

CARLISLE HIGH SCHOOL

EDUCATIONAL PLANNING GUIDE 2020-2021



Mission Statement

In partnership with students, parents, and the community, the Carlisle Area School District is committed to providing all students with educational and leadership opportunities to develop their intellect and character so that they will accept and meet the challenge of personal responsibility, enabling them to become contributing members of our diverse society. This district shall make every attempt to support a school climate that is based on high expectations and respect for the individuality of all students and staff.

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STATEMENT OF EQUITY

The Carlisle Area School District is an equal opportunity education institution and will not discriminate on the basis of race, color, age, creed, religion, gender, gender-identity, sexual orientation, ancestry, national origin, marital status, pregnancy, disability or any other status protected by law in its activities, programs, or employment practices as required by Title VI, Title IX and Section 504.

No person shall on the grounds of race, color, age, creed, religion, gender, gender-identity, sexual orientation, ancestry, national origin, marital status, pregnancy, disability or any other status protected by law be excluded from participation in or be subjected to discrimination in any program or activity funded in whole or in part by federal funds. Discrimination on the basis of sex or religion is also prohibited in some federal programs.

For information regarding civil rights or grievances procedures, services, activities and facilities that are assessable to and usable by handicapped persons, contact:
Dr. Colleen M. Friend, Title IX Coordinator, Section 504 Coordinator, 540 West North Street, Carlisle, PA 17013, 717-240-6800.

INTRODUCTION

This guide has been prepared to assist students, parents, and school personnel in the complex task of planning an appropriate personal educational program. It contains general information about the academic program of Carlisle High School as well as explanations of subject offerings and graduation requirements.

To plan an effective and realistic educational program, students and parents should take into consideration the student's abilities, career goals, and interests. They should study the entire guidebook looking for all relevant information, and they should carefully read the course descriptions. They should also consider their student's academic records for the past several years. While grades received in middle school should not necessarily dictate the academic program in high school, a review of those report card grades should give a good indication of strengths and weaknesses. Using this information, students can plan a program of studies that meets their needs.

Parents or students who need additional assistance in selecting courses should contact their student's teachers or counselor. All staff members are available to assist in the important task of choosing the right programs for students.

A Parent Course Selection Night has been scheduled for ***Tuesday, January 21, 2020***. The program for parents of current 8th graders will be held in the Swartz Building Auditorium at 6:30 p.m. The program for parents of current 9th, 10th, and 11th graders will be held in the McGowan Building Auditorium starting at 6:30 p.m.

Note:

- In case of inclement weather on January 21, 2020 the make-up date will be January 23, 2020.
- For those parents unable to attend the course selection night at the high school, we will hold a community course selection night at the Bosler Library (158 W. High Street, Carlisle) at 7:00pm on Wednesday, January 22, 2020.

HIGH SCHOOL ORGANIZATION

Carlisle High School consists of three separate buildings located on one campus. The three buildings are: the Emma Thompson McGowan Building, the Gerald L. Fowler Educational Center, and the David L. Swartz Building. There is a typical enrollment of approximately 1500 students. This organizational structure allows students to enjoy the advantages of a comprehensive educational program by taking courses in any of the four buildings.

COURSE SELECTION CALENDAR

The course selection process for students and parents begins in early January. During that month, counselors meet with students and parents to explain the process and to have students select their courses.

- The due date for submission of course requests is January 31, 2020.
- The entire process will be conducted online.
- Students will be instructed on completing this process.

Students (and parents) may change the courses selected providing their abilities and goals demonstrate that the change is necessary and appropriate.

- All requests for changes should be submitted to the student's present counselor.
- The due date for submission of change requests is Monday, June 22, 2020.
- After this date only requests for changes that indicate extenuating circumstances will be honored.

Course alternates are required for all elective courses. When conflicts occur during the scheduling process, alternates are used as replacements. Therefore, it is imperative that students select alternates carefully, and that they provide at least one alternate for each elective. When irresolvable conflicts occur and selected alternates cannot be scheduled, a school official will attempt to contact the student in order to address the conflicts. Under no circumstances can requests for specific teachers or sections be honored.

Please be aware that when you receive your schedule in the summer, every effort has been made to ensure that you have the classes you requested. However, occasionally errors do occur. If there is an error on your schedule, please contact your school counselor immediately.

Adding or Dropping a course once the school year begins:

- There will be a two week drop/add grace period
- A drop/add course form must be obtained from the grade level counseling center
- The form will require a parent/guardian signature, counselor signature, and grade level principal signature
- After the two week drop/add grace period a student schedule may not change

Note:

- Honors / AP courses will follow the process outlined within the Honors / AP Course contract

GRADE ASSIGNMENTS

All Students

Students in grades nine through twelve will be placed in grades according to the total number of course credits earned by the end of the year. There are no exceptions to the following criteria:

To be in **9th grade** a student is assigned on the basis of a certification of promotion or assignment by the middle school principal.

To be in **10th grade** a student must have earned at least 5 major credits including an English credit.

To be in **11th grade** a student must have earned at least 10 major credits including two English credits.

To be in **12th grade** a student must have earned at least 16 major credits and be able to complete all graduation requirements by the end of the regular school year.

CHS GRADUATION REQUIREMENTS

Except - Automotive Technology, Culinary Arts,
Early Childhood Education, Carpentry

Effective: Class of 2020 - 2023

<u>Units of Credit</u>	<u>Course Area</u>
4.0	English
3.0 or 4.0	Social Studies (see note 1)
3.0 or 4.0	Science (see note 1)
3.0 or 4.0	Mathematics (see note 1)
2.0	Arts & Humanities (see note 2)
1.0	Physical Education
0.6	Health I
0.2	Safety Education
0.2	Health II
<u>6.0</u>	Electives
24.0 Minimum Total Credits Required for Graduation	

CHS GRADUATION REQUIREMENTS

Automotive Technology, Culinary Arts,
Early Childhood Education, Carpentry

Effective: Class of 2020 - 2023

<u>Units of Credit</u>	<u>Course Area</u>
4.0	English
3.0	Social Studies
3.0	Science
3.0	Mathematics
1.0	Arts & Humanities (see note 2)
1.0	Physical Education
0.6	Health I
0.2	Safety Education
0.2	Health II
<u>9.0</u>	Electives
25.0 Minimum Total Credits Required for Graduation	

CHS Graduation Requirements

Effective for all Programs and Graduating Classes

1. A minimum of ten credits must be earned in the combined social studies, science, and mathematics areas. (Except students in approved CTE programs of study).
2. Refer to the Arts & Humanities Electives section of this guidebook for a listing of courses that meet this requirement.
3. **All students graduating in the class of 2021 must take and pass (score proficient or advanced) the Keystone Exams in Algebra I, English Literature and Biology I.**

Students who do not pass the above tests will:

- Retest to show proficiency in the respective test or
- Be required to meet other requirements determined by the high school administration to gain proficiency status.

All students graduating in the class of 2022 and beyond must take and pass (score proficient or advanced) the Keystone examinations in Algebra I, English Literature and Biology I.

Students who do not pass the above tests will:

- Retest to show proficiency in the respective test and/or
- Meet requirements outlined in ACT 158 of 2018 (more information will be released to students and parents at a later date).

4. Students who transfer to Carlisle High School enrolling into grade 12:
 - a. May provide out of state end of course test scores to show proficiency
 - b. Students without end of course exam scores in Literature and Algebra I must complete placement tests to allow the high school administration to determine proper course placement (this could involve remediation courses if necessary).
5. Students who transfer to Carlisle High School entering grades 9 - 11:
 - a. A transfer student in grades 9 - 11 will **not** be required to complete the following Keystone Exams (Algebra I, English Literature, or Biology I) – **if** the student provides documentation that, they passed a statewide, standardized End-of-Course (EOC) assessment.
 - i. The student must provide documentation that he/she achieved a passing/proficient score on the high school statewide assessment in mathematics, literature/language arts, or in science required by the state from which the student transferred. This documentation shall satisfy the requirements of the Elementary and Secondary Education Act, 20 U.S.C 6301.
 - ii. The student may also provide documentation they achieved a score of 3 or higher on the following AP exams in the appropriate content area: Calculus AB, AP Calculus BC, AP Statistics, English Language and Composition, English Literature, and Biology, in order to gain proficiency status.
6. Students should remediate course failures in summer school in order to graduate with their class.
7. All students must carry a minimum of five major credits at all times. In addition, they should have classes scheduled for at least twenty-eight periods per week.
8. The administration cannot make exceptions to these requirements.

STUDENT COURSE SELECTIONS

Overview by Grade

A basic grade level overview for the vast majority of student schedules is shown in this section (except for CTE students enrolled in an approved program of study). Counselors will advise students wishing to enroll in a CTE program of study of the courses they must take each year in order to meet their graduation requirements.

Grade 9

English I

U. S. History

Mathematics

Honors Biology – see note 1

GeoEnvironmental Science

Elective 1 - see notes

Elective 2 - see notes

Physical Education - 9

Health I - 9

Notes (Grade 9 only)

- Honors Biology may be taken by ninth grade students; however, summer work and mandatory participation in the CASAC science fair in January are both required of this course.
- All courses taken through Carlisle Virtual Academy may count as required courses or electives as approved by the Board of Education. Students should check with their counselor to determine the classification of courses taken online.

Grade 10

English II

World History

Mathematics

Biology I/Science

Elective 3

Elective 4

Physical Education -10

Safety Education

Grade 11

English III

Civics/AP Social Studies

Mathematics

Science

Elective 5

Elective 6

Physical Education-11

Health II (11th or 12th grade)

Grade 12

English IV

Social Studies/Math/Science
(see note 1)

Elective 7

Elective 8

Elective 9

Elective 10

Physical Education 12

Notes (Grades 10-12)

- Students who completes a CTE programs of study may not be required to have a fourth credit in the area of social studies, mathematics, or science to satisfy the 10 credit total that is required among these content areas for other students.
- All courses taken through Carlisle Virtual Academy may count as required courses or electives as approved by the Board of Education. Students should check with their counselor to determine the classification of courses taken online.

General Information- all students

- The curriculum is reviewed and modified to best prepare graduates to meet their future goals.
- All curricular departments will establish required courses to ensure appropriate coverage of district and state standards.
- Students who satisfactorily complete a special education program developed by the Individualized Education Program (IEP) team shall receive a regular high school diploma. This policy applies if eligible students' special education programs do not otherwise meet all the requirements of Chapter 4 (from Section 4.23 of State Curriculum Regulations).
- To be considered "full time" all students must carry a minimum of 5 major credits plus any necessary minor credits and they must schedule at least 28 periods per week. This applies to all students including those taking an additional virtual course. Only seniors who are in their fifth year of high school shall be considered as exceptions to

this stipulation as evaluated on a case-by-case basis by the high school principal or associate principal.

STATE ASSESSMENTS / EXAMINATIONS

Effective with the class of 2021 and classes 2022 and beyond

All students graduating in the class of 2021 must take and pass (score proficient or advanced) on the Keystone Exams in Algebra I, English Literature and Biology I.

Students who do not pass the above tests will:

- Retest to show proficiency in the respective test
- Students may also be required to meet other requirements determined by the high school administration, to gain proficiency status

All students graduating in the class of 2022 and beyond must take and pass (score proficient or advanced) on the Keystone examinations in Algebra I, English Literature and Biology I.

Students who do not pass the above tests will:

- Retest to show proficiency in the respective test and/or
- Meet requirements outlined in ACT 158 of 2018 (more information will be released to students and parents at a later date).

Students who transfer to Carlisle High School during grades 9-12, see details on page 4 about specific details about state assessments / examinations.

PSAT/NMSQT

Preliminary Scholastic Aptitude Test and National Merit Scholarship Qualifying Test

CASD will fully assume the cost for any 10th or 11th grade student wanting to take the PSAT. Students in grade 11 are strongly encouraged to participate in the PSAT exam as a means to prepare for college entrance exams. Multiple national and local organizations exclusively consider the scores earned in the 11th grade year on the PSAT for scholarship qualification.

AP and HONORS COURSES

Carlisle High School has waved the application process and most prerequisites for AP & Honors courses. These changes were made to give all students access to more rigorous coursework. In addition, Carlisle High School has partnered with the National Math & Science Initiative (NMSI) to provide greater support to our students. NMSI's College Readiness Program provides students in AP math, science, and English courses with:

- **Extraordinarily trained teachers** who receive advanced subject-matter knowledge, mentoring from expert peers and resources to challenge students in engaging lessons.
- **Free student study sessions** led by experts from across the country. They come to the high school!
- **Classroom materials** such as the latest graphing calculators and lab supplies, that bring classwork to life.
- **Reduced fees** for all math, science and English AP exams – the nationally recognized assessments that can earn students widely accepted college credits.
- **Financial awards** for students who earn a 3 or above (on a 5-point scale) on their AP exams in math, science and English.

Notes:

- Students who select AP courses are strongly encouraged to take The College Board Advanced Placement examinations in the spring.
- There are two Grade Point Averages calculated for students: a weighted and an un-weighted grade-point-average. Only courses listed as Advanced Placement and/or Honors will carry an additional value when calculating the weighted grade-point-average.
- A weighted grade point average gives .5 additional quality point value to each Honors and Advanced Placement course. Weighted rankings are done based on these grade point averages.

Sample contract on following page - all Honors and AP (*Math, Science, English, and Social Studies courses*) students must complete. Please note: If a student selects an Honors or Advanced Placement course, a "Student & Parent Agreement for Enrollment in Advanced Courses" form must be completed online by the student and parent. Students will be directed during the Course Selection process where to find this online form.

DUAL-ENROLLMENT OPPORTUNITIES

CHS offers several options for students and currently partners with three universities. For more information about course information or program offerings, students should speak with their counselor.

Notes:

- There may be specific criteria that a student would need to meet prior to being enrolled in either a course or program (obtain a flier from your counselor).
- These courses / programs could require a fee, paid by the student.
- These opportunities are subject to change at any time.

HONORS / ADVANCED PLACEMENT COURSE CONTRACT

The contract will be an online form and students will be directed how to locate it on the district website.

CHS encourages all students to enroll in available Honors and Advanced Placement (AP) classes to enhance their academic experience. Any CHS student may enroll in Honors or AP classes as his or her schedule permits. Honors and AP classes offer a high degree of rigor designed to prepare the student for success in higher academic pursuits. The purpose of an Honors course is to prepare students for college-level work which they will experience in AP classes. AP courses provide college-level instruction and culminate in AP exams that are designed by the College Board. Students who successfully complete AP exams may receive college credit.

- Characteristics of an Honors or AP class are:
 - Student-initiated learning with an emphasis on strong work ethic
 - Rigorous academic content in Honors & AP requiring reading proficiency
 - Require depth and complexity of thought
 - Application of content strategies
 - Consistent use of higher-level thinking skills
 - Assignments that require analytical thinking
 - Required commitment to course inside and outside of classroom
- AP courses differ from regular high school courses in that instructors use advanced curricula that is outlined by the College Board and authorized through the College Board's audit process. Honors courses focus on skill development, habits of mind, and in-depth preparation in a subject area that are necessary to master the skills required to achieve success in AP courses. Other characteristics of advanced courses include content immersion, a fast pace, and assessment of performance at the analysis and synthesis levels.
- While we expect students to be very successful in Honors or AP classes, a close look at the student's total course load and commitments to other activities should be considered when choosing how many of these courses to take during a semester. For some students, the best way to begin moving into these courses is by beginning with one, until they better understand the expectations and time commitments involved. Typically, successful AP students are task-oriented students, proficient readers, and effective time managers. Students who are already overextended with academics or extracurricular activities should seriously consider whether they have the time to devote to an Honors or AP class and/or the number of Honors or AP classes in which they enroll. Outside study time is generally at least one to two times the amount of time spent in class per week.
- CHS strongly believes that Honors and AP courses provide enhanced academic opportunities for students that will assist them in future academic or nonacademic pursuits. At the same time, the District recognizes that students may experience initial surprise or difficulty in managing the increased course requirements. To ensure students allow sufficient time to become acclimated to the classes and what the Honors and AP curriculum can offer, the District expects that any student who enrolls in the Honors or AP class will remain in the course for the entire year. It is essential that the student give his/her maximum effort to succeed.

Applicable to all Honors/AP courses in English, Social Studies, Science, Math, AP Seminar, and AP Research

➤ **Honors / AP – Course Exit Policy:**

- A student may exit an Honors or AP class ***no later than the mid-point of the first marking period.***
- To exit an Honors or AP course the student must:
 - Attend a conference with the student's respective counselor which parents/guardians are strongly encouraged to attend as well.
 - Approval of the grade-level principal is required

Note:

- When a student drops an Honors or AP course, all grades earned in that course follow the student to the other course, including the summer reading/assignment grades if applicable.

Students will be asked to initial each of the statements below to demonstrate their understanding of these expectations:

_____ 1. The demands of an Honors or AP course exceed those of a general college prep course, and I am committed to the extra effort needed to succeed in each course.

_____ 2. I realize that an Honors or AP course is a year-long commitment and it is an expectation that I will not withdraw from this Honors or AP course. I will have up to five weeks into the first marking period (mid-point of first marking period) to withdraw from the course and enroll in a subject equivalent course (if applicable).

_____ 3. I realize that I must abide by the conditions set forth in the course syllabus (e.g. attendance, grading and make-up policies).

_____ 4. After reading the course description for each Honors or AP course, I am confident that I have the skills and dedication necessary to be successful in the course listed on the front side.

Students will be asked to sign this Agreement:

My signature below confirms that I am familiar with the expectations of the Honors or AP course and accept its academic challenges. I agree to devote my best efforts to successfully complete the course. I understand this class offers increased rigor and challenge. I understand that my success in this Honors or AP course is primarily my responsibility. I understand and agree that a schedule change will only be considered prior to the mid-point of the first marking period.

Student Signature _____ Date _____


Parent/Legal Guardian will be asked to sign this Agreement:

My signature below confirms that I have read and am familiar with the course description for the Honors or AP course. I understand that the course requires increased rigor and challenge and I agree to support and encourage my student to successfully complete this course. I will notify the teacher immediately of any concerns I have relating to the Honors or AP course or my student's progress. I understand and agree that my student will only be considered for a schedule change prior to the mid-point of the first marking period. **NOTE: The signature below is in addition to the parent/guardian signature required on the Course Selection Form.**

Parent Signature _____ Date _____

NCAA NATIONAL COLLEGIATE ATHLETIC ASSOCIATION

When planning their course selection, student athletes should be mindful of the requirements of the **NCAA** (National Collegiate Athletic Association.) The NCAA has strict guidelines to "qualify" a student to receive athletic scholarships and/or participate in NCAA Division I or Division II athletics at the collegiate level. Student athletes should review these criteria carefully at www.eligibilitycenter.org.

Three of the main criteria for eligibility include: the number of "core" courses completed, the earned GPA in those "core" courses, and a sliding scale requirement regarding core course GPA and SAT or ACT scores. To help student athletes, **Carlisle High School courses which have been approved as NCAA core courses will have this  icon below them in the Educational Planning Guide.** Please see your counselor with any questions related to NCAA requirements and course selection.

LIBRARY

The library department of the Carlisle Area School District includes a comprehensive library in the Fowler Education Center where reading is viewed as a foundational skill for learning, personal growth, and enjoyment. The library is fully automated and houses more than 44,000 volumes and 20 different periodical titles, as well as 2 networked computer labs, and 32 additional desktop computers strategically placed around the facility. 34 e-readers are available for a 7-day checkout, and the library owns over 1,400 fiction and nonfiction electronic books available online. The library provides access to multiple forms of educational software and multiple on-line information resources.

All students are issued a student ID/library card which allows equitable access to books, reading, and information technology. The library is staffed by one full-time professional librarian, one full-time library manager, one full-time library aide and one part-time aide. The librarian has flexible scheduling to allow collaboration with the entire Carlisle Area School District educational community to develop opportunities for students to practice and foster 21st century information literacy skills.

The high school students concentrate on research skills which are integrated into the district educational plan in conjunction with regular classroom activities. Students are welcome to use the library for research, current event reading, career exploration, computer work and/or leisure during scheduled class times, lunch, and posted before-school and after-school hours. The mission of the Fowler Library is to build a learner who can thrive in a complex information environment.

ASSISTANCE/QUESTIONS

Office Location in Fowler Building – 240-6800, ext. 13805

Dr. Michael Black – Principal, CHS
Dr. Albert Parrillo – Director, Career and Technology Programs

Office Location in McGowan Building - 240-6800, ext. 26835

Mrs. Cynthia Lupold – Associate Principal, Grade 12
Dr. Patricia Buffington - Assistant Principal, Grade 11
Ms. Johanna Jones – Head Counselor
Mrs. Amy Knapp – Counselor
Mrs. Emily McDonald – Counselor
Mrs. Heather Bosnyak - World Language/ELD Program Chair
Ms. Kelly Brent – Mathematics Program Chair
Mrs. Ashley Gogoj - Art and Design Program Chair
Mr. Byron Mikesell - Music Program Chair
Mrs. Samantha Moyer - Science Program Chair
Mr. George Null – Health and Wellness Program Chair
Mr. Kevin Wagner - Social Studies Program Chair

Office Location in Swartz Building - 240-6800, ext. 27805

Mr. Paul Wysocki - Associate Principal, Grade 10
Mr. Luther Green - Assistant Principal, Grade 9
Mr. Barry Adams - Counselor
Mr. Andrew Rice – Counselor
Mrs. Ginger Rotz – Counselor
Mrs. Keely McGeehan - English Program Chair
Mrs. Malinda Mikesell - Reading Program Chair

Office Location in Wilson Middle School - 240-6800, ext. 19805

Mr. Walter Bond – Principal
Mr. Jake Evans – Assistant Principal
Mr. Harold Travis – Head Counselor
Ms. Mary Hey - Counselor

Office Location in Lamberton Middle School - 240-6800, ext. 15805

Mr. Keith Colestock - Principal
Mr. Nick Sadvari – Assistant Principal
Mr. Chris Ail – Counselor
Ms. Erin Hughes - Counselor

Office Location in Administration Office - 240-6800, ext. 17813

Mrs. Jill Condo – Director of Special Education
Mr. Josh Barr – Assistant Director of Special Education

Arts and Humanities Electives

Arts and Humanities is defined as the study of dance, theatre, music, visual arts, language and literature including forms of expression, historical and cultural context, critical and aesthetic judgment and production, performance and exhibition of work.

The following planned courses will fulfill the Arts and Humanities graduation requirement for the class of 2020 and beyond. All students must pass a minimum of two full credits of Arts and Humanities courses in order to meet the graduation requirement.

Please Note:

- Career & Technology students in Automotive Technology, Culinary Arts, Early Childhood Education, and Carpentry Trades must earn one full credit in the area of Arts and Humanities.

Art

Art Exploration
 Digital Media I, II
 Drawing and Painting I, II, III
 Sculpture and Ceramics I, II, III
 AP Art History
 AP Drawing & 2D Studio Art
 AP 3D Studio Art
 *Graphic Arts and Design I, II
 *(Listed in the Career & Technical Education section of the EPG)

World Languages

French I, II, Honors III, Honors IV,
 AP French
 Spanish I, II, Honors III, Honors IV,
 AP Spanish
 German I, II, Honors III, Honors IV,
 AP German
 Chinese I, II
 International Languages and Cultures

Publications

Periscope
 Oracle

English

Creative Writing
 Shakespeare: Page to Stage

Music

Concert Choir
 Bel Canto Singers
 Chamber Singers
 Orchestra
 Introduction to Music Technology
 Music Theory I
 Music Theory II
 Concert Band
 Symphonic Band
 Theatre Experiences
 Musical Theater Experience
 Guitar and History of Rock and Roll
 Piano and Music Theory I
 History of Western Music
 Perspectives of Music in Popular Culture

Special Programs

CPYB
 AP Research
 AP Seminar

ART / DESIGN DEPARTMENT



Art Exploration – Course #021

No prerequisite
Grades 9-12

1 credit
5 pds/wk

Do you like to experiment with art making materials and mediums? Art Exploration is an intro-level course for students who are interested in exploring a variety of art making approaches, and who would like to have more experience in a diverse range of mediums. Students will have the opportunity to explore ceramics, sculpture, drawing, painting, printmaking, and more! All ability levels are encouraged to take this class.

