Course Selections

CONNELLSVILLE AREA SENIOR HIGH 2026-2027

GRADES 9-12

Connellsville
Pennsylvania

Table of Contents

CONNELLSVILLE AREA SCHOOL DISTRICT

MISSION STATEMENT

Through the cooperative efforts of educators, parents, and community, the Connellsville Area School District shall provide a safe, well-maintained and challenging educational environment designed to meet the diverse needs of our school population in order to develop respectful, responsible, knowledgeable students inspired to become successful life-long learners in an ever-changing technological society.

FOREWORD

This guide has been formulated to aid you in making the best possible course selections. Review the course offerings carefully to be sure that you are selecting the courses you need to fulfill graduation requirements, and prepare yourself for your chosen area of work or study.

If you or your parents have any questions about future plans and/or course selections, please consult with your counselor or a staff member. They want to help with these decisions.

NONDISCRIMINATION POLICY

The Connellsville Area School District will not discriminate in its educational programs, activities or employment practices, based on race, color, national origin, sex, sexual preference, disability, age, religion, ancestry, union membership, or any other legally protected classification.

Announcement of this policy is in accordance with state and federal laws, including Title IX of the Education Amendments of 1972, and Sections 503 and 504 of the Rehabilitation Act of 1973.

ADMINISTRATIVE PERSONNEL

ADMINISTRATIVE BUILDING

Mr. Richard Evans .....Superintendent of Schools
Dr. Traci Kuhns.....Assistant to the Superintendent: Curriculum
Mrs. Cherie Routzahn… .....Business Manager
Mr. Michael Parlak.....Director of Security
Mr. Kevin Ghost .....Director of Technology
Mr. Richard Evans.....Director of Athletics and Transportation
Mrs. Julie Bohna…….Director of Special Education

SENIOR HIGH SCHOOL

Mr. Nick Bosnic.....Principal
Mr. Andrew Hedrick. ..... Assistant Principal
Dr. Tammy Stern.....Assistant Principal
Mrs. Beth Angle.....School Counselor
Ms. Sarah Hough.....School Counselor
Mr. Greg Martray.....School Counselor

CAREER & TECHNICAL CENTER

Dr. Jeff McWilliams… .....Director
Mr. Nick Groover..... School Counselor

DISTRICT BELIEF STATEMENT

A. Educational Program

In the Connellsville Area School District, we believe the educational program should continue to be structured so varied and equal opportunities are provided to all students for the more demanding expectations of society.

B. School Climate

In the Connellsville Area School District, we believe the school setting should function as an activity in which adults and students create the wonder of learning with students as the primary focus.

C. Professional Staff

In the Connellsville Area School District, we believe the changes, which are planned in our schools will require new forms of continuous professional development programs to address technical skills, attitudes and responsibilities of the entire professional staff.

D. Community

In the Connellsville Area School District, we believe community support for educational improvements will expand as the school district takes the initiative to establish cooperative relationships both with parents and the business sector.

E. Educational Standards

In the Connellsville Area School District, we believe the trend towards educational standards and student performance which are valued by the community will promote the development of goal-oriented behavior by students.

F. Support Service

In the Connellsville Area School District, we believe the changes being planned for education will require more effective collaboration among support services which are now available in the school district and community.

G. Educational Facilities

In the Connellsville Area School District, we believe the facilities which are now available should be reviewed and continually maintained to assure their adequacy for the proposed changes in the educational programs for students and community.

INTRODUCTION

This course description booklet will assist students and parents/guardians in choosing the best possible schedule for the next year of high school. Please read through the descriptions and information provided to choose the best classes. **What is "best" is based on the student's ability, past achievement, career goals, course prerequisites, and teacher/counselor recommendations.**

REQUIREMENTS FOR GRADUATION

In accordance with the revised Chapter 4 Regulations for the state of Pennsylvania, the following revisions to the Graduation Requirements for the Connellsville Area School District are now in effect:

Requirements for the Class of 2024 and beyond: include completion of secondary level coursework and grades; demonstration of proficiency as determined by the school district, charter or cyber school or AVTS if applicable in each of the state academic standards not assessed by a state assessment; demonstration of proficiency on the English Language Arts (Literature), Algebra I, and Biology Keystone Exams or the necessary remediation.

