who wish to learn the basics of computer programming; no prior programming experience is required. Introduction to Programming will introduce basic programming terminology, concepts, and best practices in a 3D-visual environment. Students will learn to design programs using such concepts as conditional statements, loops, variables, functions, and arrays. Students will be given a brief introduction to object-oriented and event-driven programming concepts. The processes of creating, editing, and testing a computer program will form the core of study. Once the basics are learned, students will begin to learn the Java programming language; Areas of study in Java will include:

- Introduction to Objects and Classes
- Fundamental Data Types
- Decisions
- Iteration
- Methods
- Arrays
- Graphical User Interfaces

Students who successfully complete Introduction to Programming will be prepared to take on the challenges offered in Hempfield’s AP Computer Science course.

**H3893 COMPUTER SCIENCE PRINCIPLES AP**
1 Credit  Grades 9-12
**Prerequisite:** Algebra 1B Advanced CP

This course can count as a credit toward graduation for either Mathematics or Science.

This course is equivalent to an entry level college computer science principles course. It is designed to cover a broad range of foundational topics and prepare the student to take the Advanced Placement Computer Science Principles Exam. Students will further their skills in the foundations of modern computing. Topics of study include:

- Programming
- Algorithms
- The Internet
- Algorithms
- Digital Information, Privacy, and Security
- Social Impact of Computing

**H3793 COMPUTER SCIENCE AP**
1 Credit  Grades 10-12

*Prerequisite:* [H3893 Computer Science Principles AP](#) or *Recommendation of the Mathematics Department Supervisor.*

This course can count as a credit toward graduation for either Mathematics or Science.

This course is equivalent to a freshman college computer science course. It is designed to prepare the student to take the Advanced Placement Computer Science Exam. Students will further develop their skills in object-oriented programming with the JAVA programming language. Topics of study include:

- One and two dimensional arrays
- Array Lists
- Recursion
- Searching and Sorting Algorithms
- Designing, writing, modifying, testing and debugging computer-based solutions
- Exception Handling
- Interfaces and Polymorphism
- Inheritance
- Grid World Case Study

**H1911 TEST PREPARATION: SAT/ACT**
0.5 Credit  Grades 10-12

*Prerequisites:* [Algebra 2 CP](#)

This elective course is intended to provide additional instruction and practice with test-taking skills. The course is designed to meet the needs of students who desire extra practice and instruction in preparation for the PSATs, SATs, and ACTs. The focus of the course is on verbal, math, and writing skills.

*This course does not fulfill an English or a Math credit for graduation requirements.*
CHAPTER 14

Music
## MUSIC COURSE OFFERINGS - ELECTIVES

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Recommended Grade</th>
<th>Semester (S) / Year (Y)</th>
<th>Everyday (E) / Alternate Days (A)</th>
<th>Units of Credit/Year</th>
<th>Weighted Course Value</th>
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<tbody>
<tr>
<td>H0571</td>
<td>Music Production</td>
<td>9-12</td>
<td>S</td>
<td>A</td>
<td>0.5</td>
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<tr>
<td>H0631</td>
<td>Pop, Rock, &amp; Jazz</td>
<td>9-12</td>
<td>S</td>
<td>A</td>
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<td>H0641</td>
<td>Beginning Piano</td>
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<td>H0661</td>
<td>Intermediate Piano</td>
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<td>H0671</td>
<td>Intermediate Guitar</td>
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<td>H0551</td>
<td>Introduction to Music Theory</td>
<td>10-12</td>
<td>S</td>
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<td>H0561</td>
<td>Advanced Music Theory - AP</td>
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<td>S</td>
<td>E</td>
<td>1.0</td>
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## MUSIC COURSE OFFERINGS - PERFORMANCE ENSEMBLES

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<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Recommended Grade</th>
<th>Semester (S) / Year (Y)</th>
<th>Everyday (E) / Alternate Days (A)</th>
<th>Units of Credit/Year</th>
<th>Weighted Course Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>*H0703</td>
<td>Concert Choir</td>
<td>9</td>
<td>Y</td>
<td>A</td>
<td>1.0</td>
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<tr>
<td>*H0763</td>
<td>Hempfield Singers</td>
<td>10-12</td>
<td>Y</td>
<td>A</td>
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<td>*H0773</td>
<td>Bel Canto Singers</td>
<td>10-12</td>
<td>Y</td>
<td>A</td>
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<td>*H0823</td>
<td>Concert Band</td>
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<td>Y</td>
<td>A</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>*H0833</td>
<td>Symphonic Band</td>
<td>10-12</td>
<td>Y</td>
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<td>*H0923</td>
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<tr>
<td>*H0933</td>
<td>Symphony Strings</td>
<td>10-12</td>
<td>Y</td>
<td>A</td>
<td>1.0</td>
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</tr>
</tbody>
</table>

*Students who elect to participate in all performance ensembles (bands, orchestras, and choirs) must either be recommended by their middle school director(s) or successfully perform a pre-assessment with the appropriate high school director(s).

**Students enrolled in HHS Performance Ensembles are also offered co-curricular and extra-curricular extensions including: Chamber Singers, Marching Band, Jazz Bands, HHS Musical, PMEA and LLMEA Honor Ensembles, etc.

***Participation in vocal and instrumental ensembles is encouraged. Courses are scheduled to usually allow for simultaneously enrollment in both vocal and instrumental ensembles.
H0571 MUSIC PRODUCTION
0.5 Credit Grades 9-12
Prerequisite: Students should have a basic working knowledge of musical timbres, music notation, and basic computer and piano keyboard skills. The class is appropriate for both students with and without backgrounds in music performance.

The purpose of this course is to foster students’ knowledge of the elements and processes of a Digital Audio Workstation and to develop a fundamental understanding of how those elements and processes function within the context of music production. Content surveyed in this course includes audio recording, audio editing, MIDI sequencing, orchestra/arranging, film scoring, and the basics of sound reinforcement.

H0631 POP, ROCK & JAZZ
0.5 Credit Grades 9-12

This course is recommended for students who enjoy listening and learning about popular musical styles and their relationship to contemporary culture. Students will learn about significant personalities associated with the development of each style and listen to large numbers of representative recordings. Topics include: Minstrel Shows, Ragtime, Blues, Dixieland jazz, swing, Be-Bep, Broadway, Country-Western, Rhythm and Blues, Gospel, Soul Rock-and-Roll, Commercial Pop, Rock, Disco, Alterative, Rap, Heavy Metal, MTV, and current trends in commercial music.

H0641 BEGINNING PIANO
0.5 Credit Grades 9-12

This class provides students with the opportunity to learn musical skills and repertoire through piano performance. The course is offered in a group setting and students are encouraged to advance at an individualized pace. Students are expected to learn to read and perform music at a reasonable, developmentally appropriate rate. Students are expected to purchase their instructional method book and are expected to practice outside of class.

H0651 BEGINNING GUITAR
0.5 Credit Grades 9-12

This class provides students with the opportunity to learn musical skills and repertoire through guitar performance. Techniques in classical and fingerstyle playing will be introduced as well as how to play chords and rhythm guitar riffs. Students will learn to read chord charts, standard musical notation, tab, and “translating” between standard notation and tab. Each student will learn music to play in a three-part guitar ensemble culminating in a recital for a small audience at the end of each quarter. Students also learn a classical guitar solo that suits their playing and music reading ability at the end of each the last grading cycle of the course. Classical guitars with nylon strings are provided for use in the classroom. Students are encouraged but not required to buy a classical guitar for home practice (see teacher for recommended models).
H0671 INTERMEDIATE GUITAR
0.5 Credit Grades 9-12
Prerequisite: Students must satisfactorily complete 0651 Beginning Guitar or receive a recommendation from a music department coordinator based on significant expertise from private study and/or an audition.

This class provides students with the opportunity to continue and expand their musical skill development and repertoire learned in Beginning Guitar. Advanced techniques in classical and fingerstyle playing will be explored as well more complicated chords, progressions, and rhythm guitar riffs. Students are expected to learn to read and perform music at a more advanced rate. Students also learn a classical guitar solo that suits their playing and music reading ability at the end of each the last grading cycle of the course. Classical guitars with nylon strings are provided for use in the classroom. Students are encouraged but not required to buy a classical guitar for home practice (see teacher for recommended models).

H0551 INTRODUCTION TO MUSIC THEORY
0.5 Credit Grades 10-12
Prerequisite: This class is designed for all students currently enrolled in Music Department performing ensembles, students who study music through private lessons, and/or students who want to learn more about the structure of music. Students without significant music backgrounds are encouraged to enroll, but should be aware that they will be required to read, sing, chant, and notate musical examples.

This class is a basic, introductory study of the structural elements of music. Topics include: the history and development of musical symbols; Acoustics – the science of sound production, tuning, and perception; Audiation - aural recognition and classification of tonal and rhythm patterns; Solfegegio, sight-singing, and music dictation; Music Notation – staves, clefs, meters, keys, scales, intervals, chords; Music Composition – patterns used to create examples of Western Music; Computer Applications of music notation and sequencing; and Form and Analysis – the study of existing compositions to recognize tendencies and artistic elements of composition.

H0561 ADVANCED MUSIC THEORY - AP
1.0 Credit Grades 10-12

This AP-level class is designed as an accelerated approach toward content and skills presented in Introduction to Music Theory, plus course content for the advanced study of the structural elements and compositional procedures in music. Students who successfully complete this course will be prepared to take the annual Advanced Placement Music Theory Exam. Topics include: Advanced Musical Composition and Analysis using Counterpoint, Diatonic and Chromatic Harmony, Transposition, Modulation, periodic phrase structure, Augmented and Neapolitan chords, simple binary and ternary forms, imitative polyphony, and rudimentary orchestration techniques.

H0703 CONCERT CHOIR
1 Credit (Full Year) Grade 9 (Alternative scheduling option for Grades 10-12)
Prerequisite: Although no formal audition is required for enrollment in Concert Choir, students must either be recommended by their middle school director or demonstrate the ability to sing in tune and in tempo through an informal vocal pre-assessment for the director.

This choral ensemble, primarily for students new to HHS choir (typically 9th grade) and less experienced students with mixed voices, rehearses and performs appropriate music for several concerts. Students are required to perform in all concerts, which provide the basis for summative assessments during each grading period. The director encourages select members of the choir to audition for County and District Chorus Festivals. All members are eligible to audition for the
annual Spring Musical. Topics include: (a) basic to intermediate vocal technique, including range extension, resonance, diction, and breathing support; (b) various styles of multi-cultural repertoire from all eras of music history; (c) basic to intermediate sight-singing skills using solfeggio; and (d) basic to intermediate levels of musicianship and emotional expression.

*Participation in vocal and instrumental ensembles is encouraged. Courses are scheduled to usually allow for simultaneously enrollment in both vocal and instrumental ensembles.

**H0763 HEMPFIELD SINGERS**

1 Credit (Full Year) Grades 10-12

**Prerequisite:** Students should have previous choral experience and must perform a successful audition for the director.