Digital Media I – Course #026

No prerequisite
Grades 9-12

1 credit
5 pds/wk

Are you considering a career in digital media such as animation, photography, illustration, or graphic design? Digital Media is a course designed to educate students on the ever-changing digital world, as well as to provide hands-on experience with industry standard software and equipment. The curriculum covers a wide range of areas to include animation, digital photography, graphic design, and illustration.

Digital Media II – Course #027

Prerequisites: Digital Design or Graphic Design or Photography
Grades 9-12

1 credit
5 pds/wk

Digital Media II is a course designed for students with experience in digital media. Students will have the opportunity to advance their skill set in a range of digital media. Topics covered in Digital Media II include animation, digital photography, graphic design, and illustration. Students will have hands on experience using professional equipment and software. Digital media is a fast growing industry and students will have opportunities to explore careers. If you are interested in advertising, game design, animation, photography, illustration, interior design, or sequential art, this is the class for you!

Drawing and Painting I – Course #034

No prerequisite
Grades 9-12

1 credit
5 pds/wk

Are you interested improving your skills in drawing and painting? Drawing & Painting I is introductory course for students interested in exploring a variety of drawing and painting approaches. Students will learn how to paint and draw people, objects, spaces, and places. Students will experiment with graphite, charcoal, pen & Ink, acrylic paint, watercolor, collage, and more! Drawing and Painting I is the first prerequisite for students who want to continue taking art classes in the Drawing and Painting pathway.

Drawing and Painting II – Course #035

Prerequisite: Drawing and Painting I
Grades 10-12

1 credit
5 pds/wk

Drawing & Painting II is a course for students who want to continue advancing their skills in drawing and painting. Students will have the opportunity to explore a variety of drawing mediums and will focus on painting techniques using watercolor, acrylic, and oil mediums. Students are provided with opportunities to draw and paint from observation and references. Drawing and Painting II is highly recommended for students interested in taking Drawing and Painting III & AP Studio.

Drawing and Painting III – Course #043

Prerequisite: Drawing and Painting II
Grades 11-12

1 credit
5 pds/wk

Are you considering a career in the fine arts? This course is designed for students who have taken Drawing & Painting I & Drawing & Painting II and for students interested in refining and strengthening their drawing and painting skills. Students will draw and paint using advanced techniques and more experimental approaches. Students are provided with continued opportunities to paint from observation and references. In addition, students will develop a body of work that can be used as a portfolio to apply to college. Students are expected to work on assignments outside of class, keep a sketchbook, research ideas and discuss their work, ideas, and inspiration as well as the work of other students and master artists. Drawing and Painting III is required for students who are interested in taking AP Drawing & 2D Studio Art.

AP Drawing and 2D Studio Art (Drawing & Painting III) – Course #044

Prerequisites: Portfolio or Drawing & Painting III
Grade: 12

1 credit
5 pds/wk

AP Studio Art (Drawing & 2D) is designed for advanced art students who are interested in painting and drawing. Students will create a sustained investigation focusing on a central idea. This course is designed to guide students in preparing a portfolio or body of work equivalent to a college level studio course for submission to the College Board. Students must be committed to working outside of the classroom and meeting deadlines. Students are expected to work on assignments outside of class, keep a sketchbook, experiment with materials, research ideas, and discuss their work, ideas, and inspiration as well as the work of other students and master artists.

Sculpture and Ceramics I – Course #037

No prerequisite
Grades 9-12

1 credit
5 pds/wk

Are you interested in building sculptures and working with clay? Sculpture and Ceramics I is an introductory level course that focuses on teaching students hand-building and wheel throwing pottery techniques. Throwing techniques will include centering, throwing, trimming, glazing, and firing. Hand-building techniques will include pinch, slab construction, additive and subtractive methods. Students will also have the opportunity to create sculptures and three-dimensional projects using other materials.

Sculpture and Ceramics II – Course #045

Prerequisite: Sculpture and Ceramics I
Grades 10-12

1 credit
5 pds/wk

Are you interested in improving your skills in sculpture and ceramics? Sculpture and Ceramics II is a course where students will continue to developing their craft by learning new skills and experimenting with a variety of art making approaches. Students will become more advanced in their throwing and hand-building techniques. Students will also have the opportunity to create sculptures and three-dimensional projects using other materials.

Sculpture and Ceramics III – Course #042

Prerequisite: Sculpture and Ceramics I and Sculptures and Ceramics II
Grades 11-12

1 credit
5 pds/wk

Are you interested in learning advanced techniques in sculpture and ceramics? Sculpture and Ceramics III is a continuation and advanced study of concepts which go beyond basic skills learned in Sculpture and Ceramics I and Sculpture and Ceramics II. Students will become more advanced in their throwing techniques and hand-building techniques. Students will also have the opportunity to work more independently to create sculptures and three-dimensional projects of their choice.

AP 3D Studio Art (Sculpture & Ceramics III) – Course #028

Prerequisites: Sculpture & Ceramics III

Grade: 12

1 credit

5 pds/wk

AP Studio Art (3D) is designed for advanced sculpture and ceramics. Students will create a sustained investigation focusing on a central idea. This course is designed to guide students in preparing a portfolio or body of work equivalent to a college level studio course for submission to the College Board. Students must be committed to working outside of the classroom and meeting deadlines. Students are expected to work on assignments outside of class, keep a sketchbook, experiment with materials, research ideas, and discuss their work, ideas, and inspiration as well as the work of other students and master artists.

AP Art History – Course #048

Recommendations: B average in English and social studies

Grades 11-12

1 credit

5 pds/wk

Do you enjoy interpreting art? Art History is a course on art from throughout history and from around the world. The focus will mainly be on Western or European Art History. Students will learn about art history through class discussion, readings, visuals, videos, research, and lecture. This course is recommended for students interested in taking the Advanced Placement Art history exam. For success in Art History, students should have maintained a B average or higher in English and social studies. An understanding of historical events that influenced the ideas, styles, and techniques of artists as well as an ability to express this understanding in short answer and essay form is essential for a student to do well in the course and on the AP exam.

CAREERS & TECHNOLOGY DEPARTMENT



Career and Technical Education

Since 1938, the career and technical education programs offered at Carlisle High School's Center for Careers and Technology have prepared students for post-secondary education, Military Service, and employment within their chosen field of interest. Student training focuses on career and technical skills with an emphasis on education and training beyond high school. This combination is necessary to develop a skilled and knowledgeable workforce to meet the needs of employers now and into the future. Students who enroll in a career and technical education program complete workforce development training. Students can acquire college credits through state and local articulation agreements with post-secondary schools, can earn industry certifications, and can participate in work-based learning experiences.

Carlisle High School's Center for Careers and Technology provides opportunities to complete course work in a variety of areas including Accounting, Automotive Technology, Communications and Broadcasting Technology, Computer Networking, Carpentry, Culinary Arts, Early Childhood Education, Engineering, Family and Consumer Sciences, Health Careers, Marketing, and Work-Based Learning. Carlisle High School offers these programs as approved Pennsylvania Department of Education Programs of Study focusing on career pathways. Students may also take some of the career and technical programs as electives.

SOAR Programs of Study College Credit for Career and Technical Programs

SOAR is a statewide program developed through the Pennsylvania Department of Education, by the Bureau of Career and Technical Education.

SOAR stands for Students Occupationally and Academically Ready.

SOAR Programs of Study are State approved Career & Technical Education Programs that credit skills and tasks learned in high school or a Career and Technical Center (CTC) toward a college degree, diploma or certificate program. All of Carlisle CTE programs are State approved.

Students earn these free college credits while at the Carlisle High School by completing the SOAR Program of Study requirements. If you are a high school graduate who enrolls at Post-secondary school in the same technical program, you can start with between 3 to 12 credits already earned, saving yourself time and money!

The main steps you need to take are:

- Sign up for a career and technical education program and finish the program
- Earn a high school diploma
- Earn a minimum Grade Point Average (GPA) of 2.5 (80%) on a 4.0 (100%) scale in the technical core courses
- Complete the secondary school component of the approved PDE Program of Study
- Achieve proficiency on all tasks of the approved PDE Program of Study (POS) Competency Task List with technical teacher signature
- Achieve competent or advanced level on the secondary school end-of-program assessment that is appropriate for the approved PDE Program of Study
- Provide an Official Student Transcript
- Provide Industry Certifications earned

Automotive Technology

Students in the Automotive Technology Concentration apply technical knowledge and skill in servicing and maintaining automobiles and light trucks. Students completing this program may obtain ASE (Automotive Service Excellence) certification. As a recognized Program of Study by the Department of Education, students can take advantage of many statewide articulation agreements to gain post-secondary credits.

Automotive Technology – Three (3) Year Program – 25 Credits for Graduation CIP #47.0604-Program of Study

Period	9	10	11	12
1	English I	English II	English III	English IV
2	Algebra I	Geometry	Algebra II	Civics
3	Geo- Environmental	Biology I	World History I	Chemistry or Physics
4	PE/Health I	PE/Safety Education	PE Health II (11 th or 12 th)	PE Health II (11 th or 12 th)
5	US History I	Automotive Technology I-AM Session	Automotive Technology II- PM Session	Automotive Technology III-PM Session
6	Foundations of Technology	Automotive Technology I-AM Session	Automotive Technology II- PM Session	Automotive Technology III-PM Session
7	Arts & Humanities Credit	Automotive Technology I-AM Session	Automotive Technology II- PM Session	Automotive Technology III-PM Session
CTE Total Hours CATS: 1,080 Carlisle: 1,445.7		481.90 hours	481.90 hours	481.90 hours

- Students must make-up failed courses in summer school to complete this program of study.
- Students must pass all required Keystone Exams and/or complete remediation course.
- Students should plan to take the Arts and Humanities requirement in ninth grade.

Automotive Technology I – Course #901

Recommended prerequisite: None

Grades 10-12

Certification Goal: NATEF Certification, SP2 Certification

Required Equipment: students need to purchase **BEFORE** the start of school. (1) Work boots-*steel toe not required* (2) Work Uniform (black poly/cotton blend pants and black t-shirt).

3 credits

15 pds/wk

This is the first course of a three-year program designed for students to enter the automotive career field. In Level I, students receive an overview of automotive systems, safety, basic hand and power tools, measurements and precision measuring tools. Students learn to navigate computerized service manuals and learn about career choices available in the automotive industry. An extensive emphasis is placed on vehicle suspension, chassis, and braking systems.

Automotive Technology II - Course #902

Prerequisite: Auto Technology I minimum competencies

3 credits

Grades 11-12

15 pds/wk

Certification Goal: NATEF Certification, PA State Inspection License, PA Enhanced Emission Testing License, S/P2 Certification

Required Equipment: students need to purchase **BEFORE** the start of school. (1) Work boots-*steel toe not required* (2) Work Uniform (black poly/cotton blend pants and black t-shirt).

This is the second course of a three-year program designed for students to enter the automotive career field. In Level II, students study automotive safety, diagnostic and trade repair and specific hand tools, with an extensive emphasis on automotive electrical/electronics, vehicle emissions and engine performance. Students participate in the PA State Inspection Licensing course.

Automotive Technology III - Course #903

Prerequisite: Auto Technology II minimum competencies

3 credits

Grade 12

15 pds/wk

Certification Goal: NATEF Certification, PA State Inspection License, PA Enhanced Emission Testing License, S/P2 Certification

Required Equipment: students need to purchase **BEFORE** the start of school. (1) Work boots-*steel toe not required* (2) Work Uniform (black poly/cotton blend pants and black t-shirt).

The final year of the automotive technology program focuses on safety and advanced diagnostic skills/training. Students learn course work leading to PA State Safety Inspection License and PA Emission Testing License. Emphasis is on Job seeking skills as well as the skills required to maintain employment. Students may be eligible for employment through Cooperative Education, AYES, or an Apprenticeship Training Program.

Business Academy

Business careers are in high demand in today's competitive and global marketplace. Furthermore, an understanding of management, marketing, entrepreneurship, accounting, personal finance, and technology are necessary to succeed in any career. All students enrolled in business accounting or marketing courses can learn basic skills as well as career training in accounting, business ownership, and marketing strategies. Additionally, business students are eligible to acquire college credits through local and state articulations with state and regional post-secondary schools. Opportunities are available for students to develop skills and competence in business through participation in managing and marketing the high school's Bison Corner-a student run enterprise, and competing in events sponsored by DECA an Association for Business Students.

Students with a serious interest in pursuing a business related career and/or post-secondary opportunities can take courses toward the completion of a Program of Study in Accounting-PDE CIP-Code 52.0302 or Marketing-PDE CIP Code 52.1801. Students, who complete the proper scope and sequence of academic and business courses and score proficient on the National Occupational Competency Testing Institute (NOCTI) exam, are eligible for "completer" status in the Accounting or Marketing career and technical education programs. These students receive the Pennsylvania Skills Certificate; a nationally recognized credential issued by the Commonwealth of Pennsylvania, and can take advantage of statewide and local articulation agreements to receive college credit. A Capstone Cooperative Education or Career Exploratory experience is available to seniors who pursue the Accounting or Marketing programs of study.

Business Academy
Marketing –CIP #52.1801-Program of Study
Accounting Technology- CIP #52.0302-Program of Study
Four-Year Program – 24 Credits for Graduation

Period	9	10	11	12
1	English I	English II	English III	English IV
2	Algebra I	Geometry	Algebra II	*Math-Any advanced math course
3	Geo-Environmental	Biology I	Chemistry or Physics	Arts and Humanities Elective
4	PE/Health I	PE/Safety Education	PE Health II (11 th or 12 th)	PE Health II (11 th or 12 th)
5	US History I	World History I	Civics	Entrepreneurship or Business Management & Global Economic Markets
6	Graphic Arts and Design I	Business Management & Global Economic Markets or Marketing I	Marketing I or Business Management & Global Economic Markets	Marketing I or Marketing II or Accounting
7	Introduction to Business and Personal Finance	Introduction to Business and Personal Finance or Graphic Arts and Design I or II	Entrepreneurship or Accounting or Marketing II	Career Experience-Business Focus or Marketing or Entrepreneurship
CTE Total Hours based on 183 days 50 minute periods: 1,320		305 class hours 55 DECA hours 360 total	305 class hours 55 DECA hours 360 total	457.5 hours

- Students must earn a minimum of ten credits in the combined social studies, science and mathematics areas.
- Students must make-up all failed classes in summer school to complete this program of study.
- Students must pass all required Keystone Exams and/or complete remediation courses.
- Students should plan to fulfill the Arts and Humanities requirement in ninth and tenth grade.

Accounting – Course #119

No prerequisite

1 credit

Grades 11-12

5 pds/wk

The problem solving and financial analysis skills learned in Accounting are applicable to any career field. Eventually, all people manage money and time as part of family and job responsibilities. Doctors, entrepreneurs, government leaders, even artists or technicians moving into management positions need financial training. Accounting students learn the fundamentals needed to track and analyze financial information for a Sole Proprietorship, including making important business and personal financial decisions based on accounting reports. In addition, students will learn about financial statement preparation, analysis of merchandisers and corporations, and business income taxation. Students will also learn about Intuit QuickBooks. Students will apply their knowledge and skill towards managing the school store-the Bison Corner.

Business Management and Global Economic Markets - Course #150

No prerequisite

1 credit

Grades 10-12

5 pds/wk

Students enrolled in this half semester about course will start with either Business Management or Global Economic Markets, similar set-up to course # 141. Business Management introduces the processes and concepts involved in business. The course provides core content applicable to all aspects of business and encompasses the practical applications of management theory. Students learn about management functions including planning, organizing, and leading from multiple management perspectives.

Economics and world markets will give students a greater understanding of economics ranging from the viewpoint of the individual consumer or small business owner to the global economy. Students will study the law of supply and demand, types of business, labor unions, government finances and influence on the economy, money and prices, and inflation and deflation cycles. The course relates history and politics to the study of economics.

Entrepreneurship – Course #131

No prerequisite

1 credit

Grades 11-12

5 pds/wk

This course offers a challenging introduction on how to start a business, including learning about small business management and marketing. Students learn about businesses structures and business decision-making processes. Students will solve problems by completing real world case studies. Students prepare a business plan using various school and work-based resources. Students will learn about employability skills in the workplace and apply course content to marketing, managing, and promoting the Bison Corner, the high school store.

Introduction to Business and Personal Finance – Course #141

No prerequisite

1 credit

Grades 9-12

5 pds/wk

This course is a two-teacher course, divided by semester. The first semester students will start with either, the Introduction to Business part of the course, or the Personal Finance part of the course. The second semester students will finish the part of the course that they did not

complete in the first semester. Details for each part is below. The course is one full credit and students need to complete the whole course to earn the credit.

In the Introduction to Business part of the course, students will learn about and explore career opportunities in business. Students will learn about all aspects of business and its role in the nation's economic system. Units covered include the economic system, economic role of business, the role of consumers, banking, office practices, business technology and communication, and human resource management. Students also learn about business law, finance and management and learn about topics covered in the other business courses offered at the high school. Business simulations and projects are an integral part of the course. Students benefit from the expertise of guest speakers from all aspects of the business world. In the Personal Finance part of the course, students will learn about the impact of individual choices on occupational goals and future earning potential. The Personal Finance part of the course provides a foundational understanding for making informed financial decisions. Relevant topics covered include career planning, managing money, saving and investing, spending wisely, financial risk management, identify theft, buying a car and using debit and credit cards. Students learn to solve real-life problems, and use documents and forms from today's consumer-oriented culture. Activities include designing personal and household budgets, using checking and savings accounts, investing for retirement, managing debt and credit and completing insurance and tax forms. Hands-on simulations are an integral part of the course.

Marketing I: Sales, Sports, and Entertainment Management and Marketing Basics – Course #157

Prerequisite: Introduction to Business and Personal Finance
Grades 10-12

1 credit
5 pds/wk

This course focuses on product and service marketing functions. Students will learn the fundamental elements needed to design and promote a retail store or service entity. Students will study market research strategies and consumer behavior and buying patterns. Major areas of study include advertising, visual merchandising and display and selling. In addition, the course examines basic concepts of employee/employer relationships, leadership models, and fundamental management skills. Students will apply these concepts in our student run store the Bison Corner.

In the Sports & Entertainment Marketing part of the course, students will learn about the sport and entertainment industries, and their impact on local communities, and products. In addition, instruction includes distribution systems and strategies, pricing considerations, marketing-information management, selling, product-service management, and promotion. Students acquire an understanding and appreciation of the need for planning and problem solving current issues in the sport and entertainment markets. Potential marketing events such as students attending a DECA Marketing Career Day with the 76ers in November or working with sports organizations such as the Hershey Bears or other will be part or completing the course.

Marketing II: Advanced Marketing Principles and Business Planning – Course #158

Prerequisite: Marketing I
Grades 11-12

1 credit
5 pds/wk

This course builds upon the principles taught in Marketing I and is an advanced course for students interested in taking their marketing skills to the next level. Students will develop an action plan for marketing a company. This course focuses on students learning about advanced marketing principles, learning about careers in marketing and learning about the importance of entrepreneurship in our economy. A major emphasis is on the following: marketing principles, economics, market research, sales, marketing career pathways, and entrepreneurship. As part of the course, students will take part in DECA. This organization offers many benefits and exciting activities for marketing students including competitions, awards, scholarships, job opportunities and travel. Students will apply the skills they are learning in the course to managing and marketing our school store the Bison Corner.

Careers and Technology Elective Courses

Family & Consumer Science

The Family and Consumer Science (FCS) courses are yearlong four days a week courses open to grades 9–12, except where indicated. All courses stress an outcome-based philosophy with an emphasis placed on practical, hands-on experiences, projects, labs, and activities. Students do not need to pay for supplies, and can keep their finished project. Students cannot enroll in more than one foods class (Foods and Baking / Foods and Nutrition) per school year, but they may enroll in more than one FCS course.

Child Development - Course #615

Prerequisite: FCS-Skills for Success recommended
Grades 9-12

1 credit
4 pds/wk

Students will learn the decisions and responsibilities involved in parenting and in working with children. The course explores child growth and development from conception to adolescence and provides an in-depth study of the physical, social, emotional and intellectual development of infants, toddlers, and preschool children. Students study the relationship of play, safety, healthcare, and discipline to a child's growth and development. Students who are interested in pursuing careers in human services, nursing, pediatrics, care of the physically and/or mentally challenged, or elementary education should consider this course. Opportunities are available to complete observations and assignments in the high school's preschool program. *This course is highly recommended to students planning to enter the Early Childhood Education program in 10th grade or the Health Careers Academy in 11th grade.*

Contemporary Living Skills - Course #616

No prerequisite
Grades 11-12

1 credit
4 pds/wk

Students will learn to think about independent life after high school. Aspects of contemporary life such as personality development, career exploration, communication, relationships with family and friends and significant others, marriage, parenthood, decision-making, crisis management, budgeting, and personal finance are explored. In this experiential course, practical learning activities enhance student preparation for adult life.

Family and Consumer Science: Skills for Success - Course #617

No prerequisite
Grades 9-10

1 credit
4 pds/wk

This FCS survey course is for students who desire to make the most of themselves and improve their ability to achieve success in life. Hands-on projects and lab opportunities focus on the areas of child development and family relations, foods and nutrition, clothing and textiles, housing and interior design, and consumer awareness. These experiences also help students to select additional Family and Consumer Science courses that focus on one of the above areas. Students develop skills in caring for children, interpersonal relationships, nutrition and meal preparation, constructing and caring for clothing, determining the costs involved in renting and furnishing an apartment, evaluating housing options, and making careful consumer decisions to maximize standard of living. *This course is highly recommended to students planning to enter the Early Childhood Education program in 10th grade or the Health Careers Academy in 11th grade.*

Foods and Baking - Course #622

No prerequisite
 Grades 9-10

1 credit
 4 pds/wk

This course focuses on studying the basics of baking and food preparation. Students gain knowledge and understanding of functions of ingredients in recipes, while learning skills that increase their success in the kitchen. Students will learn the proper uses of equipment and consumer skills. There are many lab opportunities offered in this course where time management, teamwork, and the ability to follow directions. Students will make cakes, cookies, pies, and other desserts, as well as soups, salads, and casseroles. *This course is highly recommended to students planning to enter the Culinary Arts program in 10th grade.*

Foods and Nutrition - Course #623

No prerequisite
 Grades 10-12

1 credit
 4 pds/wk

This course invites students to experience food preparation techniques with an increased skill level. Through labs, students demonstrate time management and organizational skills along with the ability to plan and prepare meals with culinary appeal. They also develop an appreciation for the importance of nutrient contributions in foods and the dietary impact on good health. Students learn to make appetizers, soups and salads, countless baked goods and main dish buffets with chicken, pork, and beef dishes as well as meatless entrees. An emphasis is on using kitchen appliances such as steamers, woks, fondue pots, microwave ovens and more. Join FCS for that gourmet touch to creative cooking and be the one that creates a terrific smell of apple pie, chocolate baked goods, teriyaki from a stir-fry, or the aroma of homemade bread!

Transitioning into Life Beyond High School - Course #635

Formerly Special Children/Special Adults

Prerequisite: Child Development or FCS Skills for Success
 Grades 10-12

1 credit
 4 pds/wk

This class is for students who want to learn and work with students in a Life Skills support level. Regular Education students who have a passion for working with others will work one on one or in small groups with Life Skills students. The IEP team will select the Life Skills students and the FCS teacher will select Regular Education students using an interview process while considering graduation requirements.