In accordance with the Comprehensive District Level Plan, the Connellsville Area School District Graduation criteria shall include:

A. Completion of 24.5 Planned Course Credits

In order to graduate from Connellsville Area Senior High School, the following *24.5-credit minimum* course requirements must be completed in **grades 9 - 12.**

Grades 9 through 12 Level (minimum of seven course credits a year/eight scheduled class periods per day**)**

1. 4 English/Language Arts Credits: AP English, Honors English, College Prep English, or English
2. 3 Math Credits: must include Algebra I Part I & Algebra I Part 2 or Algebra I, along with Geometry
3. 3 ½ Social Studies Credits, which must include: Academic American Political and Economic Systems and US History 2/Modern US History
4. 3 Science Credits: must include Biology
5. 3 Semesters of Physical Education grades 9-11: must include swimming
6. ½ credit of Health
7. **Electives scheduled to meet minimum credit requirements

**Note: A credit is a class which meets once a day for 36 weeks per 180-day school year. One-half credit is a class which meets once a day for 18 weeks per 180-day school year. Classes which meet less than every day for 18 weeks shall be awarded a fractional part of a full credit dependent upon the amount of time needed to meet course standards.

According to Chapter 4, in **Grades 7 through 12,** in addition to graduation requirements, the following standards must be addressed:

1. Fine Arts (including music, art, dance and theatre)
2. Family and Consumer Sciences/Industrial Technology
3. Foreign Language
4. Computer Literacy

Career education will be integrated into the program for all students.

B. Financial Literacy :

For the class of 2027 and beyond, all graduates will be state mandated to complete a Financial Literacy course.

C. Keystone Exams:

Parental opt-out – The regulation gives parents/guardians the right to review any state assessment to determine whether the assessment conflicts with their religious beliefs. In asserting a religious objection to the assessment, a parent/guardian must explain the objection in their written request for excusal.

In order to comply with Chapter 4 Regulations (§4.24 relating to the local assessment system), Act 6 and Act 158, the graduation requirements for the class of 2020 and 2021 follow the Connellsville Area School District Policy 217 (Graduation).

Act 158 of 2018 (October 24, 2018) expands the opportunities for students to demonstrate postsecondary readiness through five pathways, starting with the class of 2022. Students are still required to take the Keystone Exams for purposes of federal accountability. The following options are listed for students to meet the state graduation requirement:

Keystone Proficiency Pathway: Student scores proficient or advanced on each Keystone Exam (Algebra I, Literature. And Biology).

Keystone Composite Pathway: Student earns a satisfactory composite score on the Algebra I, Literature, and Biology Keystone Exams (while achieving at least a proficient score on at least one of the three exams and no less than "basic" on the remaining two). The "satisfactory composite score" is determined by the State Board of Education by July 30, 2019.

Alternative Assessment Pathway: Student successfully completes the grade-based requirements for Algebra I, Literature, and Biology **and** one of the following:

a. Attains an established score on an approved alternative assessment (SAT, PSAT, ACT, ASVAB); or
b. Attains a Gold Level on the ACT WorkKeys assessment; or
c. Attains an established score on an International Baccalaureate Diploma Program exam or on an Advanced Placement Program in the academic content area which the student did not achieve a proficient score; or
d. Successfully completes a concurrent enrollment course in the academic content area with each Keystone Exam in which the student did not achieve at least a proficient score; or
e. Successfully completes a pre-apprenticeship program; or
f. Acquires acceptance to an accredited four-year nonprofit institute of higher education with evidence of the ability to enroll.

Evidence Based Pathway: Student successfully completes grade-based requirements for each of the Keystone content areas and provides three pieces of evidence consistent with the student's goals and career plans that include:

a. One of the following:
    a. Attains an established score on the ACT WorkKeys assessment, a SAT subject test, an Advanced Placement Program Exam, or an International Baccalaureate Diploma Program Exam; or
    b. Acquires acceptance to an accredited four-year nonprofit institute of higher education with evidence of the ability to enroll; or
    c. Attains an industry-recognized credential; or
    d. Successfully completes a concurrent enrollment course or postsecondary course; and
b. Two additional pieces of evidence, including more or more of the options listed above,

or;

a. Satisfactory completion of a service learning project
b. A proficient or advanced score on a Keystone Exam
c. A letter guaranteeing full-time employment
d. A certificate of successful completion of an internship, externship, or cooperative education program. Satisfactory compliance with the NCAA's core courses for college-bound student athletes with a minimum GPA of 2.0 or the equivalent.

CTE Pathway: Student completes grade-based requirements for academic content areas associated with each Keystone Exam; and

a. Attains an industry-based competency certification related to their program of study (NIMS, NOCTI); or
b. Demonstrates a high likelihood of success on an approved industry-based competency assessment or readiness for continued meaningful engagement in the CTE Concentrator's program of study.

D. Comprehensive School Counseling Program

In compliance with State standards, students will participate in a comprehensive school counseling program encompassing academic, developmental and career domains. As part of the program, students will complete a series of career-oriented projects throughout the school year

ACADEMIC EXCELLENCE AWARDS

At commencement, seniors attaining a 93 % or better unweighted average in grades 10, 11, and 12 will receive a gold, silver or a bronze pin. The Bronze pin signifies the 93% average for both semesters of one (1) school year. The Silver pin signifies the 93% average for both semesters of two (2) school years. The Gold pin signifies the 93% average for both semesters of three (3) school years.