This select choral ensemble for students with mixed voices rehearses and performs a variety of challenging music for several concerts. This choir also regularly performs concerts in local venues and for civic and social organizations. Students are required to perform in all concerts, which provide the basis for summative assessments during each grading period. The director encourages select members of the choir to audition for County and District Chorus Festivals. All members are eligible to audition for the annual Spring Musical. Topics include: (a) advanced vocal technique, including range extension, resonance, diction, style distinction, linguistics, and breath support; (b) various styles of multi-cultural repertoire from all eras of music history; (c) advanced sight-singing skills using solfeggio; and (d) advanced levels of musicianship.

*Participation in vocal and instrumental ensembles is encouraged. Courses are scheduled to usually allow for simultaneously enrollment in both vocal and instrumental ensembles.

**H0773 BEL CANTO SINGERS**

1 Credit (Full Year) Grades 10-12

**Prerequisite:** Students must have previous choral experience and must perform a successful audition for the director.

This select choral ensemble for students with treble voices rehearses and performs a variety of challenging music for several concerts. This choir also regularly performs concerts in local venues and for civic and social organizations. Students are required to perform in all concerts, which provide the basis for summative assessments during each grading period. The director encourages select members of the choir to audition for County and District Chorus Festivals. All members are eligible to audition for the annual Spring Musical. Topics include: (a) advanced vocal technique, including range extension, resonance, diction, style distinction, linguistics, and breath support; (b) various styles of multi-cultural repertoire from all eras of music history; (c) advanced sight-singing skills using solfeggio; and (d) advanced levels of musicianship and emotional expression.

*Participation in vocal and instrumental ensembles is encouraged. Courses are scheduled to usually allow for simultaneously enrollment in both vocal and instrumental ensembles.

**H0823 CONCERT BAND**

1 Credit (Full Year) Grade 9 (Alternative scheduling option for Grades 10-12)

**Prerequisite:** Students must have previous band experience and must either be recommended by their middle school director or complete a successful pre-assessment for the director.

This ensemble, primarily for instrumentalists new to HHS (typically 9th grade) and intermediate-level students who play band instruments, rehearses and performs separately from and together with the Symphonic Band at several concerts. Students are required to perform in all concerts, which provide the
basis for summative assessments during each grading period. Topics include: intermediate instrumental techniques, concentrating on repertoire, tone quality, tuning, blend, balance, rhythmic precision, articulation, emotional expression, interpretation, and musicality. In order to further develop these skills on an individual basis, students are strongly encouraged to study with a private teacher outside of the school day. The director encourages select members of the band to audition for County and District Band Festivals.

*Participation in vocal and instrumental ensembles is encouraged. Courses are scheduled to usually allow for simultaneously enrollment in both vocal and instrumental ensembles.

**H0833 SYMPHONIC BAND**

1 Credit (Full Year) Grades 10-12

**Prerequisite:** Students must have previous band experience and must perform a successful audition for the director.

This ensemble for students who play woodwind, brass, and percussion instruments. Symphonic Band rehearses and performs for several concerts. Students are required to perform in all concerts, which provide the basis for summative assessments during each grading period. Topics include: intermediate to advanced instrumental techniques, concentrating on repertoire, qualities of tone, tuning, blend, balance, rhythmic precision, articulation, emotional expression, interpretation, and musicality. In order to further develop these skills on an individual basis, students are strongly encouraged to study with a private teacher outside of the school day. The director encourages select members of the band to audition for the District Band Festival and to be placed in County Band Festival. Selected members of the band perform with the Symphony Strings in the annual Holiday Concert, in the pit orchestra for the Spring Musical and in the Spring Orchestra Concert.

**H0923 CONCERT STRINGS**

1 Credit (Full Year) Grade 9 (Alternative scheduling option for Grades 10-12)

**Prerequisite:** Students must have previous string experience and must either be recommended by their middle school director or complete a successful pre-assessment for the director.

This ensemble is primarily for instrumentalists new to HHS (typically 9th grade) and intermediate-level students who play bowed string instruments. The ensemble rehearses every other day and performs at several concerts. Students are required to perform in all concerts, which provide the basis for summative assessments during each grading period. During rehearsal the emphasis is on ensemble skills, including tone quality, intonation, balance, rhythmic precision, articulation, emotional expression, and musical interpretation. In order to further develop these skills on an individual basis, students are strongly encouraged to study with a private teacher outside of the school day. Selected members of Concert Strings have the opportunity to audition for County and District Orchestra Festivals, and may be chosen to play in the pit orchestra for the Spring Musical.

*Participation in vocal and instrumental ensembles is encouraged. Courses are scheduled to usually allow for simultaneously enrollment in both vocal and instrumental ensembles.*
Prerequisite: Students must have previous string experience and must complete a successful audition for the director.

This ensemble is for students in grades 10-12 who play bowed string instruments. Symphony Strings rehearses every other day and performs in several concerts and other performances as announced.

Students are required to perform in all concerts, which provide the basis for summative assessments during each grading period. During rehearsals, the emphasis is on ensemble skills, including tone quality, intonation, balance, rhythmic precision, articulation, emotional expression, and musical interpretation. In order to further develop these skills on an individual basis, students are strongly encouraged to study with a private teacher outside of the school day. Select members of Symphony Strings have the opportunity to audition for County and District Orchestra Festivals, and may be chosen to play in the pit orchestra for the Spring Musical.

*Participation in vocal and instrumental ensembles is encouraged. Courses are scheduled to usually allow for simultaneously enrollment in both vocal and instrumental ensembles.

Students who have scheduling concerns due to membership in multiple performing ensembles should consult with the Music Department Coordinator.
CHAPTER 15
Science
Students must complete three (3.0) units of credit including General Science, Biology, and one additional credit from Chemistry, Biology, Anatomy & Physiology, Physics, Current Topics, Principles of Science & Technology, or Computer Science AP. Additionally, students in the class of 2021 and beyond must achieve a score of proficient or advanced on the Biology Keystone Exam. Students not demonstrating proficiency in any of the above tested areas must participate in the state’s Keystone re-test. Prior to the re-test, remediation and tutoring programs will be offered to students in their deficient area(s). As of the printing of this publication, the state legislature and department of education are still determining the status and implementation process for the Keystone Project Based Assessments (PBA) for students who are not proficient on the Keystone retest. Hempfield High School will follow the PBA regulations once they are approved. Students must complete three (3.0) units of credit including general science, biology, and one additional credit from Chemistry, Biology, Anatomy & Physiology, Physics, Current Topics, or Principles of Science & Technology.

Students may elect to take Biology during the second semester of their 9th grade year provided they have successfully completed either General Science H4173 or H4183.

Being recommended for a fourth year science does not mean that students are obligated to take a fourth science course. Graduation requirements only demand three years of Science. However, students considering a four-year college experience should consult with institutions in which they are interested in attending regarding Science requirements for admission.
Introduction to Programming H3733 does not satisfy graduation requirements in Mathematics or Science. Computer Science Principles AP H3893 can count as one credit for either Mathematics or Science.

**H4103 EXPERIMENTAL RESEARCH & DESIGN**
1 Credit Grades 9-12 (Alternate Years)

This is a science elective for students interested in independent science research. The course is designed to provide students with skills necessary to develop a science research thesis statement and carry out an independent research project. Emphasis will be placed upon 1) location and evaluation of background information, 2) methodologies, 3) appropriate statistical analysis, and 4) development of results and conclusions. The course culminates with students developing an independent research project.

**H4153 GENERAL SCIENCE - FOUNDATIONS**
1 Credit Grade 9

Students will be introduced to basic chemistry and biology by participating in class discussions, completing writing assignments, and conducting laboratory exercises. Major topics of investigation will include: properties, classification and changes of matter, biomolecules, and ecology.

**H4173 GENERAL SCIENCE CP**
1 Credit Grade 9

General Science is an introduction to the principles of chemistry and biology. Major topics of investigation will include science skills including the use of basic measurement, mathematics and dimensional analysis, properties, classification and change of matter, atomic theory, the periodic table, bonding and properties of matter, chemical reactions, biomolecules; enzymes and homeostasis and transport. Students will have the opportunity to learn the use of laboratory equipment and conduct a variety of experiments. Students will be required to complete reading and writing assignments, as well as, demonstrations and laboratory investigations.

**H44183 GENERAL SCIENCE HONORS**
1 Credit Grade 9

*Prerequisite: Completion of Algebra I, or permission of the instructor.*

Honors level General Science is an introduction to the concepts and theories of chemistry and physics. Emphasis will be placed on the integration of math, including algebra, graphing techniques, and scientific notation. Major topics of investigation will include science skills including the use of basic measurement, mathematics and dimensional analysis, properties, classification and changes of matter, atomic theory, the periodic table, bonding and properties of matter, chemical reactions, biomolecules, enzymes and homeostasis and transport. If there is time available, students may have the opportunity to explore topics such as acid-base theory, motion and forces, energy, waves, and electricity and magnetism. This will be a lab-oriented course. Students will apply science process skills through laboratory investigations and research projects that will enable them to apply various science concepts.

*This course is offered on a rotating basis.*

“Experimental Research & Design” will be offered for the 2018-2019 school year.
COLLEGE PREP SEQUENCE

General Science CP
H4173

Biology CP
H4273

Chemistry CP
H4363, H4373

Principles of Science & Technology H4463,
Physics CP H4473, or Physics Honors H4483

Chemistry II Honors
H4623

Biology II Honors
H4213
Anatomy & Physiology Honors H4803

FOUNDATIONS SEQUENCE

General Science
H4173

Biology
H4253

Current Topic
H4353
or
Chemistry H4363

HONORS / AP SEQUENCE

General Science
H4183

Biology
H4283

Chemistry
H4383

Chem I AP H4393
Chem II AP H4303
Chem II Honors H4623

Biology I AP H4923
Biology II AP H4203
Biology II Honors H4213
Environmental Science AP H4593
Anatomy & Phys. Honors H4803

Physics Honors
H4483

Mechanics AP H4491
Electricity & Magnetism AP H4492
This course is designed as a lab science for students interested in post-secondary study in any area of the biological sciences or for any student who has a strong interest in the biological sciences in general. This course will build on and extend the concepts learned in Biology helping students to develop a conceptual framework for biology and gain an appreciation of science as a process. Students will be participating in several field studies as a part of this course.

**H4293 BIOLOGY I AP**
1 Credit (First Semester) Grades 11-12
Prerequisites: Completion of Biology H4283 or H4273, Chemistry H4383 or H4373, and Algebra 2; and teacher recommendation. Concurrent scheduling or prior completion of a Physics course is recommended.

The Biology I AP course is an advanced laboratory biology course designed for students interested in post-secondary study in any area of the biological sciences. The two main goals are: to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. The topic areas covered are: molecular and cellular biology, energetics, genetics, and evolution. Students planning to take the AP exam in Biology should schedule both Biology I AP and Biology II AP.

**H4203 BIOLOGY II AP**
1 Credit (Second Semester) Grades 11-12
Prerequisites: Completion of Biology H4283 or H4273, Chemistry H4383 or H4373, and Algebra 2; and teacher recommendation. Concurrent scheduling or prior completion of a Physics course is recommended.

The Biology II AP course is an advanced laboratory biology course designed for students interested in post-secondary study in any area of the biological sciences. The two main goals are: to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process.
The topic areas covered are; taxonomy, phylogeny, and anatomy and physiology of plants and animals; and ecology. Students planning to take the AP exam in Biology should schedule both Biology I AP and Biology II AP.