The goal of the class is to prepare students to live semi to full independent lives. In addition to learning the necessary skills to live outside their guardian's home and/or provide independence within the home. Topics for discussion are as follows: Money Management, Relationship Skills, Housing Options, Community Connections, Meal Preparation, Interviewing Skills, Job Opportunities, Social Skills, Interpersonal Skills, and Real-Life Applications. The class also includes field trips, guest speakers, community outreach, and site visits.

Carpentry

Students enrolled in Carpentry program learn the fundamentals of residential and commercial construction. The program enables students to earn a variety of industry related certifications including Associated Builders and Contractors, Bobcat Safety, Forklift Operator, Scissors Lift, and OSHA safety. Students must purchase boots, work clothes and a tape measure. As a recognized Program of Study by the Department of Education, students can take advantage of many statewide articulation agreements to gain post-secondary credits.

Carpentry – Three (3) Year Program – 25 Credits for Graduation CIP #-46.0201-Program of Study

Period	9	10	11	12
1	English I	English II	English III	English IV
2	Algebra I	Geometry	Algebra II	Civics
3	Geo-Environmental	Biology I	World History I	Chemistry or Physics
4	PE/Health I	PE/Safety Education	PE Health II (11 th or 12 th)	PE Health II (11 th or 12 th)
5	US History I	Carpentry I-AM	Carpentry II-PM	Carpentry III-PM
6	Foundations of Technology	Carpentry I-AM	Carpentry II-PM	Carpentry III-PM
7	Arts & Humanities credit	Carpentry I-AM	Carpentry II-PM	Carpentry III-PM
CTE Total Hours CATS: 1,080 Carlisle: 1,445.7		481.90 hours	481.90 hours	481.90 hours

- Students must make up failed classes in summer school to complete this program of study.
- Students must pass all required Keystone Exams and/or complete remediation courses.
- Students should plan to take the Arts and Humanities requirement in ninth grade.

Carpentry Trades I - Course #905

Recommended prerequisite: None

Grades: 10-12

Certification goal: ABC Credential (Assoc. Builders and Contractors)

Required equipment: boots-work clothes-tape measure

3 credits

15 pds/wk

Carpentry Trades I is the first course in a three-year sequence. Students learn the fundamentals of both the residential and commercial construction occupations. Much of the instructional time is spent working on assigned projects designed so the fundamental operations of construction are learned including, use of hand and power equipment, safety, construction styles, craftsmanship, blueprint reading basics, trade mathematics, and team-building skills.

Carpentry Trades II - Course #906

Prerequisite: Carpentry Trades I-minimum competencies

Grades: 11-12

Certification goal: ABC Credential

Required equipment: boots-work clothes-tape measure

3 credits

15 pds/wk

Carpentry Trades II continues with instruction in the Associated Builders and Contractors curriculum. Classroom instruction builds upon the competencies mastered in the previous year and provides broad experiences in the areas of carpentry, masonry, cabinetry, heavy

construction, and interior systems. This course emphasizes safety, artisanship, and professionalism.

Carpentry Trades III - Course #907

Prerequisite: Carpentry Trades II-minimum competencies

Grade: 12

3 credits

Certification goal: ABC Credential-Bobcat Safety-OSHA Safety

15 pd/wk

Forklift Operators Certificate, Scissor Lift Operators Certificate

Required equipment: boots-work clothes-tape measure

Instruction targets the more advanced areas of construction. Students pursue commercial or residential specialties. In the commercial area, instruction includes form construction, finish construction, reinforced concrete, metal framing, and advanced blueprint reading. Theory emphasizes commercial construction methods; practical work consists of specialized work/projects. Those selecting residential construction concentrate primarily on residential framing construction techniques. Theory relates to the practical experience acquired through numerous lab and field experiences. Basic instruction includes advanced floor, wall, ceiling, and roof framing. Instruction also centers on materials, fasteners, and tools. Students focus on learning trade ethics, safety, cooperation, and leadership. Students demonstrating trade and professional competencies may be eligible for a Capstone Cooperative Education experience in the carpentry-construction trades industry.

Communications Technology

Courses in the Communications Technology: Broadcasting-Graphics program provide opportunities for students to apply knowledge and skills in the field of multimedia technology. Instruction in the program includes audio/visual technology, troubleshooting techniques, computer operation and maintenance, data transmission and management, oral and written communication, concept development, layout and design, computer graphics, image capture, audio, video, web-related technologies and animation. Students utilize state of the art computers, cameras, software and CASD's television studio to produce a daily television program called HERD TV. Opportunities exist for students to create video projects for a variety of internal school needs. There are also video production opportunities with on-location production in the form of live streams of school events of several kinds. Students can also create banners, signs, paper products and other promotional items using state of art digital press technology available in the high school's Graphics Arts lab. The program follows the Pennsylvania Department of Education's approved scope and sequence for Communications Technology; therefore, a capstone cooperative education experience is available to students in the senior year. As a recognized Program of Study, students can take advantage of numerous statewide and local articulation agreements to gain post-secondary credits.

Communications Technology – (4) Year Program – 24 Credits for Graduation CIP #10.9999-Program of Study

Period	9	10	11	12
1	English I	English II	English III	English IV
2	Math	Math	Math	*Math-Any advanced math course
3	Geo-Environmental	Biology I	Chemistry or Physics	Psychology or Sociology (recommended)
4	PE/Health I	PE/Safety Education	PE Health II (11 th or 12 th)	PE Health II (11 th or 12 th)
5	US History I	World History I	Civics	Arts & Humanities Credit
6	Graphic Arts I	Broadcasting I	Broadcasting II	Graphic Arts II
7	Exploring Video Production	Broadcasting I	Broadcasting II	Capstone: 2-3 credits
CTE Total Hours: 1,320	305 hours 55 Skills hours	317.2 class hours 55 Skills hours 372.2 total hours	317.2 class hours 55 Skills hours 372.2 total hours	Between 481 to 633 hours

- Students must make-up failed classes in summer school to complete this program of study.
- Students must pass all required Keystone Exams and/or complete remediation courses.
- Students need a minimum of ten credits in the combined social studies, science and mathematics areas.

Exploring Video Production - Course #943

No prerequisite

Grades 9-12

Grade 9 enrollment is subject to seat availability.

1 credit

5 pds/wk

Exploring Video Production is an introductory course that provides students with experiences to enhance communication skills and further their knowledge of broadcasting. Students learn about careers in the broadcasting and television production industry by operating professional equipment utilized in the trade to create introductory projects associated with video production. Students provide minimal support to Carlisle High School's daily news program, HERD TV.

Broadcasting I - Course #944

Prerequisite: Exploring Video Production

Grades 10-12

Projects will require filming AFTER SCHOOL events

2 credits

10 pds/wk

Broadcasting I is an in-depth course in which students learn broadcasting terminology and the skills necessary to use the broadcasting equipment. Students also learn the basics of producing shows including videography, editing, graphics, and other essential production skills; all while executing projects designed to serve the needs of Herd-TV. Students are prepared to pursue post-secondary educational goals toward careers in the communications industry and produce and direct HERD TV.

Broadcasting II - Course #945

Prerequisite: Broadcasting I

Grades 11-12

Projects will require filming AFTER SCHOOL events

2 credits

10 pds/wk

Broadcasting II further develops the skills acquired in Broadcasting I by providing in-depth exposure to studio operations. Students explore creative film styles and integrate this knowledge with new theories of production. This hands-on learning experience allows the self-starting student to explore new ideas in television production. Broadcasting II, students learn this through projects designed to please an external third party. With guidance, they will source a customer or client, negotiate a contract, conduct themselves publicly in a professional manner, and deliver a product that pleases the client. The course further prepares students for the pursuit of careers in communications, television, and film.

Graphic Arts and Design I - Course #949

No prerequisite

Grades 9-12

Required equipment: apron

1 credit

5 pds/wk

Graphic Arts and Design I students explore and learn about the third largest manufacturing industry in the United States. Students study ways to design their own artwork and follow through to a finished print production. Projects produced include calendars, book covers, greeting cards, mouse pads, t-shirts and more. Students develop an understanding of the importance of safe work habits and learn the importance of being able to work individually and as part of a team. Units of instruction include job planning and layout, desktop publishing, graphic arts design, image assembly and bindery and finishing operations. The course also includes a survey of the major printing processes of lithography, screen print, and vinyl cutting. Students develop an understanding of the purpose and history of the graphic arts industry and become familiar with its impact on society. *Students who are planning to complete the Communications Technology program should enroll in this course.*

Graphic Arts and Design II - Course #951

Prerequisite: Graphic Arts and Design I

Grades 10-12

Required equipment: apron

1 credit

5 pds/wk

Graphic Arts and Design II provides students with the technical skills and practical experience to prepare and produce printed communications using offset, screen, and digital technologies. Students learn the fundamentals of graphic design and use software applications including Adobe Illustrator, In-Design, Photoshop, and to prepare electronic files for output. Students will learn job planning and layout. Students will learn designing a product (artwork) and follow through to finish printing; print production of business cards, letterheads, booklets, posters, and sign making. Students will learn digital-media printing with larger-format printing, decals, static cling, and posters. Students will learn screen-printing including single and multi-color print. Students will learn desktop publishing for creating business cards, letterhead, corporate identity, calendar, and magazine covers. Students will learn bindery finishing including trimming, folding, padding, and stitching and much more. Students also investigate career options that include job shadowing, employability skills and college options. Advanced students have the opportunity to work with "real" clients on "real" projects for the school and non-profit community, under the supervision of their instructors. Students develop a portfolio of printing projects. *Students who are planning to complete the Communications Technology program should enroll in this course.*

Computer Systems Networking

With the advent of the Internet and the related increase in the use of computers in the world, individuals with skills in computer technologies are in great demand. Support in the form of computer networking, operating systems, troubleshooting, and repair is in particularly high demand. Carlisle High School offers the training to earn certifications in the following areas: networking (Cisco-CCNA), PC operations, maintenance and repair (A+), and workstation and server operating systems (MCSE). Students may take classes with or without certification goals in mind or complete the entire Information Technology sequence in preparation for a career or post-secondary education in an information technology related major or entry level IT positions. Regardless of the choice, students entering these courses will experience instruction and hands-on training that is “cutting edge” and “state-of-the-art”. As a recognized Program of Study by the Department of Education, students can take advantage of many statewide articulation agreements to gain post-secondary credits.

Computer Systems Networking (4) Year Program – 24 Credits for Graduation CIP #11.0901-Program of Study

Period	9	10	11	12
1	English I	English II	English III	English IV
2	Algebra I	Geometry	Algebra II	*Math-Any advanced math course
3	Geo-Environmental	Biology I	Chemistry or Physics	*Science-Any advance science course
4	PE/Health I	PE/Safety Education	PE Health II (11 th or 12 th)	PE Health II (11 th or 12 th)
5	US History I	World History I	Civics	
6	Foundations of Technology or Honors Intro to Engineering or AP Computer Science Principles	Honors Intro to Engineering or AP Computer Science Principles	AP Computer Science or Honors Intro to Engineering Or Computer Integrated Manufacturing	AP Computer Science or HU Raspberry Pi Capstone Cooperative Education or Capstone IT Intern: 2 credits
7	IT 1 = IT Essentials	IT 2 = Cisco Networking Part I	IT 3 = Cisco Networking Part II	IT 4-Workstation/ Server Operating Systems
CTE Total Hours: 1,320	305 hours 55 Skills hours	317.2 class hours 55 Skills hours 372.2 total hours	317.2 class hours 55 Skills hours 372.2 total hours	469.5 hours

- Students need a minimum of ten credits in the combined social studies, science and mathematics areas.
- Students must make-up all failed classes in summer school to complete this program of study.
- Students must pass all required Keystone Exams and/or complete remediation courses.

AP Computer Science Principles and AP Computer Science A

See the Math Department section for course descriptions (page 65)

Satisfies Computer System Network Hours and qualifies as a Math Credit

Raspberry Pi

See the Math Department section for course description (page 66)

Satisfies Computer System Network Hours and qualifies as a Math Credit

IT I - Essentials - Course #7025

No prerequisite

1 credit

Grades 9-12

5 pds/wk

Grade 9 enrollment is subject to seat availability

Certification Goal: A+ Computer Technician

The IT Essentials course focuses on the content and skills needed for the A+ computer hardware and software certification. Students learn information technology and data communications in an exploratory format. Students will develop the necessary skills to enter the IT field by building a computer, installing the operating system, adding peripherals, and receiving an overview of networking. The course is both a content and lab-oriented course that stresses laboratory safety, working in a team environment, and strategies to provide effective technical training and support.

Note:

The following Cisco Networking Academy Program courses are one-year options; yet provide the ability for a student to earn their CCNA. After the completion of the Cisco Networking Part I course, students can sit for their INTRO exam and upon successful completion of the Cisco Networking Part II course can sit for their ICND exam. Achieving successful scores on both the INTRO and ICND exams, students will earn their CCNA certification.

IT II - Cisco Networking Part 1 - Course #7000

Recommended prerequisite: IT Essentials, algebra skills

1 credit

Grades 10-12

5 pds/wk

Certification goal: INTRO exams towards CCNA (Cisco Certified Networking Associate)

This course provides students with classroom and lab experience in current and emerging networking technology. Students will configure computers for networking, build small home based networks, and install wireless networks. Instruction includes safety, network terminology and protocols, standards, Open Systems Interconnect (OSI), cabling, Transmission Control Protocol/Internet Protocol (TCP/IP) addressing, dynamic routing, router configuration, network design, and the functions of a network administrator. This course is a prerequisite to Cisco Networking Part II.

IT III - Cisco Networking Part 2 - Course #7020

Prerequisite: Cisco Networking Part I

1 credit

Grades 11-12

5 pds/wk

Certification goal: ICND Exam towards CCNA (Cisco Certified Networking Associate)

This course provides students with additional classroom and lab experience in current and emerging networking technology. Students will focus on preparing for their CCNA certificate and in preparing them to acquire a position in the networking field and/or to continue with post-secondary educational goals in the field. The course covers advanced topics related to the previous Cisco Networking Part I course with an emphasis on troubleshooting. The course includes advanced network design, configuration, and installation.

Note: To obtain CCNA Certification, a student must successfully complete both Cisco Networking Part I and Part II over a two-year period.

IT IV – Workstation/Server Operating Systems - Course #7029

Prerequisite: Current IT students will be given priority.

Grades 10-12

Certification goal: Microsoft Certified Professional

1 credit

5 pds/wk

This course prepares students for certifications as Microsoft Certified Professionals (MCP's) in both desktop PC's and Server operating systems. This operating system is for computer networking. Professionals with these certificates are in high demand.

IT Internship Program – Course codes vary by program and number of class periods. Please see your counselor for information.

Prerequisite: IT I, II, & III complete. IT IV completed or enrolled.

Grade 12

1-3 credits

5-15 pds/wk

The in-house IT intern position is available to a limited number of IT students who have completed or are in their final year of the IT program. The intern will be responsible for assisting the IT students as they proceed through the program. This will include...

- a. PC assembly and repair, configuration, maintenance, and troubleshooting.
- b. Cisco router and switch configuration and trouble shooting.
- c. network design, construction, troubleshooting, and repair.

The successful candidate will be required to have knowledge of all of the above topics and needs pre-approved by the instructor.

**** Some interns may be required to take part in the student run helpdesk for the student population****

Capstone Internship with Information Technology Program - Course codes vary by program and number of class periods. Please see your counselor for information.

Prerequisite: Instructor Permission

Grades 11-12

2 credits

10 pds/wk

This internship experience is available to students to intern with the information technology program providing technical and training assistance. A meeting with both the IT program instructor and the Cooperative Education Coordinator is required prior to enrollment.

Culinary Arts

The expanding hospitality industry continues to provide an increasing job market for individuals with training in the culinary field. The Culinary Arts program is a three-year program, certified by the American Culinary Federation and designed to provide students with a current and practical view of the culinary workplace. Students learn industry level theory and skills to become a food service, bakery/pastry chef or culinary professional. Students cater special functions, participate in selected community events, complete the ServSafe industry certification, and work in the student-run café.

Culinary Arts – Three (3) Year Program – 25 Credits for Graduation CIP #12.0508-Program of Study

Period	9	10	11	12
1	English I	English II	English III	English IV
2	Algebra I	Geometry	Algebra II	Civics
3	Geo-Environmental	Biology I	World History I	Chemistry or Physics
4	PE/Health I	PE/Safety Education	PE Health II (11 th or 12 th)	PE Health II (11 th or 12 th)
5	US History I	Culinary Arts I PM	Culinary Arts II AM	Culinary Arts III AM
6	Arts & Humanities Credit	Culinary Arts I PM	Culinary Arts II AM	Culinary Arts III AM
7	Foods & Baking (recommended)	Culinary Arts I PM	Culinary Arts II AM	Culinary Arts III AM
CTE Total Hours CATS: 1,080 Carlisle: 1,445.7		481.90 hours	481.90 hours	481.90 hours

- Students must make-up failed courses in summer school to complete this program of study.
- Students must pass all required Keystone Exams and/or complete remediation courses.
- Students should plan to take the Arts and Humanities requirement in ninth grade.

Culinary Arts I - Course #930

Grades 10-12

3 credits

Required equipment: chef uniform (2), pocket thermometer, hat

15 pds/wk

Cost to student: approximately \$85.00 (two uniforms, 1 hat, 1 thermometer)

All first-year students learn about the safe service of food. Students learn basic nutrition, customer service, dining room and banquet service, and the proper use of commercial equipment and small wares.

Culinary Arts II - Course #931

Prerequisite: Culinary Arts I

3 credits

Grades 11-12

15 pds/wk

Required equipment: chef uniform, pocket thermometer, hat

Second-year students review and build on skills introduced in the first year such as knife skills, food preparation, cooking techniques, and safety and sanitation practices. Students rotate positions throughout the kitchen and learn culinary mathematics.

Culinary Arts III - Course #932

Prerequisite: Culinary Arts II

Grade 12

Required equipment: chef uniform, pocket thermometer, hat

3 credits

15 pds/wk

Third-year students receive practical experience by managing all aspects of a 60-seat school restaurant to include menu planning, the use of standardized recipes to control food costs, ordering and receiving practices, recognition and use of various types of table service. Students also receive industry certification by taking the ServSafe course and exam.

Early Childhood Education

The Early Childhood Education program is for students who are interested in pursuing careers working with Pre-K through elementary education. Students enrolled in this program also work in the program's pre-school program. As a recognized Program of Study by the Department of Education, students can take advantage of many statewide articulation agreements to gain post-secondary credits.

Child Care and Early Childhood Education Three (3) Year Program – 25 Credits for Graduation CIP #19.0708-Program of Study

Period	9	10	11	12
1	English I	English II	English III	English IV
2	Algebra I	Geometry	Algebra II	Social Studies: Civics
3	Geo- Environmental	Biology I	Chemistry	Social Studies: (Psychology or Sociology is recommended for this career area.)
4	PE/Health I/Family Living	PE/Safety Education	PE	PE/Health II
5	Social Studies- U.S. History	Early Childhood Education I AM	Early Childhood Education II PM	Early Childhood Education III PM
6	Arts and Humanities credit	Early Childhood Education I AM	Early Childhood Education II PM	Early Childhood Education III PM
7	Elective: Child Development recommended	Early Childhood Education I AM	Early Childhood Education II PM	Early Childhood Education III PM
CTE Total Hours CATS: 1,080 Carlisle: 1,445.7		481.90 hours	481.90 hours	481.90 hours

- Students must make-up failed courses in summer school to complete this program of study.
- Students must pass all required Keystone Exams and/or complete remediation courses.
- Students should plan to meet the Arts and Humanities requirement in ninth grade.

Early Childhood Education I - Course #919

Grades 10-12
No Prerequisite

3 credits
15 pds/wk

This course introduces students to the field of childcare and early childhood education. The course focuses on the development of young children from three years through five years as well as how to create lessons for art, music, math, science and storytelling, and how to design a bulletin board and how to guide children's behavior. Students investigate careers in the field so they can learn about becoming an effective early childhood educator. Students will observe and help in an infant and toddler classroom for several weeks. Work begins on the Professional Resource File for the Child Development Associate certificate issued at the end of the senior year. Participation in a child development lab is a significant component of the course.

Early Childhood Education II - Course #920

Grade 11-12

3 credits

Prerequisite: Early Childhood Education I

15 pds/wk

Study continues on how to identify and guide child behavior issues, transitioning techniques, curriculum planning, how to write a parent newsletter, infant through school age development, communicating with parents and creating and maintaining a safe and stimulating classroom environment using appropriate multicultural materials, equipment and toys. Investigating school-age programs is also a part of the course. Students will observe and help in an elementary classroom for several weeks. Work continues on the Professional Resource File for the Child Development Associate certification issued at the end of the senior year. Participation in the child development lab continues.

Early Childhood Education III - Course #921

Grade 12

3 credits

Prerequisite: Early Childhood Education II

15 pds/wk

The emphasis in level three focuses on agencies that help early childhood educators, theories behind child development, curriculum planning, and setting up a preschool classroom. Students will participate in Infant and Toddler First Aid and CPR training. Students will observe and help in a special education classroom for several weeks. Students participate in the NOCTI assessment and finish work on the Professional Resource File. Students may also participate in a Cooperative Education experience at a local childcare center. Students can earn a Child Development Associate certificate upon completion of the course.

Engineering Technology

This program prepares individuals to apply knowledge and skills in the engineering field. Instruction includes, but is not limited to, safety, ethics, power, problem solving, teamwork, engineering graphics, automated systems, fundamental electronics and manufacturing systems as well as adhering to the Science, Technology, Engineering and Mathematics (STEM) Initiative. Courses marked with PLTW are part of the Project Lead the Way program for Science, Technology, Engineering, and Mathematics (STEM).

The Engineering Technologies courses are full year courses open to students in grades 9-12. All courses emphasize an outcome-based philosophy, providing students with hands-on experiences while offering valuable preparation for post-secondary opportunities in engineering related career fields. Instruction focuses on the emerging technologies found in business and industry. Some courses may have project fee (\$10-\$20) for students who want to keep their course projects.

Engineering Technologies/Technicians – Four (4) Year Program – 25 Credits for Graduation CIP # 15.9999

Period	9	10	11	12
1	English I	English II	English III	English IV
2	Math	Math	Math	Civics
3	Geo-Environmental	Biology I	World History I	Chemistry or Physics
4	PE/Health I	PE/Safety Education	PE Health II (11 th or 12 th)	PE Health II (11 th or 12 th)
5	US History I	Honors Civil Engineering and Architecture	Honors Principles of Engineering	Honors Digital Electronics (Offered 2020) or Cooperative Education Experience in Engineering
6	Honors Intro to Engineering or Foundations of Technology	Honors Intro to Engineering or Foundations of Technology or Aerospace Engineering	Honors Principles of Engineering	Honors Engineering Design and Development
7	E-CAD or Architectural Engineering and Design	E-CAD or Architectural Engineering and Design	Honors Computer Integrated Manufacturing or Honors Civil Engineering and Architecture	Honors Engineering Design and Development
CTE/CATS Total Hours: 1,320 Carlisle: 1,701	305 hours	457.5 hours	469.7 hours	469.7 hours

- Students need a minimum of ten credits in the combined social studies, science and mathematics areas.
- Students must make-up all failed classes in summer school to complete this program of study.

- Students must pass all required Keystone Exams and/or complete remediation courses.