Student's schedule must include College Prep, Honors or AP English to be eligible in addition to two (2) weighted classes in 10th, and three (3) weighted classes in 11th, and three (3) weighted classes in 12th grade.

GLOBAL SCHOLARS PROGRAM

The Global Scholars Program is an interdisciplinary program that helps cultivate globally minded students who, upon graduation, will be better prepared to negotiate our increasingly international society. This program is sponsored by Pennsylvania State Modern Language Association (PSMLA). Students' opportunities will be enhanced for: • Acceptance to university and other post-secondary programs. In order to receive an award upon graduation, students must satisfy academic requirements, (four years of a foreign language at the high school, along with four approved elective courses) a minimum of four approved extra-curricular activities, twenty approved service hours, along with approved literature/media reviews.

All Global Scholars Courses will be marked with this symbol, in the course selection book. Please refer to the high school counselor's website for more details and the Global Scholars application.

GRADING

Grades are an evaluation of what you have learned. They become part of your permanent record and can provide information to institutions of higher learning, potential employers and the military service. The following grading scale is used:

A = 100% - 90% (excellent)
B = 89% - 80% (good)
C = 79% - 70% (average)
D = 69% - 60% (poor)
E = 59% (failure)
N = No Credit Given*

*No credit given in accordance with Connellsville Area School District attendance policy.

HONOR ROLL SYSTEM

a. The Honor Roll is based on a 4.0 scale, which is calculated on the following term averages:
   Highest Honors - 3.8 – 4.0
   High Honors - 3.5 – 3.79
   Honors - 3.0 – 3.49

b. A student with an "incomplete" will not be eligible for the honor roll. The principal's office will not release the honor roll until after the (10) ten-day make up period has expired.

c. Weighted factors will **not** be used in computing the honor roll.

WEIGHTED GRADE POINT AVERAGE (GPA)

In 2018, Connellsville Area School Board passed a Weighted GPA policy. Starting with the graduating class of 2018, all classes will have a final GPA weight according to the chart below.

	Advanced Placement/CIHS Courses	Honors	College Prep	General
A	5 Points	4.5 Points	4.25 Points	4 Points
B	4 Points	3.5 Points	3.25 Points	3 Points
C	3 Points	2.5 Points	2.25 Points	2 Points
D	2 Points	1.5 Points	1.25 Points	1 Point
E	0 Points	0 Points	0 Points	0 Points

College in High School Courses (CIHS)

The college in the high school enrollment program allows students to earn college credits while taking approved courses in high school. To earn college credit, the student must register through the approved college and earn a "C" or better as well as maintain a 3.0 GPA. Once the course is completed, a transcript can be obtained through the post-secondary school's registrar's office. It is the responsibility of the student to contact the post-secondary school in which they will attend to verify the credits will transfer.

Please note that there are special fees attached to enrolling

All CIHS courses will be marked with this symbol, in the course selection book. Please refer to the high school counselor's website for more details.

NCAA Clearinghouse

Division I Academic Eligibility

To be eligible to compete in NCAA sports during your first year at a Division I school, you must meet **ALL** the following requirements:

- **Earn 16 NCAA-approved**
  - Four years of English.
  - Three years of math (Algebra 1 or higher).
  - Two years of science (including one year of lab, if offered).
  - One additional year of English, math or science.
  - Two years of social science.
  - Four additional years of English, math, science, social science, or world language.
- Complete 10 of your 16 NCAA-approved core-course credits, including seven in English, math or science, before the start of your senior year.
- Complete your 16 NCAA-approved core-course credits in eight academic semesters or four consecutive academic years from the start of ninth grade.
- Earn a minimum 2.3 core-course GPA.
- Submit your final transcript with proof of graduation to the Eligibility Center.

Division II Academic Eligibility

To be eligible to compete in NCAA sports during your first year at a Division II school, you must meet **ALL** the following requirements:

- **Earn 16 NCAA-approved:**
  - Three years of English.
  - Two years of math (Algebra 1 or higher).
  - Two years of science (including one year of lab, if offered).
  - Three additional years of English, math or science.
  - Two years of social science.
  - Four additional years of English, math, science, social science, world language.
- Earn a minimum 2.2 core-course GPA.
- Submit your final transcript with proof of graduation to the Eligibility Center.

All NCAA Clearinghouse approved courses will be signified with this symbol in the course selection book. Students must meet the above requirements to play a DI or DII sport. Please see your school counselor with further questions.