**H4593 ENVIRONMENTAL SCIENCE AP**
1 Credit Second Semester) Grades 11-12
**Prerequisite:** Completion of H4283 Biology Honors and H4383 Chemistry Honors, or Biology CP (H4273) and Chemistry CP (H4373) with permission of the department supervisor. Concurrent scheduling or prior completion of a Physics course is recommended.

The Environmental Science AP course is designed to be the equivalent of a one semester, introductory college course in environmental science. The course is a rigorous science course that stresses scientific principles and analysis and includes a laboratory component; as such it is intended to enable students to undertake, as first-year college students, a more advanced study of topics in environmental science. The goal of the course is to provide students with the scientific principles, concepts and methodologies required to understand the inter-relationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, to examine alternative solutions for resolving and/or preventing them, and to develop and focus on their own role within society and the environment. Students will do field work within our campus outdoor study centers and on local field trips.

**H4353 CURRENT TOPICS IN SCIENCE**
1 Credit Grades 11-12
**Prerequisites:** General Science H4153 and Biology H4253 or recommendation of the Science Department Supervisor.

This is a science course for students needing to complete science graduation requirements and who are not planning to attend a post-secondary school. This course is designed to provide students with remediation for the Biology Keystone exam and practical, applicable knowledge base to better understand the world around them and to foster good thinking and decision-making skills. Contemporary issues in science will be discussed along with science topics that relate to everyday life. Students will have the opportunity to participate in class discussions, activities and laboratory exercises.

**H4363 CHEMISTRY**
1 Credit Grades 10-12
**Prerequisite:** Successful completion of General Science H4163 or H4173.

This is a laboratory oriented course covering such topics as: matter and its classification, chemical symbols and formulas, atomic structure, periodic classification of the elements, bonding, the gas laws, stoichiometry, solutions, and organic. Students will have the opportunity to participate in class discussions, activities, and laboratory exercises.

**H4373 CHEMISTRY CP**
1 Credit Grades 10-12
**Prerequisite:** Successful completion of Algebra 1B (H3173B). A solid understanding of algebraic principles is required, including rearranging equations with 3 variables, order of operations, and exponents. Completion of General Science and Biology.

This is a laboratory oriented course covering such topics as: matter and its classification, chemical symbols and formulas, atomic structure, periodic classification of the elements, bonding, the gas laws and molecular theories, stoichiometry, solutions, acids, bases, and salts.

**H4383 CHEMISTRY HONORS**
1 Credit Grades 10-12
**Prerequisite:** Minimum grade of “B-” in Algebra 1. The above minimum grades is waived if the student is recommended for and presently enrolled in Math Analysis Honors (H3483). Completion of General Science and Biology.
The chemistry honors course presents all of the basic ideas of chemistry employing a laboratory-centered approach. The students develop the chemical principles as an outgrowth of student experiments, teacher demonstrations, or class lectures. Topics presented are: atomic structure, periodicity, ionic and covalent bonding/nomenclature, mole concept, reactions, stoichiometry, states of matter, gas laws, thermochemistry and solutions. The course is recommended to students with a science-related vocational aim and who have a strong mathematical background. Students will be required to develop an experimental design based upon a research topic, conduct the experiment and complete the data analysis.

**H4393 CHEMISTRY I AP**
1 Credit (Fall Semester) Grades 11-12
**Prerequisites: Completion of Chemistry Honors H4383, (85% or higher and teacher recommendation. Current enrollment in, or satisfactory completion of, Math Analysis Honors (H3483), or Pre-calculus CP (H3473). Concurrent scheduling or prior completion of a Physics course is recommended.**

Chemistry I AP is designed for the student who is interested in furthering their study of chemistry, with an emphasis on laboratory skills. Topics covered are: Nature of Matter, Stoichiometry, Ionic and Molecular Compounds, Types of Reactions, Gases, Condensed Phases and Phase Transitions, Chemical Equilibrium, Dissolution and Precipitation Equilibrium. Students planning to take the AP exam in Chemistry should schedule both Chemistry I AP and Chemistry II AP.

**H4303 CHEMISTRY II AP**
1 Credit (Spring Semester) Grades 11-12
**Prerequisites: Completion of Chemistry I AP. Concurrent scheduling or prior completion of a Physics course is recommended.**

Chemistry II AP is a continuation of Chemistry I AP. Emphasis in this semester will be on preparing for the AP exam. Topics covered are: thermochemistry, kinetics, redox and electrochemistry, organic chemistry and nuclear chemistry. Students planning to take the AP exam in Chemistry should schedule both Chemistry I AP and Chemistry II AP.

**H4623 CHEMISTRY II HONORS**
1 Credit Grades 11-12
**Prerequisite: Successful completion of course (H4373 or H4383). Concurrent scheduling or prior completion of a Physics course is recommended.**

This course includes a slower pace than Chemistry AP, but will serve as a lab science for college acceptance to any institute of higher learning. Additional topics for study presented in this course include Redox Reactions, Acids/ Bases, molecular equilibria, electrochemistry, complexions, chemical bonding and organic chemistry. A major component of the course is maintaining an appropriate laboratory notebook. This is a challenging course involving mathematical reasoning of a mid-curriculum Algebra 2 level.

**H4463 PRINCIPLES OF SCIENCE & TECHNOLOGY**
1 Credit Grades 11-12
**Prerequisite: Successful completion of General Science H4163 or H4173, Biology H4263 or H4273, and two credits, in math including Algebra 1A (H3163A or H3173A).**

Principles of Science & Technology is a laboratory-based course. It is designed to meet the needs of a student looking to pursue a technical, mechanical or health related profession. The main thrust of the program will be to utilize math and science principles while applying them to real world situations. The theory will be reinforced with extensive “hands on” lab experiences. Students will study the concepts of: force, work, rate, resistance, energy and power as related to mechanical, fluid, electrical, and thermal systems. Students will work with hand and power tools, electronics, and computers. *This is an excellent program for any student interested in HVAC, plumbing, electrical, and a health tech profession.*
**H4473 PHYSICS CP**

1 Credit  
Grades 11-12  
*Prerequisite: Algebra 2 and Geometry or Algebra 2A CP (H3273A) formerly Algebra C. (Students who have taken, or are taking, Math Analysis and/or Calculus should take H4483, or H4491 and H4492, NOT H4473.)*

Physics CP (4473) is offered for those students who are not planning to enter a math, science or engineering-related field, but would like to obtain a foundational understanding of the fundamental concepts in Physics. Topics covered include: kinematics, dynamics, electricity, and electronics. Algebra will be utilized in the solving of problems. The necessary concepts of algebra will be reviewed as part of the course. Students will be engaged in several required STEM projects throughout the semester.

**H4483 PHYSICS HONORS**

1 Credit  
Grades 11-12  
*Prerequisite: Pre-calculus CP (H3473), Math Analysis (H3483)*

Physics (Honors) is a survey course of the fundamental concepts of: kinematics, dynamics, electricity and electronics. Trigonometry will be utilized in the solving of two-dimensional problems. This course is offered for students interested in pursuing a math, science-related or engineering-related field of study. Physics Honors differs from the H4473 Physics CP courses in the quantity and depth to which an area is studied. This course utilizes a college physics text. Students will be engaged in several required STEM projects throughout the semester.

**H4493 PHYSICS AP – MECHANICS**

1 Credit (Fall Semester)  
Grades 11-12  
*Prerequisite: Completion of, or concurrent scheduling of, Calculus AB AP (H3593A).*

The Mechanics AP course is a calculus based physics course in classical mechanics. It is a course for students who may be interested in a science or engineering related field. The course will prepare students who wish to take the AP exam for college credit. It is also designed to prepare students to take a calculus based physics course in college. The following topics will be included: kinematics and dynamics of point masses, interactions of particles (mass, momentum and force), energy and work, laws of gravitation and orbiting bodies. The Mechanics AP course will be taught as a problem-solving course with the expectation that many of the theoretical laws will be learned in the process of problem solving.

**H4413 PHYSICS AP – ELECTRICITY AND MAGNETISM**

1 Credit (Spring Semester)  
Grades 11-12  
*Prerequisite: AP Mechanics*

The Electricity and Magnetism AP course is a calculus based physics course in classical electro-magnetism. It is a course for students who may be interested in a science or engineering related field. The course will prepare students who wish to take the AP exam for college credit. It is also designed to prepare students to take a calculus based physics course in college. The following topics will be included: electrostatics, electrodynamics and magnetism. The Electricity and Magnetism AP course will be taught as a problem solving course with the expectation that many of the theoretical laws will be learned in the process of problem solving.

**H4803 ANATOMY & PHYSIOLOGY HONORS**

1 Credit  
Grade 11-12  
*Prerequisites: Completion of Biology H4273 or H4283 an concurrent scheduling or prior completion of Chemistry CP H4373 or H4383 is required.*

Anatomy and Physiology is designed as a lab science for students interested in post-secondary study in any area of the biological sciences or for any student who has a strong interest in pursuing a career in areas related to medicine, nursing, physical education,
physical therapy, or cosmetology. Students will gain
depth of understanding in reproduction, developmental
biology, physiology regulation of homeostasis, gross
anatomy. Students will be required to dissect a cat as
part of this elective course.
CHAPTER 16

Social Studies

You got a better idea?
### SOCIAL STUDIES COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Recommended Grade</th>
<th>Semester (S) / Year (Y)</th>
<th>Everyday (E) / Alternate Days (A)</th>
<th>Units of Credit/Year</th>
<th>Weighted Course Value</th>
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<tbody>
<tr>
<td>H2153</td>
<td>Foundations of American History</td>
<td>9</td>
<td>S</td>
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<td>American History AP</td>
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<td>S</td>
<td>E</td>
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<td>Value IV</td>
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<td>H2353</td>
<td>Foundations of World History</td>
<td>10</td>
<td>S</td>
<td>E</td>
<td>1</td>
<td>Value I</td>
</tr>
<tr>
<td>H2373</td>
<td>World History CP</td>
<td>10</td>
<td>S</td>
<td>E</td>
<td>1</td>
<td>Value I</td>
</tr>
<tr>
<td>H2383</td>
<td>World History Honors</td>
<td>10</td>
<td>S</td>
<td>E</td>
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<td>Value III</td>
</tr>
<tr>
<td>H2393</td>
<td>World History AP: Modern</td>
<td>10-12</td>
<td>S</td>
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<td>Value IV</td>
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<tr>
<td>H2453</td>
<td>Foundations of Government &amp; Economics</td>
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<td>S</td>
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<tr>
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<td>Government &amp; Economics Honors</td>
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<td>H2863</td>
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<td>H2693</td>
<td>Micro Economics AP</td>
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<td>H2893</td>
<td>Comparative Government &amp; Politics AP</td>
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<td>Pennsylvania and Lancaster County CP</td>
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<td>H2553</td>
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<td>H2563</td>
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<tr>
<td>H2911</td>
<td>Criminal Justice</td>
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</table>

Students must complete Four (4.0) Units of Credit to meet Graduation Requirements. Options include,

- **Grade 9**: American History or American History AP
- **Grade 10**: World History or World History AP: Modern
- **Grade 11**: US Government and Economics or Government and Politics AP
- **Grade 12**: Global America or Micro Economics AP or Comparative Government AP or Dual Enrollment Microeconomics Course

+ **College in the high school course** option.
American History Advanced Placement will be available for 9th grade students who meet the following academic requirements:

1. Students must score Advanced in their Reading PSSA scores in 7th grade and Reading and Writing PSSA scores in 8th grade. PSSA scores from the 8th grade exam will not be known until the summer before the student enters 9th grade, so if their scores drop below Advanced they will be removed from the class and placed into an Honors section.