Aerospace Engineering (PLTW)

See the course description in the Science section of this book (page 79)

Satisfies Engineering Hours and qualifies as a Science Credit

Architectural Engineering and Design- Course #612

No prerequisite

1 credit

Grades 9-12

5 pds/wk

Architectural Engineering and Design includes the study and design of residential structures. Students explore various types of home designs and construction methods. AutoCAD and Revit drafting and design software is used by students to develop three-dimensional computer models to create physical models, plans, and virtual walk-throughs of their designed structures. Students will experience the architectural and engineering design process from conception to finished product using 3D modeling and prototyping technologies.

Foundations of Technology - Course #601

No prerequisite

1 credit

Grades 9-12

4 pds/wk

Foundations of Engineering Technology is an introductory course for students who have an interest in engaging in problem solving and engineering activities using tools, materials and equipment. Students work with wood, metal, plastic composites, and other materials while learning to use various woodworking and metal working tools such as table saws, lathes and welders. Equipment and materials are using, along with mathematical and scientific concepts, to solve technological problems. Students complete projects in the area of manufacturing, fabrication, robotics and electronics. We recommend *this introductory course to students planning to enter the Engineering or Automotive Technology or Carpentry programs.*

Honors Introduction to Engineering (PLTW) – Course #146

Pre-requisite: Successful completion of Algebra I

1 credit

Grades 9-12

5 pds/wk

Are you naturally curious? Do you enjoy math and science? Are you interested in pursuing a career in an engineering related occupation? If so, the Project Lead the Way-Pathway (PLTW) to Engineering Program can help you meet your goals. The PLTW Pathway to Engineering Program is a sequence of courses, which follows a proven hands-on, real world, problem-solving approach to learning. Students learn and apply the design process, acquire strong teamwork and communication skills, and develop critical thinking and problem solving skills. Students explore various career opportunities, learn the steps and principles of the design process and use computers to design and analyze products, systems and structures. In addition, students build and test models and prototypes, experiment with 3D technologies, and earn college credits while attending high school.

E-CAD (Engineering-CAD-Design) - Course #607

No prerequisite

1 credit

Grades 9-12

4 pds/wk

We recommend that students who **have not taken** Algebra I to take this course in place of Honors Introduction to Engineering Design (PLTW). Students who complete this course will take Honors Principles of Engineering as the next step in the Engineering course sequence. This course is taught at slower pace than Honors Introduction to Engineering because students will first need to learn some of the math concepts taught in Algebra I for use in Engineering.

This course provides students with a broad view of the product development process, including basic skills in sketch techniques and understanding the importance of design as well as study of STEM principles. They will learn CADD practices including 3D modeling and will participate in design and problem solving in the construction and testing of several project based activities.

Students will learn and be able to describe the product development process and account for its conditions and terms. Students will learn and be able to use basic sketching techniques to communicate ideas, plan, implement and present design projects. Students will use Autodesk Inventor to design products with moving parts, create solid models, produce realistic rendering, working drawings and simple animations of a product. *We recommend this course for students planning to enter the Engineering and Carpentry programs in tenth grade.*

Honors Principles of Engineering (PLTW) – Course #147

Prerequisite: Successful completion of Either 146 or 607 or teacher recommendation 2 credits
Grades 11-12 10 pds/wk

Students will explore a wide range of engineering topics including mechanisms, the strength of structures and materials, and automation. A focus will be on developing skills in problem solving, research, and design, while learning strategies for design process documentation, collaboration, and presentation. Students, with teacher recommendation, will work in the Carlisle Engineering Learning Lab (CELL), to design and develop products for students and teachers. Working in CELL can also be set up as a work base learning experience separate from this or other engineering courses. Note this course is two periods so students have time to complete projects.

Honors Civil Engineering and Architecture (PLTW) - Course #148

Prerequisite: None 1 credit
Grades 10-12 5 pds/wk

Students will learn important aspects of building and site design and development. Students will apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software. Students will also develop essential skills such as collaboration, problem solving, creative and critical thinking, communication, and perseverance.

Honors Engineering Design and Development (PLTW) – Course #149

Prerequisite: Successful completion of at least 2 Engineering courses 2 credits
Required: Instructor approval 10 pds/wk
Grade 12

The knowledge and skills students acquire throughout PLTW Engineering come together in Engineering Design and Development capstone course as students identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards. Completing Engineering Design and Development to prepare students to take on any post-secondary program or career. Students, with teacher recommendation, will work in the Carlisle Engineering Learning Lab (CELL), to design and develop products for students and teachers. Working in CELL can also be set up as a work base learning experience separate from this or other engineering courses. Note this course is two periods so students have time to complete projects.

Honors Digital Electronics (PLTW) Course #144

Prerequisite: Principles of Engineering, Algebra 2 or higher recommended but not necessary. 1 credit
Grades 11-12 5 pds/wk

This course examines the fundamentals of electronic circuits and devices used to detect, process, and control electrical signals. The course continues the study and application of semiconductors and linear electronic circuits introduced in Electrical Technology. It also introduces students to digital concepts and circuitry used in automation, mechatronics, robotics, computers and telecommunication systems. Students will work individually and collaboratively on project based labs, computer simulations, and hands on robotic activities.

Honors Computer Integrated Manufacturing (PLTW) – Course #145

Pre-requisite: Honors Introduction of Engineering

Grades 11-12

1 credit

5 pds/wk

In this course, students will work in small groups in order to complete a product utilizing the manufacturing process. Students will utilize jigs /fixtures to speed up the production process. Students will use Mass production techniques in the manufacturing of the product. Students will apply engineering principles during all phases of production. Students will use problem-solving techniques and work in a team process in all phases of production. This course will have students learn industry safety standards upon passing an OSHA certification test. Students will use the safety information during the course while utilizing the hand tools, power hand tools, and machines in the manufacturing lab.

Health Careers Academy

Courses in the Health Careers Academy are for juniors and seniors who plan to pursue further study and/or employment in the medical field. Students may take the classes as electives or complete the entire scope and sequence of academic and technical classes as approved by the Pennsylvania Department of Education. A series of one credit and multiple credit courses explore such topics as career opportunities in medicine, medical terminology, infection control, aseptic techniques, exercise and nutrition, anatomy and physiology, laboratory procedures, OSHA regulations and basic clinical skills. Clinical education is an integral part of the program during the senior year as students' can choose to experience career medical interests in the Health Careers lab and through internships with local health care organizations, including hospitals, nursing homes, veterinary clinics and medical offices. As a recognized program of study by the Pennsylvania Department of Education, students can earn college credit and industry certifications in first aid and medical technology while still attending high school.

Health Related Occupations (2) Year Program – 24 Credits for Graduation CIP #51.9999-Program of Study

Period	9	10	11	12
1	English I	English II	English III	English IV
2	Algebra I	Geometry	Math	Any higher level math course-recommended
3	Geo-Environmental	Biology I	Honors Anatomy & Physiology	Chemistry or Physics Honors Anatomy & Physiology if not taken in Junior year.
4	PE/Health I	PE/Safety Education	PE Health II (11 th or 12 th)	PE Health II (11 th or 12 th)
5	Social Studies	Social Studies	Social Studies	Medical Terminology and Procedures II
6	Elective: FCS Skills for Success	Elective: Child Development or Life After High School	Introduction to Medical Careers	Allied Health Practicum or Capstone
7	Arts & Humanities Elective	Arts & Humanities Elective	Medical Terminology and Procedures I	Allied Health Practicum or Capstone
CTE Total Hours: CATS: 720 Carlisle: 913			456 hours	456 hours

- Students should consider taking four years of math and science.
- Students must make-up all failed classes in summer school to complete this program of study.
- Students must pass all required Keystone Exams and/or complete remediation courses.

Introduction to Medical Careers - Course #640

Prerequisite: Completed Biology I

Grades 11 or 12

1 credit

5 pds/wk

Introduction to Medical Careers provides students with a comprehensive overview of the career opportunities available in the health care industry. Students gain an understanding of the academic and technical aptitudes, as well as the professionalism, needed to work in a health related occupation. An in depth study of the legal and ethical issues unique to the medical profession along with instruction in safety and body mechanics, OSHA regulations, communication procedures, human development, and infection control are essential to the course. Visits to health care organizations and instruction from health science and medical professionals supplement course content. The expectation is that students participate in job shadowing experiences as they become available.

Medical Terminology and Procedures I - Course #650

Prerequisite: Completed Biology I

Grades 11 or 12

1 credit

5 pds/wk

Medical Terminology and Procedures I is an introduction to the essential practices relevant to every career pathway in the Health Care industry. Topics include medical terminology, aseptic techniques, infection control, body mechanics, body structure and function, exercise and activity, fluids and nutrition, skin care, vital signs and rehabilitation. Instruction involves theory and clinical practice within the classroom laboratory. Students complete the first aid, CPR and AED certifications. Visits to area health care settings and instruction from medical professional's supplement course content. The expectation is that students participate in job shadowing experiences as they become available.

Medical Terminology and Procedures II - Course #651

Prerequisites: Medical Terminology & Procedures I and

Honors Anatomy & Physiology

Grade 12

1 credit

5 pds/wk

Medical Terminology and Procedures II is a continuation of the essential practices relevant to every career pathway in the medical profession. Students use the skills learned in the level one course to advance their understanding of medical terminology and essential procedures. Greater in depth knowledge is gained in the areas of rehabilitative medicine (physical therapy, occupational therapy, athletic training, nutrition, exercise science, and personal training).

Health Career Lab Intern-Course #656

Prerequisites: Teacher Approval; concurrently enrolled

in Medical Terminology and Procedures II

Grade 12

1 credit

5 pds/wk

Students who are in Medical Terminology and Procedures II may participate as a lab intern. Students will be responsible for assisting the instructor with hands on skills in a Medical Terminology and Procedures I course. Students will be required to possess and demonstrate soft skills along with the hard skills of a health care professional. Students will be required to maintain a journal and log of their experiences. They will provide support with demonstrations and lab preparations for lower level students. Students will prepare and deliver a lecture/project on a topic related to current course content each marking period. Student lab interns will also assist with and create exam review materials for students of the Medical Terminology and Procedures I course.

Health Careers Work Based Learning Experiences

Emergency Services Academy (Cycle A) – Course #645 (Offered 2020-2021)

Prerequisites: Teacher Approval/Interview

3 credits

Requirements: Students must provide transportation

15 pds/wk

Cost to student: None

Grades 11-12, grade 10 requires teacher recommendation

Through a partnership with the Carlisle Fire Department and Cumberland Goodwill Emergency Medical Services, students will participate in a yearlong program earning entry-level certifications in fire department, rescue, and emergency medical service operations. Students will experience the basics of the incident command system, traffic and utility emergencies, and basic principles of homeland security.

Students will complete close to 226 hours of instruction and participate in agency internships where they will be able to observe emergency calls from the dispatch center, a fire department, or emergency medical service perspective. They will learn lifesaving hands-on skills using fire, rescue, and ambulance equipment.

Upon successful completion of this course, students will possess certificates in three of the four required firefighter certifications and an emergency medical response certification to be able to make meaningful contributions to their community in the event of an emergency. Students can apply this foundational knowledge towards seeking careers in medicine, public safety and government, manufacturing and logistics, or utility work. Students wishing to complete these certificates are encouraged to participate in the Cycle B course, offered every other year. Meeting times are from 12:03-2:45pm.

Emergency Services Academy (Cycle B) – Course #655 (Offered 2021-2022)

Prerequisites: Teacher Approval/Interview, students who did not attend Cycle A will graduate with limited certifications but can still take this course.

Requirements: Students must provide transportation

3 credits

15 pds/wk

Cost to student: course is \$825 and the textbook is \$150 (possible scholarships)

Grades 11-12

Through a partnership with the Carlisle Fire Department, Cumberland Goodwill Emergency Services, and Harrisburg Area Community College, students will participate in a yearlong program providing certifications as an Emergency Medical Technician and Emergency Management Professional. This course includes CPR and AED use, the foundations of emergency medical response and treatment of the sick and injured, incident command basics, and introduces the basic concepts of emergency management and emergency operation centers. Those students who have completed the Emergency Services Academy, Cycle A, in previous years will also be able to earn certifications as an interior firefighter and at the operations of basic vehicle rescue. For those who did not take Cycle A, students will participate in internships with emergency medical service agencies to complete their knowledge.

Upon completion of the program, students are eligible to test for Pennsylvania Department of Health and National Registry of EMT certifications as an Emergency Medical Technician-Basic. This certification is required for employment as an EMT throughout the commonwealth and can transfer to many states. EMT certification is useful for those who seek further careers in medicine, nursing, occupational health and safety, and local government services.

All students will receive 272 hours of instruction, with those who completed cycle A receiving an extra 72 hours of content as part of this program. For students who have completed Cycles A and B, they will possess all required minimum certifications to serve as an interior firefighter in the commonwealth of Pennsylvania. Meeting times are from 12:03-2:45pm.

Certified Nursing Assistant (CNA) Program - Course #652

Prerequisites: Teacher Approval/Interview

3 credits

Requirements: Students must provide transportation

15 pds/wk

Grade 12 ONLY

Through a partnership with Carlisle Regional Medical Center and Harrisburg Area Community College, students can complete the 120-hour course in preparation for the state's CNA exam at Carlisle High School. Students begin the program by exploring the different departments at Carlisle Regional Medical Center to gain insight about their medical science interests. Then, the five-week intensive study explores the role of the nursing assistant and provides training in the essentials of patient care. Students can expect to complete clinical hours at local nursing homes during after school and weekend hours. Daily homework assignments are an essential part of the course. Students who successfully pass the state exam and are 18 years of age can expect to be gainfully employed CNAs while still attending high school.

Students must bring documentation of the following requirements to the first class: Physical exam, PPD tests, Criminal History Record Information, FBI Report (if you have NOT been a resident of PA for the past 2 years), Influenza Vaccination Record, all-white scrubs, and a form of Identification. Students are responsible for all tuition and fees, estimated at approximately \$1,000.00. Often, there is scholarship money available through the Center for Careers and Technology, to offset the direct costs of the program. The class runs Monday-Friday from 12:30 pm to 4:00 pm most days. Students will receive a calendar the first day of class and the expectation is for all students to attend all scheduled classes and clinical experiences. Upon completion of the course, the expectation is that all students will register for and take the state registry exam.

Holy Spirit Hospital Program - Course #653

Prerequisites: Teacher Approval/Interview

2 credits

Requirements: Students must provide transportation

10 pds/wk

Grade 12 ONLY

Through a partnership with Holy Spirit Hospital, students can complete a medical science career exploratory program in a hospital setting. This intensive nine-week program affords students an in-depth look at health careers through job shadowing assignments in the different departments of Holy Spirit Hospital. Journal activities and a reflective presentation at the conclusion of the program are essential elements of the experience. Once finished at Holy Spirit, students pursue internships related to their medical science interests.

Work-Based Learning Programs

The Center for Careers and Technology offers additional experiences outside of the school setting for students interested in learning about careers. Work-based learning is a structured method of instruction, combining school-based classroom learning with productive work-based learning in an occupation matching the student learner's academic and career objectives. Work-based learning involves a planned partnership with specified connecting activities and responsibilities among students, parent/guardians, schools, employers, labor organizations and government. Carlisle High School has five different types of programs; they are Architectural-Construction-Engineering (ACE) program, capstone cooperative experience, capstone internship experience, career internship experience, and diversified occupations. To be eligible students need to attain a grade of "C" or higher in all their academic, career and technical, and elective courses.

Application Process for all Work-based Learning Programs

1. Students need to identify a specific area appropriate for career training and complete an application for admission for any of the above listed work-based learning programs.
2. Parents or guardians sign the application. Then the student needs to turn it in to the Cooperative Education Coordinator.
3. The Cooperative Education Coordinator review the applications.
4. The students' school counselor reviews the students' schedule and credits to ensure they have the credits needed for graduation.
5. Students need to locate a suitable training site for his or her experience. The Cooperative Education Coordinator is available to assist or consult in the search for a training site.
6. The Cooperative Education Coordinator notifies students, parents, principals, counselors, and the Director of Careers and Technology of the training arrangements.
7. The Cooperative Education Coordinator meets with the student to complete all necessary arrangements including the signing of a cooperative education (diversified or capstone) contract and a list of (tasks) competencies to be achieved through the training.
8. Students typically receive notification of approval by the end of April.
 **Exception Architectural, Construction and Engineering ACE Program has a separate application, see cooperative education coordinator.

General Requirements for all Work-based Learning Programs

- Students will sign a training agreement outlining the rules of the program.
- Students must maintain passing grades during their work based learning experience. The Cooperative Education Coordinator reviews grades every three weeks; students who have failing grades will be placed on probation for three weeks.
- Students who fail to maintain passing grades after this probationary will be removed from the program.
- Students' schedules will be based on his or her training site work schedule and the flexibility of the educational schedule.
- Students are required to submit weekly logs of activities relative to agreements and training plans.
- Student must complete the Regional Employability Certificate process.
- Students complete school-based learning activities including career awareness, career exploration and counseling, and a career objective.

Work-based Learning Program Courses

Architecture-Construction-Engineering (ACE) – Course #151

Prerequisite: Internship Application through Work-based Learning

.5 credit

Requirements: Students must provide transportation

2 pds/wk

Grades 10 - 12

ACE is an **after school program** that introduces you to careers in architecture, construction management, engineering and other disciplines. The ACE Mentor Program is driven by the committed and enthusiastic participation of volunteer mentors who are practicing professionals in their respective field. You will visit professional offices, job sites and other relevant locations. You will discuss the same issues, and perform the same tasks, as if you worked in the industry. ACE gives you a practical hands-on view of how abstract concepts get transformed into the buildings that make up our everyday reality. As a participant, you will join a team of other students led by adult mentors who are practicing industry professionals. ACE isn't about merely describing specific professions; it's about immersing you in the profession by engaging you in actual building projects.

To enroll in the ACE Program, students must see the Cooperative Education Coordinator and complete an application, due in September. The ACE program begins in October and meetings are held one time per week from 4:30-6:30 at Cumberland Area Vocational Technical School in Mechanicsburg. Credit is based on completion of the program. Transportation to and from Cumberland Perry AVTS in Mechanicsburg is the responsibility of the student.

Capstone Cooperative Education Experience – Course codes vary by CTE program and number of class periods. Please see your counselor for information.

Prerequisite: Approval by CTE instructor, the Cooperative Ed

Coordinator and Director of CTE

2-3 credits

Requirements: Students must provide transportation

10-15 pds/wk

Grade 12

Students who are seniors and who have met all of the required competencies in their Career and Technical Program can do a cooperative education experience. Through cooperative education, students “cap off” their formal in-school career and technical education with a related employment experience at a school-approved, work-based learning site. Students need approval from their CTE instructor and by the Cooperative Education Coordinator and Director of CTE. Students receive school credit and wages for their experiences. Students must attend school in order to go to work on any given day.

Capstone Internship Experience - Course codes vary by program and number of class periods. Please see your counselor for information.

Prerequisite: Approval by the CTE instructor

the Cooperative Education Coordinator and Director of CTE

1-3 credits

Requirements: Students must provide transportation

5-15 pds/wk

Grade 12 and grades 10-11 requires teacher recommendation

This is similar to the Cooperative Education Experience with the exception that it is an unpaid experience. Students who are seniors and who have met all of the required competencies in their Career and Technical Program can do an internship experience. Students need approval from their CTE instructor and by the Cooperative Education Coordinator and Director of CTE. Students must attend school in order to go to work on any given day.

Career Internship Program - Course codes vary by program and number of class periods. Please see your counselor for information.

Prerequisite: Proposal submission and approval by the Cooperative Education Coordinator / Counselor / Grade Level Principal

1-2 credits

Requirements: Students must provide transportation

5-10 pds/wk

Grade 12 and grades 10-11 requires teacher recommendation

This program is for students who are planning to enter higher education in anticipation of preparing for a professional career. Students interested in this program will submit a proposal indicating how participation in an internship would benefit them in reaching their career objectives. Only seniors who are able to meet all requirements for graduation may select this program. Students will submit weekly reports of the activities in which they participated at their site. A year-end summary report is also required. Students who select this course will need to find a suitable school-to-work site within their chosen profession; however, the Cooperative Education Coordinator, if requested, can provide assistance. The Cooperative Education Coordinator must approve all internship sites.

Diversified Occupations - Course codes vary by program and number of class periods. Please see your counselor for information.

Prerequisite: Successful application to the Cooperative Education Coordinator

2-3 credits

Concurrent enrollment: Workforce Education

10-15 pds/wk

Requirements: Students must provide transportation

Grade 11 or 12

This work-based program is for students with an interest in an occupation not currently offered by the Center for Careers and Technology, or programs who are at capacity or hardship for students who need work. Students can work in any occupation; students need to be receiving a wage, with a minimum of working 15 hours per week. This worked based learning program allows students to work in a variety of occupations such as in warehousing, food services, and retail stores.

Workforce Education - Course #133

Students in Diversified Occupations must take this course concurrently.

1 credit

Grades 11 or 12

5 pds/wk

Workforce Education prepares students for experiences in the world of work. Students receive instruction in career exploration, consumer education and employability skills. Other areas covered include banking, credit, insurance, taxes and money management. Students learn job seeking skills. The course also incorporates topics and concepts needed to help students deal with all aspects of their work-based learning assignments. Completion of a Regional Employability Certificate, endorsed by area Chambers of Commerce, and the OSHA Career Safe Certification are requirements of the course. Enrollment in this course is limited to students enrolled in the Diversified Occupations program.

ENGLISH DEPARTMENT



Explanation of Program Options

Students in grades nine through twelve will select the English program that is most appropriate for their post-high school plans. The first of these programs is **Option I**, which is a challenging curriculum designed for students planning to pursue technical school degrees or technical or vocational careers upon graduation from high school. The second of these programs is **Option II**, which is designed for those students needing a rigorous academic background in order to attend a four-year college upon graduation. The third program includes **Honors** and **AP** courses. Freshmen, sophomores, juniors, and seniors who elect **Honors** or **AP** courses should possess strong self-motivation, the ability to manage a rigorous and increased workload, and the willingness to encounter challenges similar to college-level courses. The fourth program is **English Language Development**, which is designed for those students who are non-native speakers of the English language. In order to elect one of these courses, students must be tested and recommended by an ELD teacher.

Summer Reading

Summer reading lists will be available in the library, from English teachers, and on the district website at the beginning of May. The summer reading program is optional; however, students are strongly encouraged to participate. Students who participate in the optional Summer Reading Program must demonstrate to their English teacher that they have read the chosen book. Students have the opportunity to choose both the book and the manner in which it will be assessed. Students who have demonstrated that they have read the book may receive up to 2 percentage points towards their first marking period grade. Students who complete two summer reading projects may earn up to 4 percentage points. Percentage points may be applied to the first or second marking period but may not exceed the 2% district-wide extra credit limit for either marking period. A student may not earn over 100% for any class in any marking period. Assessments may be turned in to English teachers from the first day of the new school year until the first Friday of September. Any project deemed to be plagiarized will not be accepted. Students who plagiarize will be subject to disciplinary action according to school district policy.

NOTE: Advanced placement (AP) and Honors English classes have **required** summer reading and assignments that must be completed prior to the opening of school. Book lists and assignments are posted on the district website.

English I-Freshman English

English I-I – Course #201
English I-II – Course #202

1 credit
5 pds/wk



Course #202 Only

Ninth grade English utilizes the writing process to focus upon thesis development, organization, and revision. Students study essay structure and write narrative, informational, persuasive, and informal pieces. The study of literature includes analysis of short stories, novels, drama, and poetry. Students will have opportunities to share information and gain confidence speaking as part of a learning community. Students will review grammar, usage, and mechanics, and they will develop academic, domain-specific, and text-driven vocabulary.

Although the content for both options is similar, the instructional emphasis and approach in Option I stresses practical application; in Option II the focus is upon preparation for college work.