DIPLOMAS

A standard diploma issued to a graduating student shall reflect the successful completion of a program of studies. In addition, a certificate will be awarded to those students who satisfactorily complete a **major area** course of study.

TRANSCRIPTS

A transcript includes a record of classes and final grades for grades 9 through 12. Colleges and many post-secondary programs require an official transcript from the high school. This transcript will be prepared and mailed from the high school. The Connellsville Area School Board adopted a policy on December 5, 1990 to provide each student and former student with three official transcripts for colleges, other post-secondary institutions and prospective employers at no charge. Additional transcripts will cost $3.00 (paid in advance prior to mailing). Checks should be made payable to the Connellsville Area School District. The money will be deposited in the district's general fund. A five-day notice to meet transcript deadlines is requested.

PREPARATION FOR POSTSECONDARY EDUCATION

Financial Aid

Financial aid may be available in many different forms. Financial aid includes scholarships, grants, bank loans or other agencies, or on-campus work study programs. Students who are interested in financial aid to fund their postsecondary experiences should study the institution of choice, find out what is available, and how to proceed with the application process. Financial Aid nights are held every year at the senior high school to help students and parents understand the financial aid process. It is the responsibility of the student to meet deadlines with regard to financial aid. Additional scholarship searches are available in the school counseling office.

Admission to Postsecondary Institutions

Admissions Offices of postsecondary institutions usually consider the following data when determining a student's admission to a program:

Applications:	Each postsecondary institution has its own application process and deadlines. Students must follow the directions carefully.
Record:	A transcript of the student's academic record, senior class schedule, and CAHS profile are sent to the student's choice of postsecondary institutions.
Admission's Tests:	Admission's Officers carefully consider student ACT and/or SAT scores. Students must have their scores sent by the testing company to the postsecondary institution of choice.
Participation in Extra-Curricular Activities:	Some college/postsecondary Admission's Offices require students to submit a resume of extra-curricular and work experiences.
Recommendations:	Some college/postsecondary Admission's offices require students to submit letters of recommendation from teachers, school counselors, coaches, administrators, etc.

STANDARDIZED TESTS

***PSAT/NMSQT**- The Preliminary Scholastic Aptitude Test/National Merit Scholarships Qualifying Test

Duration:	Approximately 2 ½ hours; given in October during the school day.
Taken by:	High school juniors
Given by:	College Entrance Examination Board (CEEB) and National Merit Scholarship Corporation (NMSC)
Frequency:	One time per year (October)
Purpose:	Measure educational development in five areas and establishes eligibility for certain scholarships.

***ACT**- The American College Testing Program

Duration:	3 Hours
Taken by:	High school juniors and seniors
Given by:	ACT (www.actstudent.org)
Frequency:	Six times per year (Saturdays- usually offered in September, October, December, February, April, June)
Purpose:	Used by most colleges for admission purposes

***SAT**

Duration:	Approximately 2 1/2 hours
Taken by:	High school juniors and seniors
Given by:	College Board (www.collegeboard.org)
Frequency:	Seven times per year (Saturdays- offered in August, October, November, December, March, May, June)
Purpose:	Used by most colleges for admissions purposes

***AP TESTS**

Duration:	3 to 4 hours
Taken by:	Optional for students currently enrolled in AP courses
Given by:	College Board (www.collegeboard.org)
Frequency:	One time per year in May
Purpose:	May fulfill college credit requirements
Note:	Testing registration has been changed from the spring to early fall, as per College Board guidelines.

*The publishers for these exams charge a fee. Students who qualify for the free and reduced lunch program may be eligible for discounted rates. See your counselor for more information.

CURRICULUM

In the Comprehensive Plan adopted by the Board of Education in 2019, and compliance with Chapter 4 mandates, there will be ongoing state assessments related to the academic standards. State assessments are required in grades 3 – 8 (in English Language Arts and mathematics on the PSSA), grades 4 and 8 in science (PSSA), and Keystone Exams will be administered upon the students' completion of Biology, Algebra I and Literature (Grade 10).

One of the unique features of the district's plan is the implementation of ***PROGRAM MAJORS*** in the high school for***, MATH/SCIENCE, FAMILY AND CONSUMER SCIENCES/INDUSTRIAL TECHNOLOGY, FINE ARTS, HUMANITIES, AND BUSINESS.***

With a career orientation program beginning at the elementary level and continuing into the junior high and senior high levels, all students will select a discipline area of their choice, and during the junior and senior years, planned courses shall be chosen within that specialized area. Options will also include, **choosing courses from other areas and the flexibility to change majors.**

To receive certification in a major, program requirements must be met by date of graduation.

Please note: Students unable to complete requirements for certification in a major area will still be issued a diploma based upon successful completion of graduation course requirements.