2. Students must score above average in the Comprehension Composite section in the GRADE test taken the second time in 8th grade.

3. Students must receive a recommendation from their honors American History teacher in 8th grade to take AP American History in 9th grade. Teachers will utilize a checklist of traits/skills necessary to recommend students for AP American History.

### SOCIAL STUDIES COURSE SEQUENCE

The courses listed in the chart are required for each grade level by sequence. It is required for students to take the courses in the order listed below (American History, World History, Government and Economics, and Global America). Students may not deviate from the sequence. Note that students may switch between strands from year to year as long as the student meets the stated requirements in the course description for entering the new sequence and s/he or receives parent, teacher, or Department Supervisor approval.

<table>
<thead>
<tr>
<th>Course Sequence</th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
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<td>Honors</td>
<td>American History – Honors</td>
<td>World History 10 – Honors</td>
<td>Government and Economics – Honors</td>
<td></td>
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</tbody>
</table>

To Review Online Social Studies Course Options, Please Click Here.
H2153 FOUNDATIONS OF AMERICAN HISTORY
1 Credit Grade 9
Prerequisite: Teacher Recommendation

American History, provides students with a foundation in the historical, geographic, political, socio-cultural and economic development of the United States from the post-Civil War time period to 1980. Students will examine the major issues, achievements, and challenges faced by our country and its leaders. This course includes connecting current issues in America with the past through the use of technology, cooperative learning, and individual interpretations.

H2173 AMERICAN HISTORY CP
1 Credit Grade 9

American History CP provides students with a foundation in the historical, geographic, political, socio-cultural and economic development of the United States from the late 19th to late 20th Centuries. The course focuses on the impact of historical events and how those events have shaped the American identity. This course will include the extensive use of technology, cooperative learning, and individual interpretation in the study of American History to show mastery of identified standards. Students will be required to complete oral and written content topic writings, research using primary sources, and assignments to be completed outside of the classroom.

H2183 AMERICAN HISTORY 9 HONORS
1 Credit Grade 9

The American History Honors course requirements will include those of the college prep course with a greater focus on the willingness of students to be self-motivated to engage in the concepts and content of the course. Students will do numerous outside readings, internet research, and essay writings. The course will also stress current issues and events that reflect upon historical and cultural trends.

H2353 FOUNDATIONS OF WORLD HISTORY
1 Credit Grade 10

Emphasis in this course will be on the relationship of the course content to the professional and work life of the student in an environment of technological change and development. Students will study world cultures and history including: Western Europe, Middle East, India, China, and Africa from 1450 to present. The course focuses on current issues that reflect upon historical and cultural trends.

H2373 WORLD HISTORY CP
1 Credit Grade 10

This course is an overview of world cultures and history. An understanding of the basic elements of culture serves as the introduction to the course. The geography, history, socio-cultural, economic and political characteristics and the development of Europe, Middle East, India, China, and Africa from 1350 to present are components of the course content. The course focuses on current issues that reflect upon historical and cultural trends. This course includes research projects.

H2383 WORLD HISTORY HONORS
1 Credit Grade 10

In this course students will do several outside readings, Internet research assignments, and several essays while learning about the development of modern civilization and the increasingly globalized world. An overview of the elements of culture serves as the introduction to the course. The primary focus of the course is the understanding of various world cultures and histories including: Europe, Middle East, India, China, and Africa from 1350 to present. The course will also stress current issues and events that reflect upon historical and cultural trends.
H2393 WORLD HISTORY AP: MODERN
1 Credit Grade 10-12
Prerequisite: B+ or higher in a previous Honors level Social Studies course or the approval of the Department Supervisor.

World History AP: Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

H2453 FOUNDATIONS OF GOVERNMENT & ECONOMICS
1 Credit Grades 11

Citizenship is a fundamental aspect within American society. Thus, the emphasis of the Foundations of Government and Economics course will be focus on the relationship between civic participation and economic activity within each student’s personal and professional life. Utilizing in-class instruction such as current events, guest speakers, and project-based learning, the course will focus on a comprehensive analysis of both the structure and function of the United States’ government and economic systems.

H2463 GOVERNMENT & ECONOMICS
1 Credit Grades 11

Government and Economics is designed to give each student a comprehensive study of the structure and functions of the United States’ political and economic systems. As such, students will develop the inquiry and analytical skills necessary to better understand the foundations, functions, and purpose of the American government, as well as the aggregate economy. Utilizing in-class instruction such as current events, guest speakers, and project-based learning, the course will focus on an in-depth analysis of both the structure and function of the United States’ government and economic systems.

H2473 GOVERNMENT & ECONOMICS CP
1 Credit Grade 11

The Government and Economics – College Preparatory class is designed to give the student an interpretive analysis of the structure and functions of the United States’ political and economic systems. As such, students will develop the inquiry and analytical skills necessary to better understand our political and economic systems. Such systems will be studied through the foundation of the American form of government, political ideology, the role of the American citizen within government, political leadership, and the study of choices within both micro and macro-economics. Additionally, students will develop a keen awareness of how Government & Economics affects citizens via an in-depth examination of current events as an integral component of the course.

H2483 GOVERNMENT & ECONOMICS HONORS
1 Credit Grade 11

The Honors Government and Economics – College Preparatory class is designed to give the student an intense interpretive analysis of the structure and functions of the United States’ political and economic systems. As such, students will develop the inquiry and analytical skills necessary to better understand our political and economic systems. Such systems will be studied through the foundation of the American form of government, political ideology, the role of the American citizen within government, political leadership, and the study of choices within both micro and macro-economics. Additionally, students will develop a keen awareness of how Government & Economics affects citizens via an intense examination of current events, as well as outside readings and collegiate articles, as an integral component of the course.
H2493 U.S. GOVERNMENT & POLITICS AP
1 Credit Grade 11
Prerequisite: B+ or higher in a previous Honors level
Social Studies course or the approval of the
Department Supervisor.

U.S. Government and Politics AP is a one-semester introductory college course. This course provides students the opportunity to develop a critical perspective on government and politics in the United States. The focus of this course is on the structure of our government based on the Constitution’s separation of powers and checks and balances. It includes the concepts and structures used to interpret American politics and the analysis of significant case studies. Students examine various institutions, groups, beliefs, and ideas that shape the American political system. This course also incorporates a unit on introductory economic concepts, principles and functions. Students will have the option to take the national Advanced Placement examination in U.S. Government and Politics for possible college credit. U.S. Government and Politics AP may be taken in lieu of Government and Economics Honors (2483).

H2853 FOUNDATIONS OF GLOBAL AMERICA
1 Credit Grade 12

Emphasis in this course will be on the relationship of the course content to the professional and work life of the student in an environment of technological change and development. Global America is a chronological study of America’s modern day influence and participation in world events. This course will emphasize modern American history since the Cold War and America’s role in global political and economic issues. Themes will include international conflict and compromise, domestic politics, globalization, economic interdependence, and technology. This course corresponds to the Pennsylvania Standards for Civics & Government and Economics.

H2863 GLOBAL AMERICA
1 Credit Grade 12

Emphasis in this course will be on the relationship of the course content to the professional and work life of the student in an environment of technological change and development. Global America is a chronological study of America’s modern day influence and participation in world events. This course will emphasize modern American history since the Cold War and America’s role in global political and economic issues. Themes will include international conflict and compromise, domestic politics, globalization, economic interdependence, and technology. This course corresponds to the Pennsylvania Standards for Civics & Government and Economics.

H2873 GLOBAL AMERICA CP
1 Credit Grade 12

Emphasis in this course will be on the relationship of the course content to the professional and work life of the student in an environment of technological change and development. Global America is a chronological study of America’s modern day influence and participation in world events. This course will emphasize modern American history since the Cold War and America’s role in global political and economic issues. Examples of themes explored throughout the course may include, continuity and change, conflict and cooperation, government systems, foreign policies, economic systems, international trade, international organizations, mass media, technology and world politics. Students will complete outside readings, reports, and/or projects. This course corresponds to the Pennsylvania Standards for Civics & Government and Economics.

H2893 COMPARATIVE GOVERNMENT & POLITICS AP
1 Credit Grade 12
Prerequisite: B+ or higher in a previous Honors level
Social Studies course or the approval of the
Department Supervisor.

Comparative Government & Politics AP is a one-semester introductory college course. This course provides students the opportunity to develop a critical perspective on the similarities and differences among national governments and political systems. It includes
the concepts and structures used to interpret governmental and political systems, and will include the study of the governmental systems of Great Britain, Russia, China, Mexico, Iran, and Nigeria.

Students will have the option to take the national Advanced Placement examination in Comparative Government & Politics for possible college credit.

*Comparative Government and Politics may be taken in lieu of Global America.*

**H2693 MICRO ECONOMICS AP**

1 Credit  
Grade 12

*Prerequisite: B+ or higher in a previous Honors level Social Studies course or the approval of the Department Supervisor.*

The AP course in microeconomics develops a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of markets, and the role of government in promoting greater efficiency and equity in the economy. Students are required to complete outside reading and writing assignments that involve research and use basic mathematical problem-solving skills. Students will have the option to take the national Advanced Placement examination in Microeconomics for possible college credit. *Micro Economics AP may be taken in lieu of Global America.*

**SOCIAL STUDIES – ELECTIVES**

*The following courses count toward elective credits. Note that access to some electives is restricted by grade level. In addition, Advanced Placement courses that students do not use as a replacement course may count as an elective.*

**H2293 EUROPEAN HISTORY AP**

1 Credit  
Grades 10-12

AP European History is designed to be the equivalent of a two-semester introductory college or university European history course. In AP European History students investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity.

**H2593 AMERICAN HISTORY AP**

1 Credit  
Grades 9-12

*Prerequisite: B+ or higher in a previous Honors level Social Studies course or the approval of the Department Supervisor.*

This course is designed to study the history of the United States chronologically with emphasis on historical interpretations and analysis of events that shaped the course of our nation’s history. Students will be required to write descriptive and analytical essays on a regular basis. The course will prepare students to take the Advanced Placement Test in American History given by the College Board.
H2393 WORLD HISTORY AP: MODERN

1 Credit
Grade 10-12

Prerequisite: B+ or higher in a previous Honors level Social Studies course or the approval of the Department Supervisor.

World History AP: Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

H2543 PENNSYLVANIA AND LANCASTER COUNTY CP

1 Credit
Grade 9-12

Why do millions of people visit Lancaster County every year? How do the Amish live? This course will help students develop an understanding of what it means to live in Pennsylvania and Lancaster County. Course concepts include the history and geography of Pennsylvania, Lancaster County, and the Hempfield School District. In addition, the course will focus on the economic trends, social and cultural aspects of Pennsylvania and Lancaster. Students will explore resources to develop an understanding of their place in Pennsylvania and Lancaster County and will have an opportunity to experience oral history to help them further develop their understanding of the core concepts of the course.