Honors English I- Course #2001 credit
5 pds/wk

Honors English I is designed for self-motivated students with a passion for English. Course objectives are taught in more depth and at a faster pace. Students in Honors English I are expected to be extremely organized, ready to take their thinking to the next level on a daily basis, and willing to encounter challenges beyond the Option II classroom. This course advances grammar, mechanics, and usage skills, essential writing skills, critical thinking skills, and reading skills to promote success in future English study. Writing instruction explores narrative, research-based, persuasive, and analytical styles of writing. The reading list extends from contemporary, thematically-accessible works to structurally more complex and demanding literature.

Honors English I is recommended for students who may want to elect AP courses in their 11th and 12th grade years. Students should expect to complete up to 60 minutes of homework per night.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

English II-Sophomore English**English II-I – Course #204**

1 credit

English II-II – Course #205

5 pds/wk

Prerequisite: English I

**Course #205 Only**

Responding to literature is the major focus of this course. Reinforcement of writing skills is continued through essays of narration, literary analysis, comparison/contrast, journal entries, and composition of a three to five-page research paper. In the study of literature, students recognize author's style through application of literary elements to various genres from different cultures. Presentation of the persuasive speech is introduced. Vocabulary study is an integral part of this course. Although the content is similar, the instructional emphasis and approach in Option I stresses practical application; in Option II the focus is on preparation for college work.

Honors English II – Course #2071 credit
5 pds/wk

Honors English II is designed for self-motivated students with a passion for English. Course objectives are taught in more depth and at a faster pace. Students in Honors English II are expected to be extremely organized, ready to take their thinking to the next level on a daily basis, and willing to encounter challenges beyond the Option II classroom. This course focuses on academic writing in response to literature and research. Students will strengthen a position by examining literature and secondary sources and by integrating textual evidence. Each student will develop and refine his/her own writing process in both academic and creative writing. Classic and contemporary fiction and narrative non-fiction will be examined with a critical eye.

Honors English II is strongly recommended for students who may wish to elect AP courses in their eleventh and twelfth grade years. Students should expect to complete up to 60 minutes of homework per night.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

English III-Junior English

Prerequisite: English II

1 credit
5 pds/wk

As in the preceding years, students will select Option I or Option II programs based upon their post high-school plans. Students who do not score Proficient or Advanced on the Keystone Literature Test in grade 10 will be required to complete supplementary instruction within their eleventh grade English courses.

English III-Option I - Course #2201 credit
5 pds/wk

English III-Option I is a full-year American literature course designed to help students to develop professional communication and writing skills. Students study short stories, essays, poetry, nonfiction, novels, and plays from American literature and make connections between their lives and American literature. In addition, students also develop an appreciation of the varied components of their American heritage by examining recurring themes within works written by many American authors. Teachers of this course place special emphasis upon relating literature to skills students need in their workplaces or careers. They also emphasize practical writing and editing skills. In addition, students will be required to create an in-depth research project.

English III-Option II - Course #2301 credit
5 pds/wk

English III-Option II is a full-year American literature course designed for those students who are planning to attend a four-year college after graduation. Students study short stories, essays, poetry, nonfiction, novels, and plays from the various periods in American literature and make connections between their lives and American literature. In addition, students also develop an appreciation of the varied components of their American heritage by examining recurring themes within works written by many American authors. Writing skills and oral communication are an integral part of this course. An emphasis is placed on persuasive, narrative, descriptive, explanatory, and research writing.

English III- AP Language and Composition - Course #2401 credit
5 pds/wk

Juniors with a passion for English, strong self-motivation, the ability to read and learn rapidly, and the willingness to encounter challenges beyond the regular Option II classroom may wish to elect AP Language and Composition. Critical reading with emphasis on rhetorical techniques, purpose, audience, and writing with attention to those same elements, are the focus areas in this challenging course. American literature from Puritanism to the present is the primary source of reading material. In addition to writing persuasive, narrative, descriptive, and explanatory papers, students develop oral communication skills. Students will be strongly encouraged to take the AP examination in May. Students should expect to complete up to 60 minutes of homework per night.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

English IV-Senior English

Prerequisite: English III

1 credit
5 pds/wk

As in the preceding years, students will select Option I or Option II programs based upon their post-high school plans. Students who do not score Proficient or Advanced on the Keystone Literature Test in grade 11 will automatically be assigned to English IV-Option I - Course #251 by counselors after receiving the scores over the summer. Students may simultaneously enroll in English IV-Option II – Course #260 if they wish to do so and their schedules allow for this.

English IV-Option I - Course #2511 credit
5 pds/wk

This course emphasizes critical reading and writing skills. Students are required to synthesize materials from a variety of sources and original ideas and to engage in reading, writing, and speaking as an interconnected process. Students will study literary works to gain knowledge of specific genres, world authors, history, critical approaches, and ideological content. In addition to world literature units, students will analyze and evaluate poetry, short stories, and novels, as well as a variety of pieces of “real world” non-fiction.

Throughout the year, students will increase, improve, and refine their communication skills. As well as responding to literature, students will write in a variety of forms including reflective, analytical, critical argument, and short research-based papers. Students will improve their abilities to express themselves in small and large group settings, practice and apply active listening skills, participate productively in self-directed work teams, and individually prepare and deliver presentations.

English IV-Option II - Course #2601 credit
5 pds/wk

This course provides challenging writing and speaking experiences which will prepare a student for college work. Writing experiences include a literary criticism paper, reflective essays, persuasive papers, and creative work. In addition, students prepare and present speeches to their class as well as participate in other speaking situations.

Students study the literature of a variety of cultures from throughout the world in this course. Various genres are examined, and a variety of responses to the readings will be required. One Shakespearean play also is studied. Special emphasis is placed on the written and oral analyses of the literature studied to prepare students for college work. The use of technology will support and enhance the learning.

English IV- AP English Literature and Composition - Course #2701 credit
5 pds/wk

In this rigorous Advanced Placement course, students will study the literature of a variety of cultures and writers from around the world, learning to read and comprehend works written at various times in various cultures. Students will learn to discover meaning in literature by being attentive to language, images, and devices; they will also be introduced to various techniques and strategies authors use to evoke responses from readers. Students will be expected to justify their interpretations by references to details and patterns in the texts, to compare their interpretations with those proposed by others, and to be prepared to modify their own interpretations as they learn. Students should learn about the times in which some texts were written so they can see a historical work in its original context as well as in the context of human life today.

Another component of the Advanced Placement class will be to sharpen speaking and communication skills; both informal and formal situations will be provided. Instruction in creative writing in the form of poetry, journals, stories, and essays will also give students insight into constructing worlds and works of their own.

Extensive independent work in reading and writing helps many students accumulate a body of knowledge about topics in which they are especially interested. Students will be strongly encouraged to take the AP examination in May. Students should expect to complete up to 60 minutes of homework per night.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

Creative Writing - Course #290

Grades 11-12

1 credit

Prerequisite: Recommendation from previous year's English teacher

5 pds/wk

This course will explore the writing process from inception to polished final products in a number of genres and mediums. Students will find inspiration from both modern day and classic authors who pioneered various techniques and genres. Through emulation and students' own invention, they will create work in the categories of fiction, creative nonfiction, drama, and poetry. Students will be expected to participate in daily writing exercises, submit weekly writing assignments, maintain personal writing portfolios, produce an anthology of their work suitable for publication, and participate in an end of the year gallery show of their writing to include readings at the students' discretion. Students in this course must be willing to work collaboratively both in and out of class and accept serious critiques of their work in preparation for future hobby, college, and career writing.

Shakespeare: Page to Stage - Course #280

Prerequisite: Approval of the teacher, Mr. Hewlett, at course selection time

1 credit

Grades 10-12

5 pds/wk

Shakespeare: Page to Stage is a full-year course designed for students who have demonstrated a sincere interest in Shakespeare and in performance and who have been successful in their English classes. In this course students will have the opportunity to develop their thinking skills, to develop their performance skills, and to study several texts in depth through the use of literary criticism, film, writing, performance, attendance at professional performances, and participation in several festivals/outreach programs. The students will have access to lectures and workshops with professors and artists who are experts in the areas of Shakespeare, performance, film, speech, art, and research. This course will further develop the students' thinking skills through a variety of activities such as developing promptbooks, acting, directing, collaborating on production design, working as a team, and providing leadership for the Shakespeare Troupe.

Oracle (Yearbook) - Course #460

Prerequisite: Approval of the teacher, Mrs. Muir, at course selection time

1 credit

Grades 9-12

5 pds/wk

This course is designed as a hands-on, laboratory experience, with students actively engaged in the production of the yearbook, *Oracle*. If you have an aptitude in writing, photography, research, interviewing, and/or computer design and are interested in preserving the history of Carlisle High School, please consider joining our staff. Preference will be given to students who have shown cooperation, dependability and an aptitude in one of the skill areas mentioned. Students will work on various other school publications after production of the yearbook is completed. As a member of the staff, students should expect to have individual and group assignments, which may include afterschool activities. Please see Mrs. Muir for more information and application.

Periscope (News Magazine/Website) – Course #470

Prerequisite: Approval of the teacher, Mrs. Muir, at course selection time

1 credit

Grades 9-12

5 pds/wk

This course is designed as a hands-on, laboratory experience, with students actively engaged in the production of *Periscope*, both a print school news magazine and a news website. Students should expect to spend time outside of the regular school day working on activities related to the production of these publications. This course explores journalism form and function including: journalistic style and elements of a news story; interviewing; writing news, features, editorials, and sports stories; writing headlines and captions; copy-editing; layout and web design; advertising; photojournalism; and press law and ethics. Please see Mrs. Muir for more information and application.

English Language Development (ELD)

The following courses are for English Learners only. In order to elect one of these courses, students must be tested and recommended by an ELD teacher.

ELD I - Entering - Course #2000

Prerequisite: testing and recommendation of ELD teacher
Grades 9-12

1 credit
5 pds/wk

This class is for English Learners at the *Entering* level of English language proficiency. This course emphasizes the core aspects/skills of the English language: listening, speaking, reading, and writing. Vocabulary and the fundamentals of grammar are learned through drills, dialogues, writing, and other activities. There is a strong emphasis on oral communication and survival skills. Cultural aspects of life in the United States are a major part of this course. Particular attention is paid to understanding American holidays, customs, and values. This ELD course follows the content standards of secondary English Language Arts with an instructional emphasis and approach stressing practical application.

ELD II - Emerging - Course #2001

Prerequisite: testing and recommendation of ELD teacher
Grades 9-12

1 credit
5 pds/wk

This class is for English Learners at the *Emerging* level of English language proficiency. This course continues to emphasize the core aspects/skills of English language acquisition: listening, speaking, reading, and writing. Vocabulary and the fundamentals of grammar are practiced through drills, dialogues, writing, and other activities. There is a continued emphasis on oral communication and cultural aspects of life in the United States. This ELD course follows the content standards of secondary English Language Arts with an instructional emphasis and approach stressing practical application.

ELD III – Developing - Course #2003

Prerequisite: testing and recommendation of ELD teacher
Grades 9-12

1 credit
5 pds/wk

This class is for English Learners at the *Developing* level of English language proficiency. This course emphasizes the four skill areas of language acquisition: listening, speaking, reading, and writing. Vocabulary, grammar and an introduction to American literature are part of this course. There is a strong emphasis on oral and written communication and understanding of American culture. This ELD course follows the content standards of secondary English Language Arts with an instructional emphasis and approach stressing practical application.

ELD IV – Expanding – Course #2004

Prerequisite: testing and recommendation of ELD teacher
Grades 9-12

1 credit
5 pds/wk

This class is for English Learners at the *Expanding* level of English language proficiency. This course emphasizes the four skill areas of language proficiency: listening, speaking, reading, and writing. The study of both world and American literature are important aspects of this course with special focus on advanced vocabulary, grammar, and writing skills. Critical thinking skills are encouraged through cultural discussions, self-reflection, and group and individual projects. This ELD course follows the content standards of secondary English Language Arts and will prepare English Learners to transition to a non-sheltered English course the following year.

ELD Academic Support - Course #2007

Prerequisite: recommendation of ESL teacher
Grades 9-12

1 credit
5 pds/wk

This course is for English Learners at the Entering to Developing level of English language proficiency. Students who are recommended for this course will receive tiered language support from an ESL teacher on content area homework and projects. Additional introductory language and cultural support for newcomer students will also be provided.

HEALTH AND WELLNESS DEPARTMENT



Physical Education

Required of all students
Grades 9-12

0.25 credits
2 pds/wk

Physical Education provides students with an opportunity to learn physically, socially, and emotionally through physical activity. The objectives of the Physical Education program are to develop physical fitness, knowledge, and theory of individual and team sports; and to learn new skills and concepts that lead to healthy, productive lives as adults. Each student must complete four years of Physical Education during high school.

Grades 9 and 10 – Activities/electives

Fall (MP 1):

Team Sports (Soccer/Ultimate Frisbee/Flag Football/Volleyball)

Fitness Introduction to Fitness Center, Pre-testing, Goal setting

Winter (MP 2):

Team Sports (Basketball/Team Handball/Floor Hockey)

Adventure Based Education/Cooperative Games

Fitness: Design and engage in personal fitness plan

Winter (MP 3):

Leisure Activities (Pickleball, Other lifetime sports)

Fitness – Continued work on personal fitness plan

Spring (MP 4):

Adventure Based Education/Cooperative Games

Team Sports (Lacrosse, Softball, Aerial ball)

Fitness continued work on Personal fitness plan, post-testing

Grades 11 and 12 - Activities/electives

Fall (MP 1):

Team Sports: (Football, Soccer, Ultimate Frisbee)

Lifetime Activities: (Disc Golf, Tennis)

Fitness Introduction to Fitness Center, Pre-testing, Goal setting

Winter (MP 2):

Team Sports : (Basketball, Volleyball, Floor Hockey, Mat ball)

Fitness: Design and engage in personal fitness plan

Winter (MP 3):

Team Sports: (Team Handball, Wiffleball)

Lifetime Activities: (Badminton, Table Tennis)

Fitness: (Weight Training, Aerobic Activities and continued work on Personal fitness plan)

Spring (MP 4):

Team Sports: (Softball, Speed Ball)

Lifetime Activities: (Archery, Golf)

Fitness: (Continued work on Personal fitness plan, post-testing)

Students will be given options between team sports, lifetime activities and fitness activities. Fitness and flexibility related components will be incorporated into all Physical Education units. All students will be required to take a pre- and post physical fitness test each year. Students will have the opportunity to participate in multiple activities each marking period. Students in grades 10th through 12th who wish to enrich their high school experience by adding additional courses or a student who needs to take seven credits (plus PE/Health) to graduate or be promoted can take a Physical Education course online.

- ***Please Note: There is an approval process to be eligible to enroll in P.E. / Health online.***

Safety Education – Course #530

Required of all students
Grade 10

0.2 credit
1 pd/wk

Safety Education is designed to create an awareness of the needs and problems involved in operating a motor vehicle safely and efficiently. The focus of this course includes: developing knowledge, skill, and positive attitudes in relation to laws, decision making, visual habits, and safe driving practices.

- **Please Note:** There is an approval process to be eligible to enroll in Safety Ed online.

Health I - Course #510

Required of all students
Grade 9

0.6 credit
2 pds/wk

Health I increases awareness and understanding of the impact of heredity, culture, environment, behavior and choice on physical, social, mental wellness. Key topics include: health skills, nutrition and weight management, disease prevention, social health issues, and first aid/CPR.

Health II - Course #541

Required of all students
Grade 11 or 12

0.2 credit
1 pd/wk

Health II enhances student understanding of health issues that will impact their lives as adults. The focus of this course includes: growth and development, disease prevention, first aid, nutrition and weight management, and violence prevention. Students in grades 10th through 12th who wish to enrich their high school experience by adding additional courses or a student who needs to take seven credits (plus PE/Health) to graduate or be promoted can take Health II enrichment online.

MATHEMATICS

DEPARTMENT



Explanation of Program Options

The curriculum offered in mathematics is loosely structured into two paths. The courses in PATH 1 are intended for students who are planning to go directly into the work force from high school or who plan to attend post-high school education but not in a field requiring extensive mathematics or science. The courses listed in PATH 2 are designed for the students who need a thorough and theoretical mathematical preparation for advanced study and an eventual career in mathematics or science. It is suggested that students consult their mathematics teacher in selecting the courses best suited to their individual situations. Students are encouraged to select a challenging schedule to keep as many educational and career options open as possible. AP Computer Science Principles may be taken any time after Algebra I in the paths below. The Pennsylvania Mathematics Standards clearly emphasize the importance of algebra, geometry, and statistics for all students. The high school mathematics curriculum has been tailored to meet those standards.

PATH 1 a

Algebra IA
Algebra IB/Integrated Math II
Integrated Math III
Algebra II
Probability and Statistics

PATH 1 b

Algebra I
Geometry
Algebra II
Pre-calculus
Probability and Statistics
AP Computer Science Princ.
AP Computer Science A

PATH 2:

Algebra I
Honors Geometry
Honors Algebra II
Honors Pre-calculus
Calculus or AP Calculus AB
AP Statistics
AP Calculus BC
AP Computer Science Principles
AP Computer Science A

Algebra IA – Course #415

Grades 9-12

1 credit

5 pds/wk



This course is designed for students who struggled with Middle School Math and/or were not proficient or above on the 8th grade PSSA assessment. This course is part 1 of a 2-year sequence of algebra. In this course, the topics from the first half of Algebra I are covered and therefore, more time is allocated for activities, discovery-learning and differentiation. The course is arranged in a way that helps students make connections between the Algebra they are learning and real life applications. After successful completion of this course, students will take Algebra IB which will cover the second half of Algebra I.

Integrated Math II - Course #416

Prerequisite: Integrated Math I

Grades 9-12

1 credit

5pds/wk



Integrated Math 2 covers topics in algebra, geometry, probability and measurement. By cycling through the algebra and geometry and probability in Integrated Math 1 and then more of the algebra, geometry and probability in Integrated Math 2, students will have covered the essential Algebra 1 topics, as well as the measurement and data analysis and probability standards. Students will prepare for and take the Keystone Algebra I Assessment. After successful completion of this course, students may choose either Geometry with teacher recommendation or Integrated Math 3.

Integrated Math III - Course #417

Prerequisite: Integrated Math II

Grades 9-12

1 credit

5 pds/wk



Worth .5 towards NCAA

This course continues the cycling of Algebra, Geometry and Probability and adds some Algebra II concepts. After completing the Integrated Math series, students will have the Prerequisite

skills required in a college algebra class. After successful completion of Integrated Math 3, students may take Algebra II or Probability and Statistics with teacher recommendation.

Algebra I - Course #411

Grades 9-12

1 credit

5 pds/wk



The goals of this course include (1) solving applied problems by writing and solving one and two variable equations, (2) graphing and analyzing linear data and writing the equation for the line of best fit, and (3) the manipulative skills necessary for adding, subtracting, multiplying, dividing, and reducing algebraic fractions. Students will prepare for and take the Pennsylvania Keystone Algebra I Assessment. Proficiency on this exam is a graduation requirement. Students who take Algebra I in 8th grade and are not proficient on the Keystone Algebra I exam are strongly encouraged to re-take Algebra I in 9th grade.

Geometry – Course #422

Prerequisite: Algebra I or Integrated Math II

Grades 9-12

1 credit

5 pds/wk



This course is similar to the Honors Geometry course but with a more applied approach. The emphasis is on the study of geometric facts and their applications. It is recommended that students with an interest in eventually studying calculus take the Honors Geometry course. This course may not be selected if Honors Geometry has been successfully completed.

Honors Geometry - Course #418

Prerequisites: Algebra I or Integrated Math II

Grades 9-12

1 credit

5 pds/wk



Honors Geometry is concerned with two major areas of study. The first is the study of geometric facts. These facts deal with the relationship in space of points, lines and planes, and essentially treat geometry as a mathematical model of the physical world. The second area is the study of the nature of proof and of geometry as a system of postulates dealing with precise definitions, correct reasoning, and logical attitude. This course is similar to Geometry but is a more theoretical treatment of geometry and is intended for students who will likely pursue a mathematics or science-related career. This course may not be selected if Geometry has been successfully completed.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

Algebra II - Course #432

Prerequisites: Algebra I and Geometry or Integrated Math III
or Honors Geometry

Grades 10-12

1 credit

5 pds/wk



Algebra II is designed for students who need to extend the algebraic skills begun in Algebra I or Integrated Math 1 and 2 in a more practical and less theoretical setting than in Honors Algebra II. The course studies inequalities, algebraic fractions, fractional and negative exponents, radicals, solving systems of equations, and the complex numbers. Students are introduced to the concept of a function in general and specifically to polynomial, rational, exponential, logarithmic, and trigonometric functions. This course may not be selected if Honors Algebra II or Accelerated Algebra II has been successfully completed.

Honors Algebra II - Course #419

Prerequisites: Algebra I and Geometry or Honors Geometry

1 credit

5 pds/wk

(Exception: Students with an Algebra I average of B or higher may take Honors Algebra II concurrently with Honors Geometry).

Grades 10-12



Honors Algebra II deals with the same concepts as Algebra II but in more depth and in a more abstract setting. Students planning to pursue a mathematics or science-related-major should select Honors Algebra II rather than Algebra II. This course may not be selected if Algebra II has been successfully completed. Note: A TI graphing calculator is recommended for home use.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

Pre-calculus - Course #441Prerequisite: Algebra II or Accelerated Algebra II or Honors Algebra II
And Geometry or Honors Geometry

1 credit

5 pds/wk

Grades 11-12



Pre-calculus expands the study of functions, including polynomial, exponential, logarithmic and trigonometric functions introduced in Algebra II, and prepare students for Calculus but not for AP Calculus. The course also includes topics from analytic geometry and includes a heavy emphasis on trigonometry. Students are expected to have either a scientific or graphing calculator available for class and at home for use in assignments. This course may not be selected if Honors Pre-calculus has been successfully completed.

Honors Pre-calculus – Course #424Prerequisite: Algebra II or Accelerated Algebra II or honors Algebra II and
Geometry or Honors Geometry

1 credit

5 pds/wk

Grades 11-12



Honors Pre-calculus further explores the study of functions, including polynomial, exponential, logarithmic and trigonometric functions. The course includes topics from analytic geometry and some of the basic initial topics of calculus. There is more emphasis on theory and proof than in Pre-calculus. Students are expected to have either a scientific or graphing calculator available for class and at home for use in assignments. It is recommended that students planning to study calculus elect Honors Pre-calculus rather than Pre-calculus. This course may not be selected if Pre-calculus has been successfully completed.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

Probability and Statistics - Course #443Prerequisite: Integrated Math III or students must have
completed or be taking concurrently either
Algebra II or Accelerated Algebra II or Honors Algebra II

1 credit

5 pds/wk

Grades 11-12



This course is recommended for every student not taking or planning to take AP Statistics. The course is devoted primarily to the study of probability and statistics. Late in the course additional attention is given to the mathematics used in the world of information processing such as logic, mathematical induction and matrix algebra. Students are expected to have either a scientific or graphing calculator available for class and at home for use in assignments. This course may not be selected if AP Statistics has been successfully completed.

Calculus - Course #451

Prerequisite: Pre-calculus or Honors Pre-calculus
 Grades 11-12

1 credit
 5 pds/wk



Calculus has two complementary aspects. It is a mathematical discipline in which through logic, postulates and definitions, a body of theorems is developed. It is also a powerful instrument for obtaining useful solutions to a wide variety of problems in science, technology and industry. Because of the level of difficulty, it is recommended that students who elect this course have an excellent background in mathematics, a strong desire to continue studies in mathematics or science, the ability to work independently, and willingness to complete daily assignments that may be lengthy. Students are expected to have either a scientific or graphing calculator available for class and at home for use in assignments. This course may not be selected if AP Calculus has been successfully completed.