MAJOR AREAS OF STUDY

At the end of the student's sophomore year (10th grade), a **major area** of study shall be declared. These concentrated areas shall include required courses and specific elective courses in order to receive certification in the major area. Courses required for graduation may also apply to meet credits needed for the major certificate (ex: C.P. English counts as a graduation credit and is a required credit for the Humanities major). The major area of concentration section follows this general information section.

All major areas shall include these required credits during **11th and 12th grades:**

A. 1 credit of Math (must include Geometry)
B. 2 credits of English
C. 1 ½ credits of Social Studies
D. 1 credit of Science (must include Biology)
E. 1 semester of Phys. Ed.

(Total required courses = 6 credits out of 16 available credits; 10 credits available for required and open electives.)

FRESHMAN SEMINAR (0.5 Credit – Pass/Fail)

Grade Level: 9

This is a transition course to help all students with the upcoming academic and social high school pressures. Students will work on study skills, like note-taking and organizational strategies, and goal-setting to help successfully transition from high school to their post-secondary option (college, trade school, employment). Social skills, such as conflict resolution, soft skills and team-building will be addressed, along with basic computer skills, budgeting, taxes and social media awareness.

PRODUCTION INTERNSHIP (0.5/1 Credit – Pass/Fail)

Grade Levels: 10, 11, 12

Prerequisite: Teacher recommendation only; Completion of Digital Media 1 & 2

This internship is open to students who have completed Digital Media Productions 1 & 2 and are eager to take on a leadership role in Falcon Productions. Students should be responsible, motivated, and willing to put forth strong effort while working independently and with others. Production Interns work alongside media classes using hands-on equipment, mentoring students who are new to production. Interns model proper equipment use, assist with troubleshooting, and continue developing advanced filming and editing skills as leaders in the production room. Interns also help maintain and organize studio equipment and supplies, supporting an efficient workflow and a professional production environment.

YEARBOOK INTERNSHIP (1 Credit – Pass/Fail)

Grade Levels: 11, 12

Prerequisite: Teacher recommendation only; Completion of Yearbook 1 or 2

The Yearbook Editor Internship is a unique and hands-on opportunity for high school students to take on a leadership role in the creation and production of their school's yearbook. This internship provides students with practical experience in graphic design, photography, project management and organizational skills as they collaborate with peers to capture and commemorate the memorable moments of the academic year. This Internship would be given to a small selection of creative students who have completed Yearbook 2 and showed enthusiasm and a positive attitude towards completing the CAHS Yearbook.

IMEDIA CENTER INTERNSHIP (1 Credit – Pass/Fail)

Grade Levels: 10, 11, 12

This specialized course requires students to exhibit efficient application and practice with the following technologies: Logic Pro X, iMovie software to create and edit videos, Google Photos and Photoshop, Destiny Quest, Fablab equipment, ActivInspire Board and more. This internship will offer an innovation and dynamic learning environment where students are encouraged to learn in a self-directed and collaborative manner.

FAB LAB 1NTERNSHIP (1 Credit – Pass/Fail)

Grade Levels: 10, 11, 12

Prerequisite: **Interest survey to indicate background experience using digital technology and teacher recommendation. Maintaining a "C" average in overall GPA.**

This specialized course requires students to exhibit efficient application and practice with the following technologies: Students must be proficient in Adobe Illustrator, AutoCad, Inventor, Cadworxlive, and/or Aspire. Students must be familiar with the operation and set up of various FabLab machines such as the laser cutter, vinyl cutter, and 3D printer. Students will be required to help setup machines as well as help other students with software and hardware issues.

WORK RELEASE (Up to 3 Credits – Pass/Fail)

Grade levels: 11, 12

Students who qualify will carry a reduced load of classes. Students must meet with their school counselor with proof of a job (Minimum 12 hours a week). After counselor approval, the student will meet with the WEE (Work Experience Evaluator) and they will return their "work study agreement forms", a copy of their work permit and the necessary clearances from their employer. All paperwork will be kept on file with the WEE. The WEE will randomly visit each workplace and check on work performance, scheduled hours worked and address any problems or concerns. A signed form dated will be kept in student file.

ARMY JROTC (1/0.5 Credit – JROTC, 1 Credit - JROTC2, JROTC3 & JROTC4)

Grade levels: 9, 10, 11, 12

The mission of the United States Army Junior Reserve Officer Training Corps (JROTC) Program is "TO MOTIVATE YOUNG PEOPLE TO BE BETTER AMERICAN CITIZENS." The program is offered as an academic elective and the grade received is included in the student's overall grade point average. Major subject areas in the JROTC curriculum area include: Leadership and Patriotism, Communication, Citizenship and History, Life Management Skills, and Physical Fitness.