H2553 RIGHTS AND EVENTS IN A MODERN WORLD

1 Credit
Grade 9-12

This project-based course integrates domestic and worldwide events with the study of rights and their evolution in today's world. The course begins with an examination of the modern world and its issues and follows with a detailed study of the most important events of the 21st Century. Students will analyze the evolution of rights as well as the connection between rights, culture, and political systems. Human rights, including modern-day slavery and censorship, equal rights, and individual rights will serve as a main focus of study. Current events will also serve as a major course component. Skills emphasized within the course will include collaboration, inquiry, analysis, discussion, debate, and the integration of technology.

H2563 PRINCIPLES OF AMERICAN LAW

1 Credit
Grades 11 & 12

Prerequisite: Students must have successfully completed Government & Economics - College Prep (H2473), Honors (H2483), AP U.S. Government (H2493), or an approved replacement course, with an overall academic score of 'B' or higher before enrolling in this course, as a comprehensive knowledge of the United States Constitution, Due Process of Law, and Judicial Review are all necessary for students to understand prior to taking the Law Course.

Citizens of the United States are fortunate to live in a country where the rights and liberties of individuals are valued and protected. Through the use of readings and realistic case studies, students will learn one's legal rights and responsibilities, how the American legal system operates, and how to be a participant in a legal action. Students will participate in various discussions, debates, and legal writings throughout the course, as well as engage in an authentic Mock Trial simulation.
H2573 PSYCHOLOGY CP
1 Credit Grades 10-12
Prerequisite: C or higher in a previous College Prep level Social Studies course or permission from the Department Supervisor.

This course is an introduction to the behavioral sciences. The first portion of the course is an introduction to Psychology. The second portion of the course is an introduction to Sociology. The basic principles of human behavior and the theories which support current schools of thought are examined. The inquiry and analytical skills required for the study of human behavior will be a sound basis for college study and will provide students with the insights to better understand him/herself and others.

Students who enroll in this course and score a B+ or higher will be eligible to take Psychology AP.

H2993 PSYCHOLOGY AP
1 Credit Grades 11 & 12
Prerequisite: B+ or higher in a previous Honors level Social Studies course or the approval of the Department Supervisor.

Advanced Placement Psychology is an in-depth study of human behavior. Topics such as learning, personality, abnormal psychology, therapy and human development will be studied. Students will be expected to complete a special topics project/presentation. Textbooks are college-level and students will be expected to read independently. Analysis and synthesis will be demonstrated through the writing of essays and participation in discussion. College credit and/or advanced placement may be obtained by achieving a satisfactory score on the standardized Advanced Placement Psychology exam.

H2911 CRIMINAL JUSTICE
0.5 Credit Grades 9-12

This course is designed to provide an introductory overview of the U.S. justice process and the criminal justice system in general. Concepts of crime, deviance, and justice will be discussed, and general theories of crime causality will be examined. Individual rights in a democratic society will be explored, as will the legal definitions of various crimes. The organization and operation of the three basic components of the criminal justice system—the police, the courts, and corrections individually and in relationship to one another, will also be explored. The theme of individual rights vs. public order is the framework for the course content.
CHAPTER 17
Technology and Engineering Education
## TECHNOLOGY AND ENGINEERING EDUCATION COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Recommended Grade</th>
<th>Semester (S) / Year (Y)</th>
<th>Everyday (E) / Alternate Days (A)</th>
<th>Units of Credit/Year</th>
<th>Weighted Course Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>*H8093</td>
<td>Introduction to Engineering Design</td>
<td>9-12</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
<td>Value IV</td>
</tr>
<tr>
<td>*H8193</td>
<td>Principles of Engineering</td>
<td>10-12</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
<td>Value IV</td>
</tr>
<tr>
<td>*H8293</td>
<td>Digital Electronics</td>
<td>10-12</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
<td>Value IV</td>
</tr>
<tr>
<td>H8113</td>
<td>Electronics I</td>
<td>9-12</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
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</tr>
<tr>
<td>H8123</td>
<td>Electronics II</td>
<td>10-12</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>H8143</td>
<td>Electronics - Independent Study</td>
<td>11-12</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>H8263</td>
<td>Photography</td>
<td>10-12</td>
<td>S</td>
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<td></td>
</tr>
<tr>
<td>H8281</td>
<td>Digital Photography</td>
<td>9-12</td>
<td>S</td>
<td>A</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>H8303</td>
<td>Manufacturing Technology I</td>
<td>9-12</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
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</tr>
<tr>
<td>H8313</td>
<td>Manufacturing Technology II</td>
<td>10-12</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>H8323</td>
<td>Manufacturing Technology - Independent Study (Fab Tech)</td>
<td>10-12</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
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</tr>
<tr>
<td>H8413</td>
<td>Power Technology</td>
<td>9-12</td>
<td>S</td>
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<tr>
<td>H8503</td>
<td>Materials and Processes I</td>
<td>9-12</td>
<td>S</td>
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<tr>
<td>H8513</td>
<td>Materials and Processes II</td>
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<td>H8533</td>
<td>Materials and Processes – Independent Study</td>
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<td>S</td>
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<td>H8603</td>
<td>Intro to Drafting &amp; Design</td>
<td>9-12</td>
<td>S</td>
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<td>H8613</td>
<td>Engineering Drafting &amp; Design</td>
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<td>S</td>
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<tr>
<td>H8623</td>
<td>Architectural Drafting &amp; Design</td>
<td>10-12</td>
<td>S</td>
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<tr>
<td>H8643</td>
<td>Drafting &amp; Design - Independent Study</td>
<td>11-12</td>
<td>S</td>
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<tr>
<td>H8653</td>
<td>Stage Design</td>
<td>9-12</td>
<td>S</td>
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<tr>
<td>H8663</td>
<td>Desktop Publishing I</td>
<td>9-12</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>H8233</td>
<td>Desktop Publishing – Independent Study</td>
<td>11-12</td>
<td>S</td>
<td>E</td>
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</tr>
<tr>
<td>H8683</td>
<td>Introduction to Video Game Design</td>
<td>10-12</td>
<td>S</td>
<td>E</td>
<td>1.0</td>
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</tr>
</tbody>
</table>

*Project Lead the Way (PL TW) Course.* PLTW is a National High School Pre-Engineering Curriculum. See complete description below.

Project fees may exist as students will have the option to select additional or higher quality supplies for some assignments.

To Review Online Technology Engineering Course Options, Please Click Here.
PROJECT LEAD THE WAY (PLTW)
National High School Pre-Engineering Curriculum

This is a four-year sequence of courses developed by engineers, Rochester Institute of Technology (RIT) faculty, and associated organizations. The curriculum, when combined with traditional mathematics and science courses in the high school, introduces students to the scope, rigor and discipline of engineering prior to entering college. The program is part of an articulation agreement with PLTW and other affiliated colleges where students can earn up to eleven (11) college credits in Mechanical or Electrical Engineering Technology. Credits are awarded through the Rochester Institute of Technology.

Introduction to Engineering Design (H8093) is the entry course in the PLTW program. Follow-up courses in Principles of Engineering (H8193), Digital Electronics (H8293), Civil Engineering & Architecture (H8393), and Computer Integrated Manufacturing are also offered on a rotating basis. Additional courses will follow in subsequent years.

H8093 INTRODUCTION TO ENGINEERING DESIGN (PLTW)
1 Credit Grades 9-12
Math Prerequisites/Co-requisites: Algebra 1A or Algebra 1 (This is the first course in the Project Lead the Way program.)

Ever try to design something new or draw up an idea you wanted to share with your friends and wondered how you could communicate your idea? Or, have you wondered how someone designed that new MP3 player or sleek new phone? Then Introduction to Engineering Design is the course or you. The major focus of the course is learning how to take an idea through a design process that will eventually be manufactured or produced. As you learn about various aspects of engineering and engineering design, such as how engineers communicate through drawing, you will apply what you learn through various activities, projects, and problems. For example, after learning about the different techniques engineers use in determining how to design a product, you and your teacher will have the flexibility to explore the design and engineering processes to solve problems that are of interest to you. The course covers the following:

- The Role of an Engineer
- The Design Process
- Product Design
- Product Analysis and Improvement
- Designing as an Engineer

In addition, you will use Inventor, which is a state of the art 3-D design software package from AutoDesk, to help you design solutions to different design projects. Working in teams, you will learn about documenting your solutions, solving problems, and communicating your solutions to other students and members of the professional engineering community.

H8193 PRINCIPLES OF ENGINEERING (PLTW)
1 Credit Grades 10-12
Prerequisite: Student must have completed Introduction to Engineering Design (H8093) and maintained a “B” average or higher.
Math Prerequisite/Co-requisite: Geometry

The main purpose of this course is to experience, through theory and hands-on problem solving activities, what engineering is all about and to answer the question: “Is a career in engineering or engineering technology for me?” By exploring various technological systems and manufacturing processes, students learn how engineers and technicians use math, science, and technology in an engineering problem solving process to benefit people. Units of study include the process of design, types of engineering systems, material properties, and engineering dynamics.
**8493 COMPUTER INTEGRATED MANUFACTURING (PLTW)**
1 Credit Grades 10-12

*Prerequisite: Student must have completed Introduction to Engineering Design (H8093) and Principles of Engineering (H8193). Each student must have specific approval from the instructor.*

Computer Integrated Manufacturing (CIM) is the study of manufacturing planning, integration, and implementation of automation. The course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. This reflects an integrated approach that leading manufacturers have adopted to improve safety, quality, and efficiency.

The course applies and concurrently develops secondary-level knowledge and skills in Science, Technology, Engineering, and mathematics.

**H8113 ELECTRONICS I**
1 Credit Grades 9-12

Students interested in careers related to electronics, computer science or engineering should elect to take electronics. Success in our present world has become highly dependent upon an understanding of electronics technology. This introductory course will help you understand how many of the devices that we use every day actually work. This is a “hands-on” class where you can develop skills with tools, machines, and electronic test equipment. During the course, each student will actually construct a variety of electronic circuits, while developing skills in: reading schematics, identifying and soldering components, wiring, enclosure design, and basic troubleshooting. Topics covered include introduction to basic component characteristics, sources of electricity, circuits and power, Ohm’s law, magnetism, and simple D.C. electrical circuits. Computers are used to design circuit boards, draw schematics and enclosure drawings, simulate circuit functions, and perform experiments. A culminating project is required at the end of the course to demonstrate the student’s understanding of the course content. The major goal of this course is to provide a successful introductory experience with electronics that can serve as a foundation for further study.

**H8123 ELECTRONICS II**
1 Credit Grades 10-12

*Prerequisite: Student must have completed Electronics I (H8113) and/or Digital Electronics (H8293).*

Any student who plans to pursue a career in electronics, computers, science, or engineering will benefit from this course. Students will learn about a wide variety of electronic components and circuits while continuing to develop hands-on skills with tools, machines, and electronic test equipment. Topics of this course will focus on applications of electronic circuits used for communications systems and processing methods for sound, video, and digital information. An introduction into A.C. electrical circuits is presented. Students advance into a more detailed study of electronic components with emphasis on solid-state components and circuits. Computers are used extensively for computer-aided circuit design, circuit simulation, individualized instruction, and drawing of enclosure designs and schematics. Student built projects will reinforce concepts and develop individual skills. A project is required at the end of the course to demonstrate the student’s understanding of the course content. Field trips to the local electronics industry are included in this course to better acquaint students with opportunities associated in the electronics field.