Raspberry Pi – Course #8571

Prerequisite: Geometry
 Grades 11-12

1 credit
 5 pds/wk

Raspberry Pi is a computer course which offers students the opportunity to engage in computer science topics using the power of programming. Students will learn and apply introductory programming techniques through activities such as manipulating aspects of a video game and constructing a Raspberry Pi computer.

Standards Math – Course #436

Grade 10-12

0.2 credits
 1 pd/wk

This course is a requirement for students who did not score proficient or above on the Keystone Algebra I assessment. This course will provide those students who did not score proficient or above on the Keystone Algebra I the opportunity to concentrate on the Algebra I Assessment Anchors. The State has determined that these are the areas of mathematics necessary for students to be successful citizens. This course gives them another chance to attain those concepts. Students will re-take the Keystone Algebra I Assessment in the winter and if necessary, the spring.

Advanced Placement (AP) Courses:

Five Advanced Placement courses are offered by the mathematics department. Due to their nature and the amount of material covered, students are advised to carefully consider their mathematical background, career goals, and willingness to engage themselves with difficult material before electing these courses.

AP Statistics - Course #455

Prerequisite: Algebra II, Pre-calculus, Honors Pre-calculus
 (Students may take AP Statistics concurrently with Pre-calculus or Honors Pre-calculus)

1 credit
 5 pds/wk

Grades 11-12



This course follows the syllabus provided by The College Board in preparation for the Advanced Placement Statistics examination. The topics for AP Statistics are divided into four major themes: exploratory analysis, planning a study, probability and statistical inference. Additional details on the course and its content can be found at <http://apcentral.collegeboard.com/article/0,3045,151-165-0-2151,00.html>. Students are encouraged to take the AP exam in May, but it is not a requirement for enrollment in the course and the decision concerning exam registration need not be made until March. Students are expected to have a scientific calculator or preferably a graphing calculator available for class and at home for use in assignments. This course may not be selected if Probability and Statistics has been successfully completed.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

AP Calculus AB - Course #456

1 credit

Prerequisites: Honors Pre-calculus or Pre-calculus

5 pds/wk

Grades 9-12



This course is intended for students who have a thorough knowledge of analytic geometry and elementary functions as well as geometry, algebra and trigonometry. Students will follow the AP syllabus provided by The College Board in preparation for the Calculus AB examination. Additional details on the course and its content can be found at <http://apcentral.collegeboard.com/article/0,3045,151-165-0-2178,00.html>. Students are encouraged to take the AP exam in May, but it is not a requirement for enrollment in the course and the decision concerning exam registration need not be made until March. Students are expected to have a scientific calculator or preferably a graphing calculator available for class and at home for use in assignments. This course may not be selected if Calculus has been successfully completed.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

AP Calculus BC - Course #426

1 credit

Prerequisite: Successful completion of Honors Pre-Calculus,
Calculus or AP Calculus AB

5 pds/wk

Grades 10-12



Calculus BC begins with a review and extension of the methods of differentiation and integration learned in AP Calculus AB. Additional topics are infinite sequence and series including Taylor Series, three-dimensional vectors, partial derivatives, multivariable integration, and an introduction to differential equations. Successful completion of AP Calculus BC should be adequate preparation for the BC Advanced Placement Calculus test in May.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

AP Computer Science Principles –Course #428

1 credit

Prerequisite: successful completion of Algebra I

5 pds/wk

Grades 9-12



AP Computer Science Principles will introduce students to the broad field of Computer Science. Students are not expected to have any prior computer programming knowledge or experience. The course will cover the creative aspects of programming, the Internet, cybersecurity concerns, abstractions, algorithms, large data sets, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in Computer Science.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

AP Computer Science A - Course #427

Prerequisite: successful completion of Honors Algebra II or Algebra II
Grades 10-12

1 credit
5 pds/wk



The goals of the AP Computer Science A course are comparable to those in the introductory course for computer science majors offered in many college and university computer science departments. It is not expected that all students in the AP Computer Science A course will major in computer science at the university level. The AP Computer Science A course is intended to serve both as an introductory course for computer science majors and as a course for people who will major in other disciplines and want to be informed citizens in today's technological society.

The following goals apply to the AP Computer Science A course.

Students should be able to:

- design, implement and analyze solutions to problems
- use and implement commonly used algorithms
- use standard data structures
- develop and select appropriate algorithms and data structures to solve new problems
- write solutions fluently in an object-oriented paradigm

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

MUSIC

DEPARTMENT



Concert Band - Course #050

Grades 9-12

1 credit

5 pds/wk

Enrollment in Concert Band is open to band instrumentalists. In this course, band literature is studied and performed throughout the school year. Skill building techniques are emphasized during class periods. Students receive grades in relation to their abilities and progress in the study of various musical compositions and required skill building techniques. Attendance is required for all performances held outside of the school day.

Symphonic Band - Course #052

Prerequisite: Approval of instructor, Mr. Mikesell, at course selection time

Grades 9-12

1 credit

5 pds/wk

Symphonic Band is an advanced performing ensemble. Enrollment is open to band instrumentalists who meet specified requirements demonstrated through an audition. Advanced band literature is studied and performed throughout the school year. Students receive grades in relation to their abilities and progress in the study of various musical compositions and required skill building techniques. Attendance is required for all performances held outside of the school day.

Concert Choir – Course #054

Grades 9-12

1 credit

5 pds/wk

Enrollment in Concert Choir is open to all interested singers. Objectives of the Concert Choir are centered on building the fundamentals of choral singing, with emphasis upon tone quality, music reading, ear-training, rhythm, diction, and phrasing. The Concert Choir repertoire will cover a wide range of musical styles including folk songs, spirituals, and popular tunes, as well as more serious selections from various historical periods and cultures around the world. Attendance at all performances is required, including those outside of the school day. Students who select this course should expect to attend three or four rehearsals outside of the regular school day during the school year.

Bel Canto Singers - Course #056

Prerequisite: Approval of instructor, Mr. Schade, at course selection time

Grades 10-12

1 credit

5 pds/wk

Bel Canto Singers is an advanced performing ensemble. Enrollment is open to singers who meet specified requirements demonstrated through an audition. Advanced choral literature for treble voices with sub-division of voice parts will be studied and performed throughout the year. Development of singing technique, tuning accuracy, and part independence are areas of focus for the ensemble. Students receive grades in relation to their abilities and progress in the study of various choral compositions and required skill building techniques. Attendance is required for all performances held outside of the school day. Three or four rehearsals will be held during the school year beyond the regular school day.

Chamber Singers - Course #057

Prerequisite: Approval of instructor, Mr. Schade, at course selection time

Grades 10-12

1 credit

5 pds/wk

The Carlisle High School Chamber Singers is an advanced choral ensemble. Emphasis will be placed on singing and rehearsing a cappella for at least part of every rehearsal or performance. Singers will be expected to sing in mixed quintets. Students must demonstrate an ability to read musical notation, hear and reproduce a series of pitches accurately, and sing with an advanced level of vocal development. Students will be selected for this ensemble by audition. The ensemble will rehearse and perform advanced level choral works of many historical periods, styles, and cultures. Students will receive grades in relation to their abilities and progress in the study of various compositions and development of musicianship skills. Attendance is required for all performances/rehearsals held outside of the school day.

Orchestra - Course #059

No prerequisite
Grades 9-12

1 credit
5 pds/wk

The orchestra consists of all interested and qualified string instrument students (violin, viola, cello, and bass). Woodwind, brass, and percussion instrumentalists are selected from the high school Symphonic Band membership. Music of various styles and periods of music history are studied and performed. The orchestra performs in public concerts, school exchange concerts, and special assemblies during the school term. Attendance is required for all performances, including those outside of the school day.

Introduction to Music Technology - Course #091

No prerequisite
Grades 9-12

1 credit
5 pds/wk

The Introduction to Music Technology course is designed for students who have a strong interest in music or who may be considering a career in a music related field – especially: music education; music performance; music recording; composition; music industry; music therapy; television/radio industry; audio engineering; music arranging; recording editing; and virtual reality sound environments (internet games, programs).

The course will cover basic skills in the following areas: music reading, music notation, composition, editing, and arranging; CD creation; MIDI sequencing; audio recording and mixing; audio mastering and production; related software.

Much of the course will involve hands-on application of the major course concepts while a portion of the learning will be theory and conceptually based. Students will explore ways in which technology is used in today's music industry through practical applications in individual and group projects throughout the year. Students in the course will need to have access to their own recording media, i.e. thumb drives, recordable CD's, etc. to store and transport their projects to and from school.

AP Music Theory – Course #100

Prerequisite: Participation in a music ensemble or recommendation from the teacher
Grades 10-12

1 credit
5pds/wk

The Advanced Music Theory course is designed for all student musicians, not exclusively students who will major in music at the collegiate level.

Advanced Music Theory will teach music from the viewpoint of composition, allow students to explore the fundamentals of music and appreciate the elements of music which are expressed through history and style. Students will also learn musicianship skills such as; score reading, aural skills, sight-singing, playing the piano, and the advantages of using music technology. Additional concepts will be taught, such as music history, composition, and four-part writing. Students should have a keen ability to read and write musical notations along with basic performance skills (instrument and/or voice).

It's recommended that students who enroll in this course would register for the AP Music Theory Exam which is usually held in May.

Concert Band/Concert Choir – Course #061

Prerequisite: Approval of instructors, Mr. Mikesell and Mr. Schade, at course selection time
Grades 9-12

1 credit
5 pds/wk

This course is designed for the student who wants to elect both Concert Band and Concert Choir. Students must have the permission of both instructors before enrolling in this course. Students will divide their time, based on teacher recommendation, between the two performing groups. All course requirements as listed under Concert Band and Concert Choir will apply to this course.

Orchestra/Concert Choir – Course #064

Prerequisite: Approval of instructors, Mr. Kuehrmann and
Mr. Schade, at course selection time
Grades 9-12

1 credit
5 pds/wk

This course is designed for students who wish to elect Orchestra and Concert Choir. Students must have the permission of both instructors before enrolling in this course. Students will divide their time, based on teacher recommendation, between the two performing groups. All course requirements as listed under Orchestra and Concert Choir will apply to this course.

Concert Band/Orchestra - Course #062

Prerequisite: Approval of instructors, Mr. Mikesell and
Mr. Kuehrmann, at course selection time
Grades 9-12

1 credit
5 pds/wk

This course is designed for students who play a string and a band instrument and want to participate in both programs. Students will divide their time, based on teacher recommendation, between the two performing groups. All requirements listed under Concert Band and Orchestra will apply to this course.

Symphonic Band/Orchestra - Course #063

Prerequisite: Approval of instructors, Mr. Mikesell and
Mr. Kuehrmann, at course selection time
Grades 9-12

1 credit
5pds/wk

This course is designed for students who play a string and a band instrument and want to participate in both programs. Students will divide their time, based on teacher recommendation, between the two performing groups. All requirements as listed under Symphonic Band and Orchestra will apply to this course.

Symphonic Band/Chamber Singers – Course #069

Prerequisite: Approval of instructors, Mr. Mikesell and
Mr. Schade, at course selection time
Grades 10-12

1 credit
5 pds/wk

This course is designed for students who wish to elect Symphonic Band and Chamber Singers. Students must have the permission of both instructors before enrolling in this course and must have auditioned and been accepted into both ensembles. Students will divide their time, based on teacher recommendation, between the two performing groups. All course requirements as listed under Symphonic Band and Chamber Singers will apply to this course.

Musical Theater Experiences - Course #086

No Prerequisite
Grades 10-12

1 credit
5 pds/wk

This course will be a study of the history of American musical theater and the different production aspects of putting on a show. Music and scenes from different Broadway shows will be studied and performed as a class. Different techniques and styles of musical theater will be done through analysis of a variety of Broadway shows. Students will have hands on experience with writing and directing, as well as production aspects such as lighting design, set design, and costuming.

Guitar and the History of Rock and Roll – Course # 088

No Prerequisite
Grades 9-12

1 credit
5 pds/wk

This course incorporates Rock and Roll music, its history, and popular musicians from the genre along with class guitar instruction to afford students an opportunity to learn and develop playing skills on guitar along with developing an understanding of the history of one of the most familiar popular genres of music – Rock and Roll. We will explore rock music from its origins

through the present day. Students will share music from the genre to analyze and evaluate as a class. We will analyze performances and recordings as afford students the option to play some of the music we are learning about after guitar skills have been sufficiently developed. Students will use Nylon string guitars that are provided for in-class use. Students are encouraged to have a guitar available at home for use in this course – but should not purchase an instrument before speaking with the course instructor.

This course may be taken more than once for credit. Students who register a second time for this course will continue their guitar work on more challenging repertoire and will complete varied assignments for the Rock and Roll history portion of the course. No pre-requisite is required for entry into this course. This course fulfills one (1) credit towards the Arts and Humanities graduation requirement. Access to a school laptop or other device with Audacity or other readily available multi-track recording software is essential. Students must have a functioning set of headphones in class at all times.

Piano/Music Theory I – Course #089

No Prerequisite

1 credit

Grades 9-12

5 pds/wk

This course incorporates all the fundamental music theory elements of music reading, chords, melody writing, rhythm, harmonization, and solfege, along with piano playing. This is a great course to take if you want to learn to play the piano. It is also intended for students who have piano background already and want to continue to develop their skills on the instrument.

This course may be taken more than once for credit. Students who register a second time for this course will continue their piano work on more challenging repertoire and will complete varied theory assignments that continue into harmonic analysis and four-part writing and melodic dictation. No pre-requisite is required for entry into this course. This course fulfills one (1) credit towards the Arts and Humanities graduation requirement. Access to a school laptop or other device with Audacity or other readily available multi-track recording software is essential. Students must have a functioning set of headphones in class at all times. This course will fulfill the prerequisite for Music Theory II.

History of Western Music – Course #092

No Prerequisite

1 credit

Grades 9-12

5 pds/wk

This course is a survey of music and musicians from the middle ages through the present day that have contributed to what is commonly called “classical” music. The course reviews and evaluates music of many great classical composers as this music is the origin for present-day composition. The course is organized into time periods beginning with music from the Middle Ages, baroque, classical, romantic, and 20th century to present day styles and literature. Musical compositions for choir, orchestra, band, and other smaller ensembles to include solo repertoire will all be a part of the music listening environment for this class. The study of musical form is a significant piece of the course – by comparing how music of different styles, genres, and time periods became organized differently. This course is perfect for students who enjoy listening to classical music, studying about the music of the great composers like Bach, Beethoven, Mozart, Brahms, Debussy, and – yes, John Williams and other present day classical composers!

This course may be taken once for credit. No pre-requisite is required for entry into this course. This course fulfills one (1) credit towards the Arts and Humanities graduation requirement. Access to a school laptop or other device with Audacity or other readily available multi-track recording software is essential. Students must have a functioning set of headphones in class at all times.

Perspectives of Music in Popular Culture – Course #093

No Prerequisite
Grades 9-12

1 credit
5 pds/wk

This course is a survey of music and musicians from the early 1900's through the present day that have contributed to popular culture and its music. The course reviews and evaluates different genres and styles of music through the decades – and explores the influence and development of music over time and through a parallel study of popular culture and impacting events that are affiliated with the music and musicians. Students will be expected to listen to a variety of music throughout this course – including but not limited to the genres of music they most prefer. Instruction on the concepts surrounding critical listening of music is a key to this class and “opens up the ears” in a different way than they have previously approached music listening.

This course may be taken once for credit. No pre-requisite is required for entry into this course. This course fulfills one (1) credit towards the Arts and Humanities graduation requirement. Access to a school laptop or other device with Audacity or other readily available multi-track recording software is essential. Students must have a functioning set of headphones in class at all times.

Concert Choir – Non Credit – Course #081

Prerequisite: Approval of instructor, Mr. Schade, at course selection time
Grades 10-12

No Credit
2-3 pds/wk

This course is designed for 10th, 11th, and 12th grade students who cannot schedule Concert Choir as a class but can participate two or three times each week for no credit. Students must have the approval of the instructor and must be able to demonstrate specified vocal technique and music reading ability. All course requirements as listed under CONCERT CHOIR will apply to this course.

Students who elect Concert Choir Non-Credit, must be capable of and personally responsible for learning all performance music with limited rehearsal time. *All students are strongly encouraged to register for the credited course if possible.*

Bel Canto Singers – Non Credit – Course #083

Prerequisite: Approval of instructor, Mr. Schade, at course selection time
Grades 10-12

No Credit
2-3 pds/wk

This course is designed for 10th, 11th, and 12th grade students who cannot schedule BEL CANTO SINGERS as a class but can participate two or three times each week for no credit. Students must have the approval of the instructor and must be able to demonstrate specified vocal technique and music reading ability. All course requirements as listed under BEL CANTO SINGERS will apply to this course.

Students who elect Bel Canto Singer Non-Credit, must be capable of and personally responsible for learning all performance music with limited rehearsal time. *All students are strongly encouraged to register for the credited course if possible.*

Concert Band – Non Credit – Course #065

Prerequisite: Approval of instructor, Mr. Mikesell, at course selection time
Grade 9-12

No Credit
1-3 pds/wk

This course is designed for 9th-12th grade students who cannot schedule Concert Band as a class but can participate one, two, or three times each week for no credit. Students must have the approval of the instructor and must be able to demonstrate specified vocal technique and music reading ability. All course requirements as listed under CONCERT BAND will apply to this course.

Students who elect Concert Band Non-Credit, must be capable of and personally responsible for learning all performance music with limited rehearsal time. *All students are strongly encouraged to register for the credited course if possible.*

Orchestra – Non Credit – Course #071

Prerequisite: Approval of instructor, Mr. Kuehrmann, at course selection time No Credit
Grades 10-12 2-3 pds/wk

This course is designed for 9th-12th grade students who cannot schedule ORCHESTRA as a class but can participate two or three times each week for no credit. Students must have the approval of the instructor and must be able to demonstrate specified playing technique and music reading ability. All course requirements as listed under ORCHESTRA will apply to this course.

Students who elect Orchestra Non-Credit, must be capable of and personally responsible for learning all performance music with limited rehearsal time. *All students are strongly encouraged to register for the credited course if possible.*

Symphonic Band – Non Credit – Course #066

Prerequisite: Approval of instructor, Mr. Mikesell, at course selection time No Credit
Grades 10-12 2-3 pds/wk

This course is designed for 10th-12th grade students who cannot schedule Symphonic Band as a class but can participate two or three times each week for no credit. Students must have the approval of the instructor and must be able to demonstrate specified playing technique and music reading ability. All course requirements as listed under SYMPHONIC BAND will apply to this course.

Students who elect Symphonic Band Non-Credit, must be capable of and personally responsible for learning all performance music with limited rehearsal time. *All students are strongly encouraged to register for the credited course if possible.*

READING DEPARTMENT



Reading A - Course #885

Prerequisite: Approval of the Reading Department
Grades 9-12

1 credit
5 pds/wk

Reading A is designed for students who are lacking in phonemic awareness, phonics, fluency, vocabulary and comprehension, and are not functional readers. Time will be spent ensuring that students have mastery of the sounds in English and the ability to pair those sounds with the corresponding letters or spelling patterns that represent them. Instruction in syllable types will further students' understanding of how letters and sounds build words. Students will practice decoding and encoding words with studied patterns. As students become more proficient at decoding and encoding the course will continue to develop their fluency in both reading and writing. Vocabulary and comprehension instruction are additional components of the lesson plan that teach students to use visualization as they are reading text. Placement in Reading A is based on staff recommendations.

Reading B - Course #886

Prerequisite: Approval of the Reading Department
Grades 9-12

1 credit
5 pds/wk

Reading B is designed for students who are strong in phonemic awareness and have mastery of basic phonics skills but need additional instruction in advanced phonics skills, fluency, vocabulary and comprehension. Time will be spent acquiring mastery of spelling patterns, and advanced phonics skills that will enable students to proficiently decode and encode text with minimal errors. Students will apply the skills learned to become fluent readers of text. Vocabulary and comprehension are additional components of this course that will enable students to apply the learned phonics skills to text. Placement in Reading B is based on staff recommendations.

Reading C - Course #888

Prerequisite: Approval of the Reading Department
Grades 9-12

1 credit
5 pds/wk

Reading C is designed for students who are strong in phonemic awareness and have mastery of basic phonics skills but need additional instruction and automaticity in advanced phonics skills, fluency, vocabulary and comprehension. Time will be spent reviewing spelling patterns and advanced phonics skills, however the focus of the course will be to become automatic and fluent reading text. Vocabulary development and application of acquired fluency and vocabulary skills to comprehend text of greater length and difficulty will be a focus. Placement in Reading C is based on staff recommendations.

Reading D - Course #889

Prerequisite: Approval of the Reading Department
Grades 9-12

1 credit
5 pds/wk

Reading D is designed for students who are strong in phonemic awareness, phonics and fluency but need additional instruction in vocabulary development and comprehension. Time will be spent building fluency and automaticity of text; however the focus of instruction will be on the development of vocabulary and comprehension strategies. Placement in Reading D is based on staff recommendations.

Reading E - Course #879

Prerequisite: Approval of the Reading Department
Grades 9-12

1 credit
5 pds/wk

Reading E is designed for students who are strong in phonemic awareness, phonics and fluency but need additional instruction in vocabulary development and comprehension. Time will be spent building fluency and automaticity of text; however the focus of instruction will be on the advanced development of vocabulary and comprehension strategies.

SCIENCE DEPARTMENT



PLANNED COURSE OFFERINGS:

Welcome to the Science Program! We are proud of the variety of science courses that are offered at CHS. As a general guideline, the science program is structured into three different pathways of study based on students' post-secondary plans.

- Option I is a challenging curriculum that is designed to meet the needs of students who plan to enter into a career directly following high school, or enroll in a two-year post-secondary program.
- Option II provides a rigorous, in-depth science experience to meet the needs of students who are interested in attending a two or four-year college program. Students in option II are strongly encouraged to take four or more courses in science during their high school years.
- Honors and/or the Advanced Placement [AP] course are designed for the accelerated math/science student. The honors/AP curricula are designed for those students demonstrating exceptional interest and ability in the sciences. In this option, students will be strongly encouraged to take at least five (5) courses in science during their high school careers.

HOWEVER, IN ORDER TO SATISFY THE SCIENCE GRADUATION REQUIREMENTS SET FORTH BY THE CARLISLE AREA SCHOOL DISTRICT; ALL STUDENTS **MUST** TAKE THE FOLLOWING SCIENCE COURSES:

- A GEO-ENVIRONMENTAL BASED SCIENCE
- BIOLOGY I
- ONE PHYSICAL SCIENCE COURSE IN CHEMISTRY **OR** PHYSICS

GRADE 9 COURSE OPTIONS

Geo-Environmental Science - Option I – Course #711

No Prerequisite

1 credit

5 pds/wk

This course is newly designed to discuss the relevancy and applicability of the Earth and its processes. Students will also learn about how humans alter and change the Earth. Hands on activities, labs and projects are designed to further enhance student understanding and mastery of the content.

Geo-Environmental Science - Option II – Course #712

No Prerequisite

1 credit

5 pds/wk



This course familiarizes students with planet Earth. This course is newly designed to discuss the relevancy and applicability of the Earth and its processes. Geo-Environmental Science Option II also stresses human impact on Earth with a unit on energy and the environment, placing specific emphasis on current environmental issues and trends. The course includes some independent project and report work coupled with indoor and outdoor laboratory investigations.