The JROTC Program of Instruction is based on a systematic progression of learning that is designed for the cadet's development at each grade level. There are four levels.

SUMMER SCHOOL FOR CREDIT AND/OR RECOVERY

Students may utilize Summer School as an opportunity to take additional courses and earn credit through correspondence, on-line services, community colleges, or courses that are offered at other high schools. Students who have failed courses and need to make up courses may also take advantage of the opportunity to complete Summer School studies.

FLEXIBLE SCHEDULING FOR SENIORS

Schedules of senior students may be modified so that seniors only need to report to the senior high campus for the periods in which they have scheduled classes necessary for graduation. Seniors must schedule an appointment with their school counselors to develop a flexible schedule.

EARLY GRADUATION

Students who have earned enough credits for graduation by the end of their junior year or the end of their senior year, may graduate early. Students who meet graduation requirements early may participate in the graduation ceremony at the end of the school year. These students should commence with the senior class or their own class a year later. Participation in the graduation ceremony is optional, and students receive their high school diplomas whether or not they attend the graduation ceremony at the end of the school year.

SCHEDULE CHANGES

1. Changes in students' schedules MAY BE CONSIDERED for the following reasons:
   a. A subject has been failed or not completed since scheduling took place and the course must be repeated.
   b. A student has attended an accredited summer school and successfully passed courses that require a change.
   c. A senior is scheduling cooperative work study (Vocational Tech) necessitating schedule change due to working requirements.
   d. Scheduling conflicts or errors were made by the school or data center during the scheduling process.
   e. A student is assigned to a teacher he/she had previously failed.

2. Students must schedule no less than eight (8) class periods per day based on an 9-period day. Therefore, schedules will be adjusted as necessary to maintain this minimum standard. Students should not have more than five (5) study halls per week.

3. New or additional courses will only be scheduled by the end of the **second week** for the first grading period. A second semester course may be added by the end of the **second week** of the third grading period.

4. **Withdrawal from a course**
   Students may only drop a course by the **end of the fourth week of the first grading period**. A second semester course may be dropped by the end of the fourth week of the third grading period.

   A student who believes he/she has a legitimate reason to drop a course, must obtain a form from his/her school counselor, which will be reviewed after student, teacher, parent input, and signatures. Upon completion and return of the form to the school counselor, a parent conference will be scheduled. Completing the forms does not mean the class will necessarily be dropped. A course withdrawal may also occur at the discretion of the principal. If a withdrawal is granted, a "W" (Withdrawal) will be issued on the student's transcript for the dropped course.

5. If the schedule change occurs as a result of a program level change (i.e. changing from a college preparatory English course to an applied communications course), the student's grade at the time of the schedule change will be transferred. However, if a student wishes to withdraw from a course and the withdrawal is not considered to be a program level change, the student will receive a "W" for the dropped course and an additional course will **not** be scheduled.
   Therefore, it is extremely important that the student and parent understand that a withdrawal from a course could result in the student not being able to earn the 24.5 credits which are necessary for graduation.

6. ***NO*** schedules will be changed for the purpose of requesting a different teacher.

Students and parents should be aware that changing schedules is seldom a positive experience for anyone involved. Every effort should be made to work out difficulties before considering a schedule change.

MAJORS

HUMANITIES DISCIPLINE MAJOR
LANGUAGE ARTS CONCENTRATION

(Note: You must schedule eight courses per day based on an 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- College Prep, Honors English or AP English with teacher approval and grade (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Math (1 credit)
- Science (1 credit)
- Foreign Language (2 credits: one credit in each 11th and 12th grade)
- Fine Arts (2 credits) (Fine Arts Electives in areas of Music, Art, Theatre)
- Public Speaking (.5 credit)
- Etymology (.5 credit)
- Journalism (.5 credit)

Required Electives—Choose one or more credits from the following:

- Psychology 1 (.5 credit)
- Psychology 2 (.5 credit)
- Sociology (1 credit)
- Business Law (.5 credit each)
- PA Local History (.5 credit)
- Journalism - Broadcast Writing & Editing (.5 credit)

SOCIAL SCIENCE CONCENTRATION

(Note: You must schedule eight courses per day based on an 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (2 credits)
- Social Studies (1 credit)
- Physical Education (1 semester)
- Math (1 credit)
- Science (1 credit)
- Sociology (1 credit)
- Psychology 1 (.5 credit)
- Psychology 2 (.5 credit)

Required Electives—Choose two or more credits from the following:

- Etymology (.5 credit)
- Journalism (.5 credit)
- Public Speaking (.5 credit)
- Foreign Language (1 credit)
- Business Law (.5 credit each)
- Fine Arts -- electives in areas of Music, Arts, and Theatre (1 credit)
- PA Local History (.5 credit)
- Psychology 2 (.5 credit)