**H8143 ELECTRONICS – INDEPENDENT STUDY**
1 Credit Grades 11-12

*Prerequisite: Student must have completed Electronics II (H8123) and maintained a “B” average or higher. Each student must have specific approval from the instructor.*

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Independent study courses are designed for the exemplary Technology Education student who has the ability and desire to pursue an in-depth study of a specific area in which they have proven themselves to be proficient. A conference should be held with the instructor to determine course content, requirements, and eligibility.

**H8263 PHOTOGRAPHY**  
1 Credit Grades 10-12

Photography is a means to visually communicate ideas. Students are taught skills to compose and shoot photos using a DSLR and SLR camera. Students will explore camera function, digital imaging, darkroom techniques and proper safety procedures. Students will develop black and white film, create negatives, and use these negatives to produce black and white prints. Students will compare traditional processes to digital imaging. Content also includes the study of portrait and landscape photography along with concepts of exposure control using shutter speed and aperture. Supplementary course work includes lighting, special processes and other advanced photography skills. Presentation and finishing techniques will be discussed.

This is a hands-on, performance-based course: students will gain knowledge and understanding by attempting all operations discussed in class lectures and demonstrations. There are a limited number of loaner cameras available for short duration sign-out periods to complete photo-shoots assigned for outside of class. It is recommended, but not required that students take digital photography prior to taking this course.

**H8303 MANUFACTURING TECHNOLOGY I**  
1 Credit Grades 9-12

Designed as an introductory course, students will learn about the design, engineering and manufacturing of products. All students will gain experience working with a variety of manufacturing processes such as machining, welding fabrication, bending and forming, metal casting and computer aided manufacturing.

Students will work individually and in teams to construct products made from plastics and metals. This course is an opportunity for students to design and construct individual projects as well as participate in team projects. Team projects provide many opportunities for design and problem solving. Examples of previous team projects include the construction of a pneumatic arm wrestling machine, an air hockey game, and an all terrain go-kart. This course is valuable for learning about careers related to manufacturing and will provide all students with practical knowledge about the common materials, tools, machines and processes used in our technological world today.

**H8313 MANUFACTURING TECHNOLOGY II**  
1 Credit Grades 10-12  
*Prerequisite: Manufacturing Technology I*

This class is an exciting opportunity for students to pursue advanced level topics in the Manufacturing Lab. Central units of instruction will be advanced welding and cutting processes such as TIG, Plasma and Stick. Students will work with both metallic and plastics and will learn about milling and lathe turning, both manual and CNC, metal casting and forming.

Students will be able to design and fabricate individual projects or be a part of team projects such as Rollerball and robotic vehicles. Laboratory projects and “hands on” experience will be a major emphasis of this course. This class is highly recommended for students entering the work force or for students who are pursuing post-secondary training.

**H8323 MANUFACTURING TECHNOLOGY - INDEPENDENT STUDY (FAB TECH)**  
1 Credit Grades 10-12  
*Prerequisite: Student must have completed Manufacturing Technology I (H8303) and maintained a “B” average or higher.*
Hands on experience learning practical skills related to STEM careers. Students will work with machines to fabricate tools and fixtures related to product design. Casting, forging, stamping, welding, machining and CNC are some of the experiences to be gained. Example products to be produced are Key chain, Money clip, leather emboss, arm wrestling machine, rollerball track, CNC light sign and piston engine. Students will travel to industry to interact with class design projects. This class encourages personal creativity and ingenuity and provides experiences that reinforce the rest of the educational curriculum at the high school. It is highly recommended for students entering the work force or for students who are pursuing post-secondary training.

**H8413 POWER TECHNOLOGY**
1 Credit Grades 9-12

Power Technology course content includes alternative energy sources, gasoline engines, mechanical power, fluid power, electrical control systems, and automation. Learning activities include designing a solar home and vehicle, constructing hydroelectric and wind turbines, rebuilding a small gasoline engine, utilizing various power train components, and constructing pneumatic circuits. Students will also learn how to use electrical control devices and programmable logic control (PLC) to control both pneumatic and mechanical systems. The course concludes with an opportunity to work in teams to create final design projects utilizing technologies taught throughout the course. Examples include Battle-Bots and remote controlled hovercrafts. This class is an excellent opportunity to learn about our automated world.

**H8503 MATERIALS & PROCESSES I**
1 Credit Grades 9-12

This introductory class is designed to introduce students to woodworking production experiences. Students will learn how to safely use wood-working tools and power equipment to explore the properties and characteristics of wood by constructing various student centered projects. Additionally, students will complete several problem-solving activities (The Penny Launcher is an example of this type of activity). Students will have the opportunity to use the computer controlled router (CNC) and laser engraver. Basic skills in math and mechanical drawing will be helpful for project planning.

**H8513 MATERIALS & PROCESSES II**
1 Credit Grades 10-12

**Prerequisite: Materials & Processes I**

Students will have an opportunity to further develop and apply skills in the areas of woodworking and wood production. Students will explore specialized methods of safe machine operation, project planning, and project development in a hands-on, student-centered lab environment. Problem solving activities will be introduced to develop higher level thinking skills. (The Golf Ball Launcher Analysis is an example of this.) The CNC router, laser engraver and other technological developments in the area of woodworking will also be further studied. Students are expected to work and learn both independently and cooperatively in order to be successful.

**H8533 MATERIALS & PROCESSES – INDEPENDENT STUDY**
1 Credit Grades 10-12

**Prerequisite: Student must have completed Materials & Processes II (H8513) and maintained a “B” average or higher. Each student must have specific approval from the instructor.**

Independent study courses are designed for the exemplary Technology Education student who has the ability and desire to pursue an in-depth study of a specific area in which they have proven themselves to be proficient. A conference should be held with the instructor to determine course content, requirements, and eligibility.
**H8603 INTRO TO DRAFTING & DESIGN**
1 Credit Grades 9-12

If you are interested in a career in engineering or architecture, this is the class for you. This class is designed as an introduction to drafting and design techniques and software. It will stress the importance of drafting to industry and technology education. Traditional topics will include: measurement and geometric construction. Computer-Aided-Drafting (CAD) will be introduced and used for the bulk of the student work in this class. AutoCAD will be used for 2D CAD work including the study of orthographic projection, dimensioning, section views, isometric projection, and pattern development. Autodesk Inventor will be used for the 3D Solid modeling portion of this course. Students will learn to model parts, create assemblies, animate assemblies and create drawing views of their models. The final project for this course is a reverse engineering assignment. Students will examine a product visually, structurally, and functionally. After understanding the function and geometry of the product they will model and animate the products’ parts using Autodesk Inventor. Evaluation will be based on completion of projects and assignments.

**H8613 ENGINEERING DRAFTING & DESIGN**
1 Credit Grades 10-12

*Prerequisite: Intro to Drafting & Design*

This course is designed to help students understand how to effectively communicate designs through 2D drawings and 3D modeling. This course will include a review of AutoCAD drafting techniques for 2D drawings including; orthographic projection, auxiliary views, isometric projection, section views and solid intersections. Autodesk Inventor will be used for the bulk of the course to create 3D solid models, assemble and animate designs, and create annotated drawings. Computer-Aided-Manufacturing (CAM) will be introduced and students will use AutoCAD and the laser cutter to cut parts for hands on design and problem solving activities including; a hydraulically powered robotic arm and scale model of a drawbridge all designed and built by the students. Evaluation will be based on completion of projects and assignments.

**H8623 ARCHITECTURAL DRAFTING & DESIGN**
1 Credit Grades 10-12

*Prerequisite: Intro to Drafting & Design*

This course will introduce the student to residential home construction and planning. Topics of study will include: sketching, scale, room/area planning, architectural styles, influential architects, plot planning, foundations systems, wall and truss construction, model construction and architectural design software. After learning the design process, students will use Autodesk Revit to model their designs. Autodesk Revit creates a 3D “Building Information Model” (BIM) which allows architects to export 2D plans, schedules, rendered images and walk-throughs from 3D computer models. Students will leave with a full set on home plans including, a presentation sheet, a plot plan, floor plan(s), foundation plan, elevations, and section/detail sheet(s). The final project for this course is a scale model of the student’s residential home design. Students will learn how to export their 3D Revit model into 2D AutoCAD and use the geometry to cut scale models of their design on the laser cutter/engraver. Evaluation will be based on a final portfolio of plans, models, and completion of in class projects and assignments.

**H8643 DRAFTING & DESIGN - INDEPENDENT STUDY**
1 Credit Grades 10-12

*Prerequisite: Student must have completed Engineering Drafting & Design (H8613) or Architectural Drafting & Design (H8623) and maintained a “B” average or higher. Each student must have specific approval from the instructor.*

Independent study courses are designed for the exemplary Technology Education student who has the ability and desire to pursue an in-depth study of a
specific area in which they have proven themselves to be proficient. A conference should be held with the instructor to determine course content, requirements, and eligibility.

**H8653 STAGE DESIGN**

1 Credit Grades 9-12

The Stage Design course introduces students to a variety of “behind the scenes” activities as they design, construct, paint, and light sets for Hempfield's stage productions. Course content includes scale drawing and modeling, computer-aided design, set construction techniques, scenic painting, and lighting design. Theater sound is also addressed briefly. Learning activities include construction of stock scenic pieces, student-designed paint projects, 3-D computer set models, and student designed lighting areas and plots using real equipment. Students will learn safe conduct both on the stage and in the scene shop. The course offers many optional extracurricular opportunities for those who wish to pursue further involvement in the theater.

**H8663 DESKTOP PUBLISHING I**

1 Credit Grades 9-12

Desktop Publishing focuses on communicating effective messages through the use of design and layout. Student activities concentrate on design, digital imaging, and using related software applications efficiently. Students transfer their knowledge of other disciplines as they relate to class projects. Design and layout skills will be introduced and strengthened as an integral segment of computer technology. All students will have the opportunity to utilize the Internet, which serves as an important tool for obtaining relevant information. How related technologies impact our society will be discussed. Performance based assessment will be used and portfolios will count as the student’s final exam grade. Students may have the opportunity to meet representatives from post-secondary institutions.

**H8233 DESKTOP PUBLISHING - INDEPENDENT STUDY**

1 Credit Grades 10-12

*Prerequisite: Student must have completed Desktop Publishing II (H8233) and maintained a “B” average or higher. Each student must have specific approval from the instructor.*

Independent study courses are designed for the exemplary Technology Education student who has the ability and desire to pursue an in-depth study of a specific area in which they have proven themselves to be proficient. A conference should be held with the instructor to determine course content, requirements, and eligibility.

**H8281 DIGITAL PHOTOGRAPHY**

0.50 Credit Grades 9-12

Digital Photography is a fast-paced, exploratory course in digital imaging and editing. Students will be required to use outside class time to complete a specific number of shooting assignments. Some of the topics focus on composition and the manipulation of camera settings. Students will use computer software to enhance, restore and manipulate their digital photos. Image scanning techniques will also be covered along with the moral, ethical, and responsibility issues surrounding digital imaging. Students are not required to provide a digital camera for the course; a limited number of loaner cameras will be available per section.