Honors Biology – Course #723

Prerequisite: 8th grade Physical Science

1 credit

5 pds/wk

**Please note:**

- ***This course requires an Honors/Advanced Placement contract to be completed.***

This course of study is a hands-on, first year of biology *typically* for ninth grade students. Course objectives are taught in more depth and at a faster pace. Students in Honors Biology are expected to be self-motivated, extremely organized, and ready to take their thinking to the next level on a daily basis. Units include the study of cells at a molecular level, biochemistry, ecology, DNA, genetic inheritance, population genetics, botany, microbiology, classification, and zoology. Honors Biology allows for acceleration in the high school science program. Students enrolled in Honors Biology are **required** to participate in the Carlisle Area Science and Advisory Committee science fair held in January. Grand champion placement in this local fair may lead to students competing in other science competitions through May. Please note that signing up for this course will require the completion of summer coursework. Students selecting this course will be notified of their assignments prior to the end of the school year. Students who do not complete the summer course work may be removed from the course and placed into Geo-Environmental Science. A Keystone Exam will be given at the end of the course.

GRADE 10, 11, AND 12 COURSE OPTIONS**Biology I - Option I - Course #720**

Prerequisite: Geo-Environmental Science

1 credit

5 pds/wk

This course of study provides an in-depth understanding of Biology through many hands-on activities. This rigorous course focuses on the following units of study; the scientific method, ecology, cells, biochemistry, microbiology, genetics, DNA inheritance, classification, and a comparative look at invertebrate and vertebrate organisms. Topics are investigated through group and individual projects and laboratory exercises. A Keystone Exam will be given at the end of the course.

Biology I - Option II – Course #721

Prerequisite: Geo-Environmental Science

1 credit

5 pds/wk



This course of study provides an in-depth understanding of Biology through hands-on activities and investigations. It includes the following units of study; the scientific method, ecology, cells, biochemistry, microbiology, genetics, DNA inheritance, classification, and a comparative look at invertebrate and vertebrate organisms. These units of study will require student involvement through laboratory investigations dealing with scientific problem-solving, scientific inquiry, independent student work, and the development of sound student reasoning. A Keystone Exam will be given at the end of the course.

Applied Chemistry – Course #733

Prerequisite: Biology I, Algebra I or Integrated Math I

1 credit

5 pds/wk



Emphasizing student experimentation, this course presents the basic principles of chemistry and relates them to conditions in today's world. Mastery of the language of chemistry (memorization of symbols, ionic and covalent compound formulas and equation writing) is required of all students. The course is designed primarily for students who want exposure to the concepts of chemistry and their relationships to everyday life with mathematic assistance.

Chemistry – Course #732

Prerequisite: Biology I, Algebra I, and Geometry
 Concurrent: Geometry

1 credit
 5 pds/wk



Chemistry covers basic chemistry concepts using both descriptive and mathematical skills. Laboratory experimentation is an integral part of the learning process. This course includes many equations and formulas that require a mastery of basic Algebra I skills. Algebra and equation problem solving using algebraic techniques are found throughout the course.

Honors Chemistry – Course #725

Prerequisite: Biology I, Geometry, & Algebra II
 Concurrent: Algebra II

1 credit
 5 pds/wk

**Please note:**

- ***This course requires an Honors/Advanced Placement contract to be completed.***

This course is designed for science students with strong mathematical backgrounds. This course will take advantage of students' stronger mathematical skills and apply these skills to more challenging problems than those found in Chemistry. Honors Chemistry emphasizes an experimental approach to chemistry, and therefore involves extensive laboratory work. It is important that students have strong writing and communication skills as Honors Chemistry students are required to submit a formal, written laboratory report for each experiment that they conduct. The basic subject material of the curriculum is the same as Chemistry; however, the depth and the complexity of the topics encountered will be explored in greater detail and at a faster pace. This course is recommended for students considering a career in engineering, science or medicine.

Aerospace Engineering (PLTW) – Course #749

Prerequisite: Algebra 1 or Algebra 1A (formerly known as Integrated Math I)

1 credit
 5 pds/wk



Aerospace engineering is the study of the engineering discipline, which develops new technologies for use in aviation, defense systems, and space exploration. This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, a propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles. This is a project-based, hands-on course appropriate for all levels of students. This course satisfies the physical science graduation requirement and satisfies Engineering Program hours. This course counts as a Project Lead the Way course; however, previous enrollment in a PLTW course is not necessary.

Honors Geo-Environmental Science – Course #726

Prerequisite: Biology
 Chemistry

1 credit
 5 pds/wk



Concurrent: Chemistry or Honors Chemistry

Note: This course is designed for students who have not had Geo-Environmental Science in ninth grade. This is **not** a second-year course.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

Designed as a challenging science course for upper classmen, Honors Geo-Environmental Science focuses on the comprehension, application, and evaluation of some general principles in the geologic, geographic, and environmental science fields. This course is newly designed to focus on the relevancy and application of the Earth and its processes. An emphasis is placed

on reading assignments outside of the scheduled class period so that students may apply learned concepts to labs and project work.

Physics – Course #734

Prerequisite: Geometry
Algebra II

1 credit
5 pds/wk



Physics is the study of matter, energy, and the interaction between them. The goal of this course is to expose students to physics concepts that they would encounter in a post-secondary physics course. During the first semester the first students will learn about waves and harmonic motion, which includes sound, light, and color. In the second half of the year students will study mechanics, which is essentially the study of motion. Class time is primarily devoted to problem solving, laboratory investigation, and collaborative learning activities. This course culminates with an amusement park physics project.

Honors Physics – Course #728

Concurrent or prerequisite: Pre-calculus or Calculus

1 credit
5 pds/wk



Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

This course is for high ability students who are interested in pursuing careers in science, technology, engineering, or mathematics (STEM). Topics studied include the following; sound, light, electricity, magnetism, motion, force and energy. The course assumes a strong mathematical background. Investigative style laboratory exercises are of major importance. This course culminates with an amusement park physics project.

Honors Anatomy and Physiology – Course #724

Prerequisites: Biology I

1 credit
5 pds/wk



Concurrent: Chemistry

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

This course is for students who have found success in Biology I and would like to study the biology of the human body. Honors Anatomy and Physiology is highly recommended for students considering a post-secondary education in any life science, medical, or healthcare-related field. Anatomy and physiology is a core course in the Health Careers Academy program of study. Students taking this course will gain an in-depth understanding of the human body. Areas of study will include mechanisms of body homeostasis, tissue physiology, organ system anatomy and physiology, and a study of many diseases of the human body. A fetal pig dissection is completed for comparison with human anatomy. Students will also dissect a sheep brain and a sheep eye. Additional dissections may be completed in this course. A sound understanding of Biology I terminology, concepts and laboratory techniques, as well as good study skills are essential for success in this course. This is a pre-requisite course for Medical Terminology 2. It is recommended, but not required, to consider taking Honors Anatomy & Physiology prior to or at the same time as, Advanced Placement (AP) Biology, as it provides a foundation of information for several parts of the AP Bio curriculum.

ADVANCED PLACEMENT SCIENCE COURSE OFFERINGS:

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***
- *Please look at each course offering to determine the prior and/or concurrent science and/or math courses that are **required** prior to taking the Advanced Placement course.*

AP Physics – Course #745

1 credit

Prerequisite: Physics

5 pds/wk



Calculus (may be concurrent)

This rigorous, calculus-based physics course is for highly motivated, exceptional science students considering a career in physical science or engineering. The course will be devoted to the study of mechanics. Emphasis will be on problem solving and developing a deep understanding of physics concepts. A research project will be required of each student.

AP Chemistry – Course #743

1 credit

Prerequisite: Chemistry

5 pds/wk



Algebra II

This course is for students who, after excelling in science and mathematics, may be considering a career in science, medicine, or engineering. The course involves extensive and challenging laboratory work. Topics include thermodynamics, kinetics, equilibrium, advanced bonding theories, electrochemistry, organic chemistry, coordination chemistry, atomic theory, and analytical chemistry. Students will follow the AP Chemistry syllabus provided by The College Board in preparation for the AP Chemistry examination. Each student is expected to have at least a scientific calculator or preferably a graphing calculator available for class and at home for use in assignments. Students will be expected to complete summer work for Chapters 1-3, with accompanying problem sets. These problem sets will be collected by the teacher on the first day of school.

AP Biology – Course #729

1 credit

Prerequisites:

5 pds/wk



Biology I

Chemistry

Algebra II

This course is designed for students who, after excelling in science and mathematics, may be considering a career in science, technology, research, engineering, and/or medicine. This course involves extensive and rigorous laboratory work, and subsequent coursework will focus on curriculum set forth by The College Board. Students enrolled in this course will develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains of study. The student-directed laboratory investigations used throughout the course allow students to apply the seven science practices defined in the AP Biology Curriculum Framework. This course is equivalent to a two-semester college introductory biology course and will prepare students to take the Advanced Placement Exam at the end of the course. It is recommended that students taking this course are enrolled in an upper level math course.

AP Environmental Science – Course #739

Prerequisites:



Biology I
Physical Science (Chemistry or Physics)
Algebra I

1 credit
5 pds/wk

Concurrent: Geo-Environmental Science

The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Major themes that will be discussed and taught in detail, include the following: Earth systems & resources, the living world, population, land & water use, energy resources & consumption, pollution, as well as global change. This course includes a strong laboratory AND field study component. Based on the prerequisites listed, this course is designed for juniors and seniors.

This course is equivalent to a one-semester, introductory environmental science course, and will prepare students to take the Advanced Placement Exam at the end of the course. The AP Environmental Science course is an excellent option for any interested student who has completed two years of high school laboratory science, with one year of Life Science (Biology), and one year of a Physical Science (Chemistry or Physics). Also desirable, but not necessary prior to enrollment, is a course in Earth Science (Geo-Environmental Science). It is recommended that students taking this course are enrolled in an upper level math course due to the quantitative analysis that is required in the course.

SOCIAL STUDIES DEPARTMENT



SOCIAL STUDIES

The three years of required Social Studies are divided into three programmatic options that are geared toward students' post-secondary plans. The Option I selection is designed to address the needs of vocationally-minded students. These students may be planning to go directly into a vocation after graduation, or they may enroll in a technical or trade school. This curriculum will provide an essential background into our heritage and our governmental and economic systems that will help students become useful and productive citizens. The Option II curriculum has been developed with four-year college-bound students in mind. It provides a rigorous academic background that lays the foundation for college-level work in history and civics. An Honors curriculum is also available in 9th and 10th grades for students who demonstrate exceptional interest and ability in social studies and wish to pursue topics in a more rigorous academic setting. Also, juniors and seniors will have the option of choosing certain electives that allow them to explore other more concentrated aspects of social studies. Advanced Placement courses in U.S. and European history and U.S. Government & Politics are also available.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***
- Honors level courses are intended for their respective grade levels (9th & 10th grades), and cannot be used by upper classmen (11th & 12th grades) to take the place of an Advanced Placement (AP) course.

United States History II: 1890-2001
Grade 9

1 credit
5 pds/wk

U.S. History is a graduation requirement for all students. The course is a continuation of U.S. History I in 8th grade. It examines the political, economic, social and international issues that shaped our nation from the bridge to the twentieth century to the new millennium. Units of study include the bridge to the Twentieth Century, imperialism, progress of the new century, World War I, roaring twenties, the Great Depression and New Deal, World War II, beginning of the Cold War, civil rights and the struggle for equality, Vietnam and the counterculture, and the end of the Cold War and the new millennium.

Option I - Course #811

This course is geared toward the vocationally-oriented students. While these students will acquire a core of historical information, the content selection and presentation will have a more practical application. Current issues and problems will be analyzed and discussed in the context of the historical roots of these topics. Fundamental social studies skills that are useful before and after graduation will be emphasized.

Option II - Course #812



This course is intended to provide college-bound students with a broad and in-depth analysis of the key people and events of United States history. The course will progress chronologically, but it will examine broad themes that link history to the present. The course will give students the academic background for work in college-level courses, including critical thinking and writing.

Honors - Course #829

Prerequisite: U.S. History I in 8th grade and meeting specified criteria



This course is intended to provide students who demonstrate exceptional interest and ability in social studies the opportunity to pursue topics on a more collegiate level. The course is designed for students with superior verbal skills, strong self-motivation, the ability to read and learn rapidly, and the willingness to encounter challenges beyond the regular Option II classroom. A special focus is placed on the interpretations of primary sources. Additionally, the course will highlight various relevant historical skills that are necessary for Advanced Placement courses and the study of history at the post-secondary level. Students will be required to participate in the National History Day program as part of their major research project for the year. This course is strongly recommended for students who may want to elect AP courses in their 11th and 12th grade years. Students should expect at least 30-60 minutes of homework per evening.

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

World History: 1500-1950
Grade 10

1 credit
5 pds/wk

World History is a graduation requirement for all students. This course begins with a review of ancient and medieval history. This introduction is followed by a survey of world history and includes units on the Renaissance and Reformation, Empires of Asia, the Age of Absolutism, the Enlightenment, the Age of Industry, Imperialism, World War I, Nationalism in Asia, Africa, and Latin America, and World War II. The Cold War is introduced in this course from a world history perspective.

Option I - Course #826

This course is geared toward vocationally-oriented students. While these students acquire a core of historical information, the content selection and presentation will have a more practical application. Current issues and problems will be analyzed and discussed in the context of the historical roots of these topics. Fundamental social studies skills that are useful before and after graduation will be emphasized.

Option II - Course #827



This course is intended to provide college-bound students with an in-depth analysis of the key people and events of European history. The course will progress chronologically, but it will examine broad themes that link history to the present. The course will give students the academic background for work in college-level courses, including critical thinking and writing. It will also serve as a foundation for the Advanced Placement courses.

Honors - Course #830

Prerequisite: U.S. History – Option II or Honors and meeting specified criteria



This course is intended to provide students who demonstrate exceptional interest and ability in social studies the opportunity to pursue topics on a more collegiate-level. The course is designed for students with superior verbal skills, strong self-motivation, the ability to read and learn rapidly, and the willingness to encounter challenges beyond the regular Option II classroom. A special focus is placed on the interpretations of primary sources. Additionally, the course will highlight various relevant historical skills that are necessary for Advanced Placement courses and the study of history at the post-secondary level. Students will be required to participate in the National History Day program as part of their major research project for the year. It is strongly recommended for students who may want to elect AP courses in their 11th and 12th grade years. *Students should expect at least 30-60 minutes of homework per evening.*

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

Civics
Grade 11

1 credit
5 pds/wk

Civics is a graduation requirement for all students not enrolled in an AP social studies course in their junior year. This course is designed to meet the Pennsylvania Standards in Civics and Economics. It is intended to promote good citizenship through a study of the inner workings of our political and economic systems. Specifically, the course will explore the historical roots of Pennsylvanian and American government and their Constitutional foundations as well as provide an in-depth look at the institutions of government, the lawmaking process, campaigns and elections, and the nature of civic participation. The course will also examine the development of public policy in the areas of economics, social policy, and national security. This public policy part of the course will allow students to study basic economic concepts such as supply and demand, financial markets, and fiscal and monetary policy.

Please note that all students enrolled in Civics are required to complete six hours of community service with an approved service organization.

Option I - Course #839

This course is designed with vocationally-oriented students in mind. It examines the economic and governmental issues noted above from a real-world perspective. Since many of these students will be entering the work force after they graduate, practical lessons in active citizenship will be stressed.

Option II - Course #840



This course is designed with college-bound students in mind. The concepts and pace will provide a solid academic background in American government and public policy, preparing students for more advanced studies at the college-level, as well as helping them to become intelligent decision-makers and active participants in our current political and economic world.

NOTE: All graduates must take four credits of social studies, mathematics, or science. Although the social studies department does not require a fourth course, it does offer a number of electives that could meet this graduation requirement. These electives are not organized by options, and any junior or senior may select them. Note: Advanced Placement courses have admissions criteria.

Full Year Electives

Advanced Placement United States History
Advanced Placement European History
Advanced Placement U.S. Government and Politics
Advanced Placement Seminar
Advanced Placement Research
Psychology
Sociology
Anthropology
World Geography
Law & Modern Issues

AP European History - Course #853
Grades 11-12

1 credit
5 pds/wk



European History deals in-depth with the Renaissance, the Reformation, the Enlightenment, the French Revolution, Nationalism 1859-1871, the advent of the “isms,” Balance of Power, the World Wars, and Europe after 1945. Students will gain a factual basis for interpreting selected problems in European history. Although much of class time will be devoted to discussion, lecture, and analysis, students will be expected to read extensively outside of class and to write book reports, essays, and major papers. Students will be taught the tools and techniques of scholarship. This course prepares students interested in taking the Advanced Placement examination. *Students should expect 30-60 minutes of homework per night.*

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

AP United States History – Course #852

Grades 11-12

1 credit

5 pds/wk



United States History deals in depth with the Colonial Period, the American Revolution, the New Republic, the Jacksonian Period, Civil War and Reconstruction, Populism and Progressivism, the New Deal, the global crisis of 1921-45, and international and domestic change up to the present. Students will gain a factual basis for interpreting selected problems in American history. Although much of the class time is devoted to discussion, lecture, and analysis, students will be expected to read extensively outside of class. Students will learn to assess historical materials (their relevance to a given interpretive problem, their reliability, and their importance) and to weigh the evidence and interpretations presented in historic scholarship. This course prepares students interested in taking the Advanced Placement examination. *Students should expect 30-60 minutes of homework per night.*

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

AP U.S. Government and Politics - Course #854

Grades 11-12

1 credit

5 pds/wk



This course has been redesigned by the College Board for the 2018-2019 school year. AP Government and Politics is a college-level introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the Constitutional system and political culture of the United States. Students will read and analyze 9 or more U.S. foundational documents, dozens of Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions between political institutions and behavior. **NOTE:** As required by the College Board, students will need to complete a research project or investigation relating to a political problem or current issue to the course content. *Students should expect 30-60 minutes of homework per night.*

Please note:

- ***This course requires an Honors/Advanced Placement contract to be completed.***

Psychology - Course #850

Grades 11-12

1 credit

5 pds/wk



This introductory psychology course could be called “The Brain: A User’s Guide” or “How to Use Your Brain to Run Your Life.” This course will provide students with new and innovative techniques of common sense psychology to enhance performance in school, athletics, and life. The core curriculum for the course centers on developmental psychology, sensory perception, altered states of consciousness, and mental illness.

Numerous activities including role-play, reading, self-tests, projects, experiments, original research, and others are used to transfer theory to practical application. Guest speakers are also part of the course.

Sociology - Course #851

Grades 11-12

1 credit

5 pds/wk



This course is an introduction to the discipline of sociology. The primary goal of the course is to help students better understand human behavior. Students will first be introduced to the theoretical perspectives that provide the foundation of most sociological inquiry. Students will then apply this knowledge to a number of topics. For example, students will study and explain how the social structure of businesses, such as McDonald's, affects the behavior of both its employees and its customers. In addition, students will study and analyze the causes of criminal behavior and then evaluate the effectiveness of society's varied responses to crime. Additional areas of study include racial and ethnic relations, issues in contemporary education, dating and marriage, religion, politics, and the mass media -to name a few. Finally, this course will help students understand how their identity is shaped by various social forces.

Anthropology - Course #862

Grades 11-12

1 credit

5 pds/wk



This course is an examination of human beings and their culture, both past and present. Anthropology looks at the characteristics and origins of the cultural, social and physical development of humans. The course will present students with a broad introduction to the study of anthropology, but will focus on the fields of cultural anthropology and archaeology. Students will be introduced to a variety of activities to gain an understanding of what this field of study can offer and learn to apply their observational skills to real-life studies, both in the classroom setting and "in the field."

World Geography - Course #823

Grades 11-12

1 credit

5 pds/wk



The purpose of this course is to provide a physical and cultural geographic background for events that have shaped the boundaries and territories of the world since 1945. The course will begin with a reintroduction to key geographical concepts and terms. The main focus of the course will be on how physical and cultural geography have shaped and impacted the ever-changing political landscapes of the world around us. The course will conclude with an examination of how cultural/ethnic groups and international organizations may further shape the political landscapes of the 21st century.

Law and Modern Issues Course #820

Grades 11-12

1 credit

5 pds/wk



This course provides students with an overview of tort, criminal, consumer, and family law. Some of the topics include the values underlying the law, lawmaking, legal protections within the Bill of Rights, and the judicial process from arrest to sentencing, prisons and correction, the death penalty, types of tort law and individual responsibilities, and tort reform. Students will examine specific court cases to help them better understand how the terms and concepts of the legal system are applied to the real world. The goal of this course is to help students gain an understanding of and appreciation for the judicial process and its struggle to balance the rights of the individual with the preservation of social order.

SPECIAL EDUCATION DEPARTMENT



Basic English 9 - Course #800

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk



This class is designed for students who have not mastered basic skills in the language arts area. Students will acquire appropriate skills in reading, writing, spelling, and vocabulary related to state academic standards and their Individual Educational Program Plan goals. Students are introduced to the purposes of writing to include narrative, informative, persuasive, informal and creative selections. The instructional approach emphasizes encouragement and confidence in student abilities. A multi-modality instructional approach is used.

Basic English 10 - Course #802

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk



This class is designed to provide reinforcement of Basic English 9 skills. Topics include a review of grammar, mechanics, and usage. Students will acquire appropriate skills in reading, writing, spelling, and vocabulary related to state academic standards and their Individual Educational Program Plan goals. Students are expected to write at the mastery level of several purposes including but not limited to narrative, informative, persuasive, informal and creative selections. Students also study vocabulary and literature. Emphasis is placed on practical application skills in school and elsewhere. The instructional approach emphasizes encouragement and confidence in student abilities. A multi-modality instructional approach is used.

Basic English 11 - Course #805

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk



This class is designed to provide reinforcement of basic skills in writing, grammar, usage, spelling, critical reading, and organizational skills. Literature is a major component of this course with an emphasis on novels that are relative to lives of high school students.

Basic English 12 - Course #807

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk



This class is designed to provide reinforcement of basic skills in writing, grammar, usage, spelling, critical reading and organizational skills. Literature is a major component of this course with an emphasis on fiction and non-fiction works. Students will develop a personal resume along with researching, note-taking, and writing a research paper about their chosen career.

Algebra IA-LS – Course #790

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk



This course is designed for students who struggled with Middle School Math and/or were not proficient or above on the 8th grade PSSA assessment. This course is part 1 of a 2-year sequence of algebra. In this course, the topics from the first half of Algebra I are covered and therefore, more time is allocated for activities, discovery-learning and differentiation. The course is arranged in a way that helps students make connections between the Algebra they are learning and real life applications. After successful completion of this course, students will take Algebra IB which will cover the second half of Algebra I.

Integrated Math II-LS - Course #791

1 credit

Prerequisite: Integrated Math I and recommendation of the IEP team

5 pds/wk

This course will focus on the basic mathematical operations associated with algebra with a learn-by-doing approach. Time will be spent developing more advanced concepts such as strategies to solve problems involving percents, ratio and proportion problems, motion problems, age problems, money and time problems, and work-related problems. Time will also be spent developing skills related to personal finance (bank accounts, consumer finance, best buys, and property/income taxes). The major focus of the class is solving everyday problems using algebraic problem-solving strategies.

Integrated Math III-LS - Course #792

1 credit

Prerequisite: Integrated Math II and recommendation of the IEP team

5 pds/wk

This course will focus on the basic mathematical operations associated with algebra with a learn-by-doing approach. Time will be spent developing more advanced concepts such as strategies to solve banking problems such as simple interest, loans, mortgages, formulas and compound interest, and annual yield. Students will also learn about probability, odds, and descriptive statistics using graphs and charts. The major focus of the class is solving everyday problems using algebraic problem-solving strategies.

Integrated Math IV-LS - Course #793

1 credit

Prerequisite: Integrated Math III and recommendation of the IEP team

5 pds/wk

This course will focus on the basic mathematical operations associated with geometry with a learn-by-doing approach. Time will be spent developing skills and concepts related to understanding angles and angle-distance relationships, calculating real life quantities such as perimeters, areas and volumes, and understanding how to read maps and charts. The major focus of the program is solving everyday problems using geometry problem-solving strategies.