HUMANITIES DISCIPLINE MAJOR
ADVANCED STUDIES IN HUMANITIES

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

English CP or Honors (2 credits)
Social Studies (1 credit)
Physical Education (1 semester)

Math/Science
Choose four from the following electives:

AP Precalculus or
Precalculus
AP Calculus
Anatomy & Physiology or
Honors Chemistry
AP Biology
Physics
Honors Physics
AP Physics
AP Chemistry
AP Statistics
AP Environmental Science

Language Arts/Social Science/Fine Arts
Choose four from the following electives:

Spanish 3
Spanish 4
Spanish 5
AP Spanish
German 3
Sociology
Honors Art
Symphonic Band*
Concert Choir*
Chamber Ensemble*
AP Government & Politics
AP U.S. History

*One credit only

MATH/SCIENCE DISCIPLINE MAJOR

MATHEMATICS CONCENTRATION

(Note: You must schedule eight courses per day based on an 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1semester)
- AP Precalculus or Precalculus (1 credit)
- AP Calculus (1 credit)
- Anatomy & Physiology (1 credit)
- Academic Chemistry (1 credit)
- or Honors Chemistry (1 credit)
- Physics (1 credit) or Honors Physics (1 credit)

Required Electives—Choose two or more credits from the following:

- Probability and Statistics (.5 credit)
- AP Statistics (1 credit)
- Fab Lab (1 credit)
- Algebra 3(1 credit)
- AP Physics (1 credit)

SCIENCE CONCENTRATION

(Note: You must schedule eight courses per day based on an 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- AP Precalculus or Precalculus (1 credit)
- Anatomy & Physiology (1 credit)
- Academic Chemistry (1 credit)
- or Honors Chemistry (1 credit)
- Physics (1 credit) or Honors Physics (1 credit)

Electives—Choose three or more credits from the following:

- Calculus (1 credit)
- AP Calculus (1 credit)
- AP Statistics (1 credit)
- AP Biology (1 credit)
- AP Chemistry (1 credit)
- AP Environmental Science (1 credit)
- Probability and Statistics (.5 credit)
- Genetics of Forensics (.5 credit)
- Forensics (.5 credit)
- AP Physics (1 credit)
- Advance Health (.5 credit)
- Botany (.5 credit)
- Zoology (.5 credit)
- Computer Science Principles (1 credit)
- AP Computer Science Principles (1 credit)
- Algebra 3 (1 credit)

MATH/SCIENCE DISCIPLINE MAJOR
MATH/SCIENCE CONCENTRATION

(Note: You must schedule eight courses per day based on an 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- AP Precalculus or Precalculus (1 credit)
- AP Calculus (1 credit) or Calculus (1 credit)
- Anatomy & Physiology (1 credit)
- Academic Chemistry (1 credit)
- or Honors Chemistry (1 credit)
- Physics (1 credit) or Honors Physics (1 credit)

Required Electives—Choose three or more credits from the following:

- Probability and Statistics (.5 credit)
- AP Statistics (1 credit)
- AP Physics (1 credit)
- Calculus (1 credit)
- Fab Lab (1 credit)
- Botany (.5 credit)
- Zoology (.5 credit)
- AP Biology (1 credit)
- AP Chemistry (1 credit)
- AP Environmental Science (1 credit)
- Genetics of Forensics (.5 credit)
- Forensics (.5 credit)
- Computer Science Principles (1 credit)
- AP Computer Science Principles (1 credit)
- Algebra 3

BUSINESS DISCIPLINE MAJOR

ACCOUNTING CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses

- English (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Science (1 credit)
- Math (1 credit)
- Accounting (1 credit)
- Business Law (.5 credit)
- Business Strategies in Public Relations (1 credit)
- Microsoft Word/Excel Certification (.5 credit)

Choose 2 or more credits from the following:

- Advanced Accounting (1 credit)
- AP Computer Science Principles (1 credit)
- AP Macroeconomics (1 credit)
- Broadcast Media Operations 1 (1credit)
- Careers in Esports (.5 credit)
- Computer Programming (1 credit)
- Computer Science Principles (1 credit)
- AP Cybersecurity (1 credit)
- Digital Graphic Design (.5 credit)
- Digital Media Productions 1 (.5 credit)
- Digital Media Productions 2 (.5 credit)
- Financial Literacy (.5 credit)
- Intro to Computer Science (.5 credit)
- Podcasting (.5 credit)
- Sales and Entrepreneurships (.5 credit)
- Social Media Marketing (1 credit)
- Web Design (1 credit)
- Yearbook 1 (1 credit)
- Yearbook 2 (1credit)

BUSINESS ADMINISTRATION CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Science (1 credit)
- Math (1 credit)
- Accounting (1 credit)
- Business Strategies in Public Relations (1 credit)
- Financial Literacy (.5 credit)
- Sales and Entrepreneurships (.5 credit)
- Social Media Marketing (1 credit)

The above courses could be required in articulation agreements with certain college programs.