**H8683 INTRODUCTION TO VIDEO GAME DESIGN**

1 Credit Grades 10-12

*Prerequisite: Students must have successfully completed Desktop Publishing I.*

Take what you know about playing video games to the next level and create your own. Introduction to Video Game Design is a course that introduces students to
the many aspects of the gaming industry. Students will
learn how to design and create basic video games. A
background in design will be required and helpful as
students learn how to incorporate multiple applications
toward a common outcome. The curriculum uses
concepts of science, technology, engineering, and math
as a foundation. Throughout the course, students will
apply information learned from various disciplines and
strengthen core basics.

H8683-OL INTRODUCTION TO VIDEO GAME
DESIGN
1 Credit Grades 10-12

Prerequisite: Students must have successfully
completed Desktop Publishing I.

This online course provides you with an opportunity for
you to take what you know about playing video games
to the next level and create your own. Video Game
Design is an introductory course that allows students to
learn how to design and create basic video games using
Games Factory 2 and Scratch software. A background
in design will be helpful as students learn how to
incorporate multiple applications for a common
outcome. The curriculum uses science, technology,
engineering, and math (STEM) as a foundation.
Throughout the course, students will apply information
learned from various disciplines and strength core
basics.
The Department of World Languages recommends a final average of at least a “C-” to transition from a Level I to Level II course in all languages. The Department of World Languages requires a final average of at least a “C-” to transition from a Level II to Level III course (and beyond) in all languages.

<table>
<thead>
<tr>
<th>Course Number</th>
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<th>Recommended Grade</th>
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To Review Online World Languages Course Options, Please Click Here.
# World Languages Course Sequences

## Chinese

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## French

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## German

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<tr>
<td></td>
<td>German Culture &amp; History through Film - Honors*</td>
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* These courses are offered on a rotating basis. “German Culture and History through Film – Honors” is being offered for the 2020-2021 school year. “German Language and Culture – AP” will be offered for the 2021-2022 school year.

## Latin

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<td>Latin 301: Latin Prose – Honors ^</td>
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<td></td>
<td>Latin 302: Latin Poetry – Honors ^</td>
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^ These courses are offered on a rotating basis. “Latin 302: Latin Poetry – Honors” is being offered for the 2020-2021 school year. “Latin 301: Latin Prose – Honors” will be offered for the 2021-2022 school year.

## Spanish

<table>
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<td>Spanish 504 – Honors</td>
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<td>Spanish 505 – Honors</td>
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Spanish 503: ¡Viva Español! (Spanish Life) – Honors
Spanish 504: Aventuras en la América Latina (Adventures in Latin America) – Honors
Spanish 505: Español Comercial (Business Spanish) – Honors
Spanish Language and Culture - AP
China is the largest country (in respect to population) in the world. It represents one fifth of the world’s population and is growing rapidly in economic strength and in world influence. It is a major trade partner. The course will be valuable in understanding China’s history and how it sees itself in the world. This course will also address Cultural Competency standards for Global Citizens, as well as College and Career Readiness Standards in our global economy. The course is taught in English and all students are welcome to take this course as an elective.

Students who have no background or a limited background in Chinese should begin with this course.

The objective of this class is to introduce students to the Chinese language and culture through relevant topics such as school, family, daily life, and personal preferences. Students will be presented with immediately useful language while emphasizing speaking and comprehension. Course work includes listening, speaking, reading, and writing. Songs, history, poems, and rhymes will be inserted as cultural introductions whenever applicable during the lesson. The course will also explore Chinese cultures and practices in various Asian countries such as China, Taiwan, and Singapore. At the end of this course, students are expected to achieve some oral proficiency in daily conversation.

Students enrolled in Chinese II Honors will have an opportunity to continue developing their listening, speaking, reading, and writing skills. More in-depth relevant topics, coupled with additional vocabulary and grammar, will be included. Students are expected to be comfortable to use the target language for conversation in class. Students are also expected to compose short paragraphs of e-mail, letters, and/or invitations. In this course, students will further explore Chinese cultures and practices in various Asian countries through technology and possible “real life” experiences.

As an introductory course, French I CP presents the skills of listening/understanding, speaking, reading, and writing in a natural sequence. Emphasis is placed on vocabulary building and pronunciation with an accompanying explanation of the fundamentals of French grammar. French culture is presented as part of the classroom procedure, drawing from textbook and supplemental materials.

French II CP continues to explore the French-speaking world. Oral proficiency continues to be emphasized and vocabulary is increased. Units cover such areas as travel, focusing on Paris and other Francophone areas, meals, daily routines, and family life.

In this course, students will study advanced French grammar as well as French history and culture. Communication, listening, reading, and writing skills will also be incorporated throughout the course. Students will be required to communicate in French and the focus of this course – aside from grammar – will be various aspects of French culture and history.
In this course, students will study advanced French grammar as well as French literature and history. Communication, listening, reading, and writing skills will also be incorporated throughout the course. Students will be required to communicate in French and the focus of this course – aside from grammar – will be writing in French and reading French literature and history.

H6153 FRENCH LANGUAGE AND CULTURE - AP
1 Credit Grades 10-12
Prerequisite: French IV Honors

French Language and Culture AP emphasizes the use of the language for active communication, including: having a strong command of vocabulary and structure; understanding spoken French in various conversational situations; reading newspaper and magazine articles, contemporary fiction, and nontechnical writing without the use of a dictionary; and fluently and accurately expressing ideas verbally and in writing. In addition to standard textbooks and anthologies, resources may also include audio and visual materials, newspapers, magazines and contemporary literature. Students are expected to communicate exclusively in French.

H6213 GERMAN I CP
1 Credit Grades 9-12
Prerequisite: German III-Honors

As an introductory course, German I CP presents the skills of listening, speaking, reading, and writing comprehension in natural learning order. Vocabulary building and basic grammar study are also emphasized. Cultural topics are introduced and authentic materials are utilized to stress proficiency in all areas.

H6223 GERMAN II CP
1 Credit Grades 9-12
Prerequisite: German I CP

German II CP focuses on the continued development of verbal proficiency skills, vocabulary growth and cultural understanding. Topics include: German for business, including creating a resume, conducting an interview, and researching job opportunities; wellness; dining; traveling; and reading a German novella. Through the use of many authentic resources students gain a more in depth understanding of German language and culture.

H6233 GERMAN III – HONORS
1 Credit Grades 9-12
Prerequisite: German II CP

German III Honors continues advancing students’ language proficiency in modes of speaking, writing, listening, and reading. In addition to language study, this course focuses on familiarizing students with various aspect of German culture (products, practices and perspectives) through research, presentations, and comparisons, in conjunction with Extr@ video series. Through the Give A Gnome A Home Program, students produce written and spoken works that illustrate their language abilities. They also learn 20th century German history reading the story “Die Lisa”.

H6243 GERMAN IV – HONORS
1 Credit Grades 10-12
Prerequisite: German III-Honors

German IV Honors takes student to the next level of German learning by focusing on the development of analytical, comparative, and creative language skills. Students will engage in topics that thematically mimic the AP German curriculum including environmental impacts, social relationships, youth culture, and social influences. Alongside contemporary themes, students will read, analyze, and interpret German fairytales. In addition, students will experience the historical time period of Eastern Germany with an in-depth perspective through a novella based on a personal story about life during and after the fall of the Berlin Wall.

H6253 GERMAN LANGUAGE AND CULTURE - AP ®
1 Credit Grades 10-12 (Alternate Years)
Prerequisite: German IV Honors
German Language and Culture AP emphasizes the use of the language for active communication, including: having a strong command of vocabulary and structure; understanding spoken German in various conversational situations; reading newspaper and magazine articles, contemporary fiction, and nontechnical writing without the use of a dictionary; and fluently and accurately expressing ideas verbally and in writing. In addition to standard textbooks and anthologies, resources may also include audio and visual materials, newspapers, magazines and contemporary literature.

**H6263 GERMAN CULTURE AND HISTORY THROUGH FILM – HONORS**
1 Credit Grades 10-12 (Alternate Years)
**Prerequisite: German IV Honors**

As a main source of media, film serves to not only tell stories, but more importantly to reflect the thoughts, ideas and culture of a time period. German Culture and History Through Film Honors is more than just a survey of some of the most important German films made. Using these films, students will comprehend, discuss and evaluate the cultural and historical relevance and views presented in written and verbal expression. This course will dramatically increase students’ listening and speaking abilities using real-world media. Students are expected to communicate exclusively in German.

*These courses are offered on a rotating basis. “German Culture and History through Film – Honors” is being offered for the 2020-2021 school year. “German Language and Culture - AP” will be offered for the 2021-2022 school year.*

**H6313 LATIN I CP**
1 Credit Grades 9-12

First year Latin CP is the first step in the process of learning to read ancient classical texts. Basic grammar and vocabulary of Latin are introduced. Students learn to read Latin texts immediately. The readings are based on Roman mythology, Roman history, and Roman literature.

Customs of daily Roman life are also included. Students will also learn about the influence Latin has had on the English language through the study of derivatives.

**H6323 LATIN II CP**
1 Credit Grades 9-12
**Prerequisite: Latin I CP or Latin I CP (Online)**

Latin II CP is a continuation in the process of learning to read ancient classical texts. Some of the more complex structures of Latin grammar will be studied, such as indirect statement and relative clauses. The majority of readings are based on the story of Vergil’s Aeneid. Students will continue their study of daily Roman life within the context of the Latin readings. Students should be prepared to participate in thoughtful, academic class discussion and written responses. Discussion and writing will be in English.

**H6333 LATIN 301: LATIN PROSE – HONORS**
1 Credit Grades 10-12 (Alternate years)
**Prerequisite: Latin II CP**

In this course, students will be introduced to the more advanced topics of Latin grammar such as participles and various uses of the subjunctive in preparation for reading selections of Latin Prose. The course will focus on the life of Julius Caesar and his conquest of Gaul. In addition, students will learn about a variety of literary devices used by the author. Students will read portions of De Bello Gallico in Latin and in English. The importance of Caesar’s place in Roman history will be examined as well as the social and political structure of Rome during Caesar’s life.
In this course, students will be introduced to Latin Poetry, specifically the epic poem. The course will focus on the life of Virgil and his epic poem, The Aeneid. Students will learn about meter and scansion as well as various literary devices used in poetry. The importance of Virgil’s place in Roman history will be examined as well as the social and political structure of Rome during Virgil’s life.

*These courses are offered on a rotating basis. “Latin 302: Latin Poetry – Honors” is being offered for the 2020-2021 school year. “Latin 301: Prose – Honors” will be offered for the 2021-2022 school year.

H6413 SPANISH I CP
1 Credit Grades 9-12
Spanish I CP focuses on beginning grammar lessons, common vocabulary, and an introduction to Spanish-speaking culture. Instruction will be enhanced by materials and other realia. Verbal practice is stressed throughout the course, in addition to the skills of listening, reading, and writing.

H6423 SPANISH II CP
1 Credit Grades 9-12
Prerequisite: Spanish I
Spanish II CP stresses practical communication through various verbal activities, vocabulary acquisition and grammar. Instruction will be enhanced by materials, and other realia. There will be an emphasis on verbal and written interactions with continuous practice of listening, speaking, reading, and writing skills.