Career Education/Work Experience - Course #881

1-3 credits

Prerequisite: Recommendation of the IEP team

5-15 pds/wk

Grades 11-12

Career Education provides secondary students with an understanding of job-seeking skills, employer practices, and the positive worker characteristics necessary to retain employment. Employability of students improves through occupational skill training and on-the-job work experience. Daily follow-along support services provided by local program staff greatly increase the potential for employment success. Job sites are developed by the school district in cooperation with local businesses.

The Work Experience Education portion of the program combines paid employment or unpaid volunteer experiences. It is expected that the student will find employment or a volunteer position that will last the entire school year. Weekly follow-along support services provided by local program staff greatly increase the potential for employment success.

Occupational English - Course #865

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

Grades 9-12

Occupational English is an English course designed to develop reading, writing, vocabulary, spelling, oral communication and grammar skills students will need for competitive employment. Students will practice increasing grade level reading and writing skills through the use of short stories, poetry, novels, newspapers, and magazines.

Connected Math - Course codes vary. Please see your counselor for information.

Prerequisite: Recommendation of the IEP team 1 credit
 Grades 9-12 5pds/wk

Connected Math provides a thorough understanding of basic skills, shows how mathematical concepts are linked together, and builds sophisticated problem-solving strategies. Students move forward in small steps, knowing that what they learn has utility because they will use it again and again. Detailed explanations and guided practice move students toward independent work, ensuring that students gain success and confidence as mathematical thinkers. Students are pre-tested for proper placement. Instruction is based on the individual goals and objectives of each student's Individual Education Plan (IEP), in combination with state/district standards for each grade level.

English 9S - Course #3009 1 credit
 Prerequisite: Recommendation of the IEP team 5 pds/wk

Students will learn English as per Individual Educational Program goals and objectives.

English 10S - Course #3010 1 credit
 Prerequisite: Recommendation of the IEP team 5 pds/wk

Students will learn English as per Individual Educational Program goals and objectives.

English 11S - Course #3011 1 credit
 Prerequisite: Recommendation of the IEP team 5 pds/wk

Students will develop English skills and concepts as per Individual Educational Program Plan goals and objectives.

English 12S - Course #3012 1 credit
 Prerequisite: Recommendation of the IEP team 5 pds/wk

Students will develop English skills and concepts as per Individual Educational Program Plan goals and objectives.

Mathematics 9S - Course #3109 1 credit
 Prerequisite: Recommendation of the IEP team 5 pds/wk

Students will learn Mathematics as per Individual Educational Program goals and objectives.

Mathematics 10S - Course #3110 1 credit
 Prerequisite: Recommendation of the IEP team 5 pds/wk

Students will learn Mathematics as per Individual Educational Program goals and objectives.

Mathematics 11S - Course #3111 1 credit
 Prerequisite: Recommendation of the IEP team 5 pds/wk

Students will learn Mathematics as per Individual Educational Program goals and objectives.

Mathematics 12S - Course #3112 1 credit
 Prerequisite: Recommendation of the IEP team 5 pds/wk

Students will learn Mathematics as per Individual Educational Program goals and objectives.

Science 9S - Course #3309

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

Students will learn general science as per Individual Educational Program goals and objectives.

Science 10S - Course #3310

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

Students will learn general science as per Individual Educational Program goals and objectives.

Science 11S - Course #3311

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

Students will develop science skills and concepts as per Individual Educational Program Plan goals and objectives.

Science 12S - Course #3312

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

Students will develop science skills and concepts as per Individual Educational Program Plan goals and objectives.

Social Studies 9S - Course #3209

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

Students will learn U.S. History as per Individual Educational Program Plan goals and objectives.

Social Studies 10S - Course #3210

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

Students will learn World History as per Individual Educational Program Plan goals and objectives.

Social Studies 11S - Course #3211

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

Students will develop social studies skills and concepts as per Individual Educational Program Plan goals and objectives.

Social Studies 12S - Course #3212

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

Students will develop social studies skills and concepts as per Individual Educational Program Plan goals and objectives.

Basic Studies 9/10 - Course #3700

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

This is a course that allows students to receive teacher assistance on homework, projects, and test taking. They will be expected to do assigned work at this time. Additional work will be assigned by the teacher to assist in the development of study skills.

Basic Studies 11/12 - Course #3701

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

This is a course that allows students to receive teacher assistance on homework, projects, and test taking. They will be expected to do assigned work at this time. Additional work will be assigned by the study skills teacher to assist in the development of study skills.

Academic Support – Course #3706

1 credit

Prerequisite: Recommendation of the IEP team

5 pds/wk

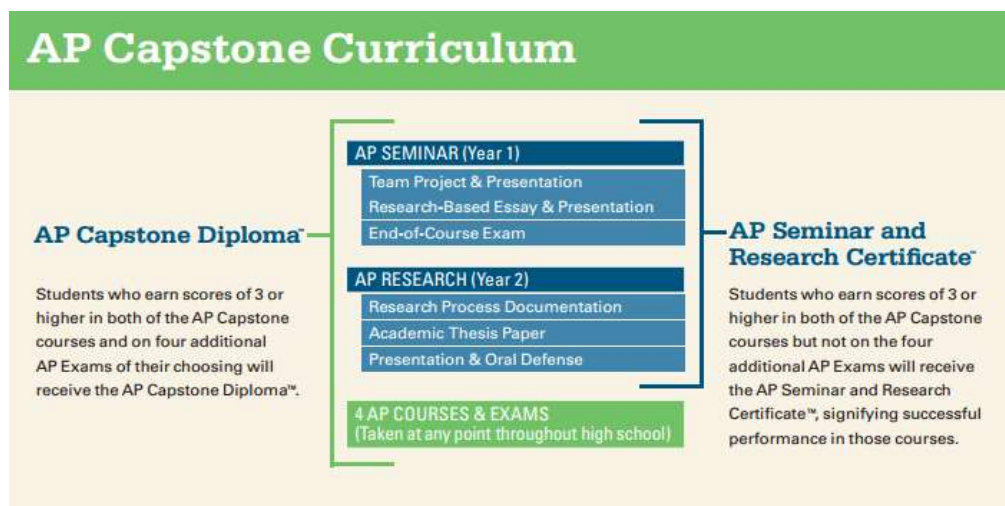
A highly structured one credit class in which students are given the opportunity to complete individual assignments and projects under the direct supervision and guidance of a special education teacher. Students would be able to utilize the academic environment to access school resources and complete work that is required. The expectation for all students would include coming to class with all the necessary work and materials, using the academic time effectively and adhering to behavioral and academic expectations. Student enrollment in the class would be based upon the decision of the IEP team.

SPECIAL PROGRAM OFFERINGS



AP Capstone Program

Students are able to participate in an innovative diploma program that helps them stand out in the college admissions process by developing the critical skills needed to succeed in college and in life. Two courses – AP Seminar and AP Research allow students to immerse themselves in topics that matter to them while developing the analytic, research, problem-solving, and communication skills that colleges seek in their applicants. This challenging program helps students deepen their passion for learning, gives them greater confidence in their academic skills, and provides a broader perspective in their world. Students take AP Seminar in the 10th or 11th grade followed by AP Research. Students who earn scores of 3 or higher on the AP Seminar and AP Research Exams and on four additional AP Exams of their choosing will receive the AP Capstone Diploma, which signifies outstanding academic achievement and attainment of college-level academic research and skills. Students are not required to take both AP Capstone programs, but it is highly recommended.



AP Seminar – Course #1000

Grades 10-12

1 credit
5 pds/week

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. **Please note: If a student selects an Honors or Advanced Placement course, a "Student & Parent Agreement for Enrollment in Advanced Courses" form must be completed online by the student and parent. Students will be directed during the Course Selection process where to find this online form.**

AP Research – Course #1001

Grades 11-12

1 credit
5 pds/week

Prerequisite - students must have successfully completed the AP Seminar course prior to taking AP Research.

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. ***Please note: If a student selects an Honors or Advanced Placement course, a “Student & Parent Agreement for Enrollment in Advanced Courses” form must be completed online by the student and parent. Students will be directed during the Course Selection process where to find this online form.***

Central Pennsylvania Youth Ballet (CPYB)

1 credit
5-10 pds/wk

The Central Pennsylvania Youth ballet (CPYB) has grown from a small, local dance studio to an internationally renowned classical ballet school and performing arts company. CPYB leadership provides exceptional dance training for beginning to pre-professional dancers and enhances the cultural climate of the region through ballet performances. CPYB has *recognized status* with the Carlisle Area School District which offers an early-dismissal program for CPYB dancers in grades 9-12. Dancers who are part of this program receive credit for physical education and for their study at CPYB. Students in CPYB's programs must take a minimum of 15 hours of ballet classes per week. In addition, dancers must be enrolled in five full 1 credit courses at CHS. Dancers in this program must maintain a good academic standing and their required number of ballet classes to continue participation in this special program.

Carlisle Virtual Academy (CVA)

The Carlisle Virtual Academy (CVA) is the district equivalent of a total online educational program of studies most closely paralleling a “cyber-school” experience. Academy students have the opportunity to obtain a regular Carlisle High School Diploma by completing all graduation requirements stated in the Academy Online – Educational Planning Guide manual (curriculum guide). This option also provides students with access to activities and services available to students attending the traditional educational program of studies in accordance with established board policy and administrative guidelines.

Students who enroll in the Carlisle Virtual Academy's – Academy Online learning component receive the following benefits:

- Upon successful completion of the online education program, students receive a regular Carlisle High School Diploma.
- All students have access to activities and services afforded to students enrolled in the traditional educational program.
- High-quality, standards-aligned curriculum.
- All courses follow the same basic format with visual links.
- Options to blend virtual program with traditional course delivery in areas such as music, art, and Career & Technology Education opportunities.
- All students are provided with an academic mentor who oversees their educational program as well as instructional, counseling, library, and technical services.
- All students are provided with technology support and instructional support to facilitate academic progress and success with respect to their educational programs of studies.
- Laptop OR reimbursement of up to \$500.00 per semester is available to all CVA-AO students for expenses incurred by the students/parents related specifically to this educational program option. Examples of related expense are computer hardware

and/or software, internet access (connection) fees, educational supplies related to course work, educational (field) trips related to courses of study, and fees for physical education programs. Details are available from the Virtual Administrator.

- Tuition Free

Driver's Education – Behind the Wheel Training

Non-credit

Contact the driver's education teacher to schedule 6 hours of behind-the-wheel instruction. This course is not Safety Education which is a graduation requirement.

Instrumental Music Lessons

Non-credit

Contact your instrumental music teacher for specific information.

Oracle (Yearbook) - Course #460

Prerequisite: Approval of the teacher, Mrs. Muir, at course selection time
Grades 9-12

1 credit
5 pds/wk

This course is designed as a hands-on, laboratory experience, with students actively engaged in the production of the yearbook, *Oracle*. If you have an aptitude in writing, photography, research, interviewing, and/or computer design and are interested in preserving the history of Carlisle High School, please consider joining our staff. Preference will be given to students who have shown cooperation, dependability and an aptitude in one of the skill areas mentioned. Students will work on various other school publications after production of the yearbook is completed. As a member of the staff, students should expect to have individual and group assignments, which may include afterschool activities. Please see Mrs. Muir for more information and application.

Periscope (News Magazine/Website) – Course #470

Prerequisite: Approval of the teacher, Mrs. Kate Muir,
at course selection time

Grades 9-12

1 credit
5 pds/wk

This course is designed as a hands-on, laboratory experience, with students actively engaged in the production of *Periscope*, both a print school news magazine and a news website. Students should expect to spend time outside of the regular school day working on activities related to the production of these publications. This course explores journalism form and function including: journalistic style and elements of a news story; interviewing; writing news, features, editorials, and sports stories; writing headlines and captions; copy-editing; layout and web design; advertising; photojournalism; and press law and ethics. Please see Mrs. Muir for more information and application.

Summer School (enrichment offerings)

Enrichment courses are held for a total of 100 hours. In the event that a science course would run as a summer school enrichment offering, additional hours may be applied to account for science labs. Depending on need and teacher availability, other courses may run in various subject areas. A complete listing of summer school enrichment courses is available from the director in late spring.

Notes:

1. There is a cost for all enrichment courses.
2. Information on all summer school offerings is available through the Director of Summer School and the building counseling centers in the spring of the year.

Dates: June - July (specific dates will be announced in the spring)

Days: Monday through Thursday

WORLD LANGUAGE DEPARTMENT



Explanation of Program Options

The academic, social, and economic needs of individuals and the nation have contributed to the importance of learning at least one foreign language. In order to be competitive in their preparation for college or for many careers, it is recommended that students elect and continue the study of a foreign language throughout high school and into post-secondary studies whenever possible.

Please note that at times it is necessary to combine upper level courses because of limited enrollments. This factor is not always known at the time students are making selections. If this issue is a concern, please discuss it with the school counselors, principals, or the World Language Program Chair.

French I - Course #301

No prerequisite

Grades 9-12

1 credit

5 pds/wk



This course follows the same curriculum as French 8 offered at the middle schools. It is suggested that students who were academically successful in French 8 and who have obtained the recommendation of their middle school teacher and wish to continue to study French in high school select French II.

French I is an introduction to French language and culture. The course builds the foundation for communication by speaking, reading, writing, and understanding written and spoken French. Students will learn to communicate in everyday situations through dialogues, oral presentations, and projects. Vocabulary and the fundamentals of grammar are acquired and practiced through readings, dialogues, conversations, video scenes, songs, and authentic resources. Students will use the target language to discuss their preferences and their daily life. The discussion of Francophone life and the cultural aspects of the French language form an integral part of the course.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

French II - Course #302

Prerequisite: French I / French 8 (with a C or above recommended)

Grades 9-12

1 credit

5 pds/wk



French II builds on the foundation of French I with increased emphasis on using the target language to communicate. Students continue to develop proficiency in listening, speaking, reading, and writing. Students will build on the vocabulary and grammar introduced in French 1 through more complex reading and listening activities. Students will work to enhance their communicative competency through dialogues, conversations, directed compositions and stories. Students will use the language to discuss their daily life and the world around them. The cultural aspects of the language and life in the Francophone world will continue to be explored in French II.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

Honors French III - Course #303

Prerequisite: French II and recommendation of French II teacher

Grades 10-12

1 credit

5 pds/wk



Honors French III is an intermediate course, which continues to build proficiency in listening, speaking, reading and writing. There is a greater emphasis on fluency in oral work and a greater refinement of composition and sentence structure in written work. Honors French III aims to develop a higher level of reading comprehension necessary for understanding authentic texts. This course includes an introduction to French literature, art, music and history.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

Honors French IV - Course #311

1 credit

Prerequisite: French III and recommendation of French III teacher
Grades 11-12

5 pds/wk



Honors French IV continues to develop more advanced listening, speaking, reading and writing skills. It includes a basic grammar review and continues to introduce more advanced elements of grammar. It is designed as an introduction to some of the themes found on the Advanced Placement French Language and Culture Exam. As such, there is a greater emphasis on French in the Francophone world. The goal is to provide the student with an active and rewarding learning experience as they continue to strengthen their language skills and develop their cultural competency. Students who complete Honors French IV will be prepared to study Advanced Placement French V or college level French courses.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

AP French - Course #329

1 credit

Prerequisite: French IV and recommendation of French IV teacher
Grades 11-12

5 pds/wk



This course is designed to prepare students for the Advanced Placement French Language and Culture Exam and uses the themes present on the exam as a guide to learning. The ultimate objective of the course is to improve the proficiency for all students in the areas of listening, speaking, reading and writing. Students will continue to develop the ability to understand spoken French in various contexts and to express themselves both orally and in writing with reasonable fluency and accuracy. A wide variety of authentic resources will be used including short stories, novels, films, and numerous print and technological ancillaries. The goal continues to be to provide the student with an active and rewarding learning experience as they continue to strengthen their competencies and love for the French language. Students will be prepared for the AP Exam and college level classes.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

German I – Course #312

1 credit

No prerequisite
Grades 9-12

5 pds/wk



This course follows the same curriculum as German 8 offered at the middle schools. It is suggested that students who were academically successful in German 8 and who have obtained the recommendation of their middle school teacher and wish to continue to study German in high school select German II.

In German I, students acquire the most important parts of a language necessary to survive in a German speaking country. Students practice the four areas of language learning (listening, speaking, reading, and writing) by acquiring vocabulary and learning about grammar. In order

to make the language more meaningful and engaging, students sing songs, play word games, hold conversations, and produce creative projects all in the target language. Students also view videos and read articles direct from the German-speaking realm. Students learn how to express in the target language in everyday situations such as going shopping, ordering food in a restaurant, talking about themselves/family/friends, and expressing preferences and interests.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

German II - Course #313

1 credit

Prerequisite: German I / German 8 (with a C or above recommended)

5 pds/wk

Grades 9-12



German II expands on many of the topics covered in German I allowing students to progress as language learners. Students go beyond the basics of German I vocabulary and grammar, and hone in on authentically communicating in the target language. Students complete realistic tasks and navigate through situations that emulate real world experiences. Students will compare and contrast aspects of German and American culture and language usage. The four skill areas of language learning (listening, speaking, reading, and writing) receive equal emphasis.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

Honors German III - Course #315

1 credit

Prerequisite: German II and recommendation of German II teacher

5 pds/wk

Grades 10-12



This is an intermediate course in which students begin to move from concrete vocabulary to speaking and writing in German. Students will use this vocabulary in dialogues, casual and guided conversations, and directed compositions that are both structured and creative. Students will work with authentic texts and authentic videos to begin using their language skills beyond the classroom. Students will continue to build on the grammatical foundations begun in the first two years, including an emphasis on the major verb tenses. An emphasis will be placed on writing skills in this course.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

Honors German IV - Course #316

1 credit

Prerequisite: German III and recommendation of German III teacher

5 pds/wk

Grades 11-12



At this level of German, the students are capable of reading German newspapers and magazine articles, authentic text materials, non-technical literature such as poetry, dramas, short stories and novellas written by German speakers for German speakers. Students practice oral discussions of current events and current topics of interest as well as using German in casual conversations. Students will continue to work with authentic videos to refine their understanding of spoken German, including dialects of the German language. There are grammar reviews and the introduction of more advanced grammar concepts to aid students in their written and spoken use of the language. An emphasis on geographical, historical, and literary understandings of the people who speak the language will also occur in this course.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

AP German - Course #327

1 credit

Prerequisite: German IV and recommendation of German IV teacher
Grades 11-12

5 pds/wk



In AP German students will continue the study of literature, history, and culture through the reading of various pieces of literature. Grammar concepts from the first four years will be reviewed, including more complex grammar structures, and used as a tool for good communication. Listening skills will be emphasized through the use of authentic videos and recorded materials. Reading and writing skills will continue to be included and built upon, including structured writing focused on current events and creative writing. Students will be expected to speak and write about themes that are important to young adults today and to show a real knowledge of German-speaking people and their lands and cultures. Extensive listening and speaking practice in preparation for the optional Advanced Placement test can be expected.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

Spanish I - Course #305

1 credit

No prerequisite
Grades 9-12

5 pds/wk



This course follows the same curriculum as Spanish 8 offered at the middle schools. It is suggested that students who were academically successful in Spanish 8 and who have obtained the recommendation of their middle school teacher and wish to continue to study Spanish in high school select Spanish II.

Spanish I builds the foundations of language acquisition with an emphasis on use of the target language for communication. Much of the class is conducted in the target language with emphasis on the skills of listening, reading, speaking, and writing. Students will be exposed to grammar lessons as part of interpretive activities to be followed by instruction. Students will be required to demonstrate their proficiency through both prepared presentations and writings as well as impromptu interpersonal conversations. Students will be asked to make cultural and linguistic comparisons, and will be encouraged to find opportunities to use their acquired skills through the exploration of diverse cultures and communities.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

Spanish II - Course #306

1 credit

Prerequisite: Spanish I / Spanish 8 (with a C or above recommended)
Grades 9-12

5 pds/wk



Spanish II builds on the foundations of Spanish I with a continued emphasis on use of the target language for communication. The majority of the class is conducted in the target language with emphasis on the skills of listening, reading, speaking, and writing. Students will be exposed to grammar lessons as part of interpretive activities to be followed by instruction. Students will be required to demonstrate their proficiency through both prepared presentations and writings as well as impromptu interpersonal conversations. Students will be asked to make both cultural and linguistic comparisons at a deeper level than Spanish I, as well as connect to other aspects of life requiring critical thinking and problem solving using the target language. Students will be

encouraged to find opportunities to use their acquired skills through the exploration of diverse cultures and communities.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

Honors Spanish III - Course #317

1 credit

Prerequisite: Spanish II and recommendation of Spanish II teacher
Grades 10-12

5 pds/wk



Honors Spanish III expands upon the rigor of Spanish II with an emphasis on the use of the target language for communication. The majority of the class is conducted in the target language with emphasis on the skills of listening, reading, speaking, and writing. Students will be exposed to grammar lessons as part of interpretive activities to be followed by instruction. Students will be required to demonstrate increased proficiency through both prepared presentations and writings as well as impromptu interpersonal conversations. Students will be asked to make both cultural and linguistic comparisons at a deeper level than Spanish II, as well as connect to other aspects of life requiring critical thinking and problem solving using the target language. Students will be encouraged to find opportunities to use their acquired skills through the exploration of diverse cultures and communities.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

Honors Spanish IV - Course #318

1 credit

Prerequisite: Spanish III and recommendation of Spanish III teacher
Grades 11-12

5 pds/wk



Honors Spanish IV builds on the intermediate-low language proficiency achieved in Spanish I-III. The majority of the class is conducted in the target language with emphasis on interpretive, presentational and interpersonal communication skills. Students will review as well as be presented with new grammar for the purpose of its use in effective communication. Students will be required to demonstrate an increasing degree of intermediate proficiency through prepared presentations and writings as well as impromptu interpersonal conversations. Students will continue to make both cultural and linguistic comparisons, as well as connect to other aspects of life requiring critical thinking and problem solving using the target language. Students will be tasked to use their acquired skills in the exploration of various Hispanic cultures and communities.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

AP Spanish - Course #328

1 credit

Prerequisite: Spanish IV and recommendation of Spanish IV teacher
Grades 11-12

5 pds/wk



AP Spanish builds on the intermediate language proficiency achieved in Spanish I-IV in a holistic study of the six themes of the College Board's Spanish Language & Culture Advanced Placement Exam. The course is conducted entirely in the target language and AP Spanish students are expected to be independently proactive in their pursuit of advanced vocabulary, grammar and Hispanic culture. The reading and listening selections offered in the course represent many authentic literary and auditory sources which are used as the basis for both oral and written communications. Extensive listening, reading, writing and speaking practice opportunities will be presented to prepare students for the optional AP Exam.

*Please note that all language classes require students to speak in the target language as often as possible and often in front of the class.

Chinese I – Course #332

No prerequisite
Grades 9-12

1 credit
5 pds/wk

Chinese I, will emphasize the four areas of language study: listening, speaking, reading and writing. Writing instructions will include both pinyin and Chinese characters. The fundamentals of grammar and vocabulary will be practiced through a variety of techniques. Correct pronunciation of the tonal qualities essential for Chinese comprehension will be of particular focus. In addition to the language, Chinese culture, history and geography will provide a context for lessons.

International Languages and Cultures – Course #320

Prerequisite: No prior language credit
Grades 9-12

1 credit
5 pds/wk

This is an exploratory language program for students who have not previously earned language credit. This course will introduce students to language learning, build awareness and appreciation of other cultures, develop an appreciation for the value of learning another language, and prepare students for potential future language study. Through the study of other languages, students will also gain an enhanced understanding of English. Because each language is studied for only a portion of the course, fluency in the new languages is not an expected outcome.