H6433 SPANISH III – HONORS
1 Credit Grades 9-12
Prerequisite: Spanish II CP
Spanish III Honors is a study of the finer points of Spanish grammar, while continuing emphasis on oral proficiency, reading, and writing of the language. The semester includes a review of the grammar learned in Spanish II CP and the presentation of practical verb tenses. Communication using the target language is stressed.

H6443 SPANISH IV – HONORS
1 Credit Grades 10-12
Prerequisite: Spanish III Honors
Spanish IV Honors will continue to develop the four basic language skills and stress analysis, interpretation and evaluation of advanced grammar. Practical vocabulary will be utilized for students to apply to everyday situations. Writing activities will consist of prepared and spontaneous assignments. Verbal proficiency is encouraged through reports, debates, and impromptu dialogues. At the conclusion of this course, students will be more prepared for conversation with native speakers and travel abroad.

H6453 SPANISH LANGUAGE AND CULTURE - AP
1 Credit Grades 10-12
Prerequisite: Spanish IV Honors
Spanish Language and Culture AP emphasizes the use of the language for active communication, including: having a strong command of vocabulary and structure; understanding spoken Spanish in various conversational situations; reading newspaper and magazine articles, contemporary fiction, and nontechnical writing without the use of a dictionary; and fluently and accurately expressing ideas verbally and in writing. In addition to standard textbooks and anthologies, resources may also include audio and visual materials, newspapers, magazines and contemporary literature. Students are expected to communicate exclusively in Spanish.

H6503 SPANISH 503: ¡VIVA ESPAÑA! (SPANISH LIFE) – HONORS
H6504 SPANISH 504: AVENTURAS EN LA AMÉRICA LATINA (ADVENTURES IN LATIN AMERICA) - HONORS 1 Credit Grades 10-12

Prerequisite: Spanish IV Honors or Spanish for Heritage Speakers*

Students will study the history and places of interest in South and Central America, controversial governments, and Spanish-speaking Caribbean countries. Current events will drive weekly class discussions while studying contemporary culture. Students will also develop an understanding of how Latin American communities have affected culture in the United States. Highlights will be literary masterpieces of Latin American authors and poets as well as a focus on contemporary musicians. Students will analyze the roles of influential Latin American women, and their continual impact on society. Development of the basic skills - listening, speaking, reading, and writing - is continued with an emphasis on verbal proficiency. Students are expected to communicate exclusively in Spanish.

H6505 SPANISH 505: ESPAÑOL COMERCIAL (BUSINESS SPANISH) – HONORS

Prerequisite: Spanish IV Honors or Spanish for Native Speakers*

This course is designed for students who would like to be able to use Spanish in the business world. Emphasis will be placed on proper business etiquette and correspondence in the Hispanic world. Vocabulary units include the structure of businesses, social services, sales, banking and finance, law enforcement, the legal system, customer service, and management. Students will also learn about the economies of Spain and Latin America. A continual review of Spanish grammar will also be incorporated into lessons, in order to improve fluency. Emphasis will be placed on using authentic materials for listening and reading and using Spanish to communicate effectively in practical business situations through role-play, dialogs and presentations. Students are expected to communicate exclusively in Spanish.

* Students leaving Spanish for Native Speakers must receive a final grade of C- or higher and be recommended by the teacher in order to register for a 500-level course.

H6473 SPANISH FOR HERITAGE SPEAKERS

1 Credit Grades 9-12

Spanish for Heritage Speakers is offered to speakers of Spanish who need to improve their basic language skills, such as reading, writing, spelling, and grammar. Students will expand their vocabulary through reading and writing. Some class time will be devoted to addressing the differences between the English and Spanish languages and some class time will be devoted to cultural issues. The course will be taught exclusively in Spanish and students will be expected to communicate exclusively in Spanish in the class.

Students leaving Spanish for Heritage Speakers must receive a final grade of C- or higher and be
recommended by the teacher in order to register for a 500-level course.

H6473 ESPAÑOL PARA HISPANOHABLANTES
1 Credit Grades 9-12

Español para hispanohablantes es para aquella persona que habla español como primer idioma y necesita mejorar las técnicas básicas del lenguaje como la lectura, la escritura, el deletreo y la gramática. Los estudiantes van a desarrollar su vocabulario a través de la lectura y la escritura. Parte de la clase será dedicada a distinguir las diferencias entre el español y el inglés y parte será dedicada a temas culturales. La clase se enseñará exclusivamente en español y se requiere que los estudiantes se comuniquen exclusivamente en español. Al terminar con éxito el curso de Español para hispanohablantes con una nota de C- o más alta, los estudiantes tienen la oportunidad de matricularse en cualquier curso de Español de nivel 500.
The Senior Option is a privilege for twelfth grade students who are in good academic and discipline standing at the high school. Students who select and qualify for this option will be permitted to come to school after period 1 or leave after period 4, depending on when they are scheduled for this offering. Students who select The Senior Option are not required to register for the full eight (8) credits of course work in grade 12. These students may register for between six (6) and seven and one-half (7.5) credits their senior year. Seniors in this program must schedule a minimum of 3 credits each semester.

- Student Requirements/Criteria for The Senior Option:
  
  - Successfully complete a minimum of 21-credits by the end of the junior year.
  
  - Have a minimum cumulative grade point average (GPA) of 2.0.
  
  - Have his/her own transportation to and/or from school.
  
  - Administrative approval following a review of student discipline and attendance records.

*Registering for Senior Option and meeting the above requirements/criteria does not ensure admittance. Required classes may need to be scheduled during periods 1 and 5 that would prevent a student from scheduling The Senior Option.*
CHAPTER 20
Off Campus & Concurrent College Enrollment Opportunities

DUAL ENROLLMENT

99901 AND 999012 (First Semester)
99902 AND 999022 (Second Semester)
1 Credit (AP Weight) Grades 11-12 only

Selecting Dual Enrollment will allow students to travel to area colleges/technical schools and take courses that will count toward post-secondary goals. Students may select to attend a variety of programs at area colleges and technical schools to get a jump-start on their post-secondary education. Students are responsible for providing reliable transportation, if necessary, and fees associated with the course. Students must be a junior or senior who holds a cumulative GPA of 3.0 or higher. Students may enroll in 1-2 college courses per semester.

Participating Colleges: Harrisburg Area Community College, Elizabethtown College, Lancaster Bible College, Millersville University, Penn State York, PA College of Health Sciences, Thaddeus Stevens College (senior full day program), West Virginia University (online only). Students seeking credit from accredited colleges not listed must seek approval from their grade level principal. Course approval must be sought 3 weeks in advance of HHH’s semester start.

Cost: The student, parent or guardian must pay course costs directly to the college. Typical costs are about a 50% reduction of a traditional student tuition and vary by college.

Course options: Colleges provide an approved course list for high school students that varies from semester to semester. Students typically select general education courses at the college, similar in nature to what a college freshman would take during their first year.

Application Procedure: Students are responsible to fill out the application from their post-secondary institution. They must meet the requirements for the institution to which they are applying and must be accepted into the Dual Enrollment program.

Credits: Students earn 1 high school credit for a 3 or 4 credit college course. Students are advised to check with their prospective post-secondary colleges to see if they will accept the credits earned in Dual Enrollment.

Graduation Requirements: Dual Enrollment courses may be substituted for required core courses in 11th and 12th grades as long as the appropriate Hempfield Department supervisor approves the course.

Scheduling: Students select Dual Enrollment as an elective or alternate during course selection at the high school. If students are eligible, they will then receive an application for the college of their choice and select the college course they wish to take. Once paperwork is completed and returned to the counselor, it will be submitted to the college and reviewed for final acceptance and enrollment. The college will notify the student of acceptance, provide them with a class schedule, and a bill.
The school counselor will try to blend the student’s other Hempfield course requests with their college course(s). Students will be scheduled for their Hempfield courses in the morning and then be released from school to attend their college course(s), or they will attend college in the morning and sign into the high school for their afternoon high school courses.

**Grading:** The course grade earned at the post-secondary partner school will be duplicated and awarded upon successful completion of the course. The letter grade provided on the college transcript from the partner college/university is what is reported on the high school transcript. *Not all colleges grade the same way for example: a student may earn a 99% in the Dual Enrollment class, but the college reports it on the official transcript as an A, not an A+. There are no exceptions with reporting grades for Dual Enrollment.*

College course schedules are available online: [www.pacollege.edu](http://www.pacollege.edu), [www.millersville.edu/registrar](http://www.millersville.edu/registrar), [www.hacc.edu](http://www.hacc.edu), [www.etown.edu/~reg-rec](http://www.etown.edu/~reg-rec), [www.yk.psu.edu](http://www.yk.psu.edu), [https://lbc.edu/undergraduate/admissions/jumpstart/](https://lbc.edu/undergraduate/admissions/jumpstart/), [http://stevenscollege.edu/earlyenrollment/](http://stevenscollege.edu/earlyenrollment/), [www.accesswvu.edu/prospective-students](http://www.accesswvu.edu/prospective-students).

**9011 AND 9012 INTERNSHIP PROGRAM**

1 Credit Grades 11-12

This course provides students with the opportunity to participate in on-site observations of business and professional organizations. The program will provide students with the opportunity to interact with, observe, and assist individuals who are employed in a career of their interest. The intent of the internship is to provide activities that will enable the student to make informed career decisions based on significant knowledge and insights developed during participation. Students are not to be paid for the internship experience.

**9021 & 9022 SCHOOL TO WORK EXPERIENCE**

1 Credit Grades 11-12

The School to Work experience is intended to provide Hempfield High School students with opportunities to develop requisite skills needed for the transition from high school to the world of work.

**A. Eligibility Criteria for Internship & School to Work Experience**

- Open to Juniors and Seniors
- Students must have a 2.0 GPA or higher
- Students must have a good disciplinary record
- Students must have positive attendance record

**B. Placement**

- Students are responsible for securing internship and/or school to work site
- Students request course during course selection process
- Student is not paid for the internship
• Students are paid for school to work
• Student must intern/work a minimum of five hours* each week during the semester
  
  *hours must take place during school day (7:30am-3pm)
• Contract must be completed prior to the first 5 days of the start of semester

C. Grading
A grade will be awarded for the Internship and/or School to Work experience, with one credit noted on the transcript per semester. Course grade will be determined by the following criteria:

• Site Supervisor Evaluation to include hours completed: 100 points

See contract for additional guidelines and responsibilities.

COLLEGE IN THE HIGH SCHOOL

HIST 103-104 History of the United States I & II
1 Hempfield Credit (AP weight) Grades 11-12
6 HACC College Credits

Harrisburg Area Community College’s (HACC) College in the High School (CHS) program enables qualified, capable high school students to enroll in college-level courses that are taught at their high school.

College in the High School students earn dual enrollment credits from both HACC and their high school for approved HACC courses that may satisfy high school graduation requirements. These course credits become part of the student’s permanent HACC record and can count towards a HACC degree program or can be transferred to a number of colleges and universities.

These courses are combined into one semester. Students will receive one HHS credit and 6 HACC credits. The cost per credit is only $30.00. Students must sign up for both courses during course selection as well as complete an official HACC application through Mrs. Romero, Special Programs Counselor. This course is for elective credit, not a required social studies course.

Please refer to the Social Studies’ course offerings sections for detailed descriptions of these courses.