Choose 1 or more credits from the following:

- Advanced Accounting (1 credit)
- AP Computer Science Principles (1 credit)
- AP Macroeconomics (1 credit)
- Broadcast Media Operations 1 (1 credit)
- Business Law (.5 credit)
- Careers in Esports (.5 credit)
- Computer Programming (1 credit)
- Computer Science Principles (1 credit)
- AP Cybersecurity (1 credit)
- Digital Graphic Design (.5 credit)
- Digital Media Productions 1 (.5 credit)
- Digital Media Productions 2 (.5 credit)
- Intro to Computer Science (.5 credit)
- Microsoft Word/Excel Certification (.5 credit)
- Podcasting (.5 credit)
- Web Design (1 credit)
- Yearbook 1 (1 credit)
- Yearbook 2 (1 credit)

BUSINESS DISCIPLINE MAJOR

BUSINESS COMPUTER INFORMATION TECHNOLOGY (BCIT) CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses

- English (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Science (1 credit)
- Math (1 credit)
- Computer Programming (1 credit)
- Computer Science Principles or AP Computer Science Principles (1 credit)
- AP Cybersecurity (1 credit)
- Web Design (1 credit)

Choose 1 or more credits from the following:

- Accounting (1 credit)
- Advanced Accounting (1 credit)
- AP Macroeconomics (1 credit)
- Broadcast Media Operations 1 (1 credit)
- Business Law (.5 credit)
- Business Strategies in Public Relations (1 credit)
- Careers in Esports (.5 credit)
- AP Cybersecurity (1 credit)
- Digital Media Productions 1 (.5 credit)
- Digital Media Productions 2 (.5 credit)
- Financial Literacy (.5 credit)
- Intro to Computer Science (.5 credit)
- Microsoft Excel/
- Word Certification (.5 credit)
- Podcasting (.5 credit)
- Sales and Entrepreneurships (.5 credit)
- Social Media Marketing (1 credit)
- Yearbook 1 (1 credit)
- Yearbook 2 (1 credit)

BUSINESS COMMUNICATION CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses

- English (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Science (1 credit)
- Math (1 credit)
- Broadcast Media Operations 1 (1 credit)
- Digital Media Productions 1 & 2 (1 credit)
- Digital Graphic Design (.5 credit)
- Podcasting (.5 credit)
- Social Media Marketing (1 credit)

Choose 1 or more credits from the following:

- Accounting (1 credit)
- Advanced Accounting (1 credit)
- AP Computer Science Principles
- AP Macroeconomics (1 credit)
- Business Law (.5 credit)
- Business Strategies in Public Relations (1 credit)
- Careers in Esports (.5 credit)
- AP Cybersecurity (1 credit)
- Financial Literacy (.5 credit)
- Intro to Computer Science (.5 credit)
- Sales and Entrepreneurships (.5 credit)
- Web Design (1 credit)
- Yearbook 1 (1 credit)
- Yearbook 2 (1 credit)

TECHNOLOGY EDUCATION DISCIPLINE MAJOR

PRE-ENGINEERING CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (CP or Honors recommended for four year college program) (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- AP Calculus (1 credit)
- Physics (1 credit)
- Fab Lab (1 credit)
- Electronics Technology (0.5 credits)

Required Electives—Choose three or more credits from the following:

- Robotics 1 (1 credit)
- Robotics 2 (1 credit)
- Robotics 3 (1 credit)
- Robotics Modeling (.5 credit)
- Technology In Motion (1 credit)
- IED (1 credit)
- Honors Physics (1 credit)

ENGINEERING TECHNOLOGY CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (CP or Honors recommended for four-year college program) (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Precalculus (1 credit)
- Fab Lab 1 (1 credit)
- Technology In Motion (1 credit)
- Materials Application 1 (1 credit)

Required Electives—Choose three or more credits from the following:

- Materials Application 2 (1 credit)
- Robotics 1 (1 credit)
- Robotics 2 (1 credit)
- Robotics 3 (1 credit)
- Robotics Modeling (.5 credit)
- Electronics Technology (0.5 credits)
- Fab Lab2 (1 credit)
- IED (1 credit)
- POE (1 credit)
- CEA (1 credit)
- EDD (1 credit)

The above courses could be required in articulation agreements with certain college programs.

TECHNOLOGY EDUCATION DISCIPLINE MAJOR
AUTOMATION CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (CP or Honors recommended for four-year college program) (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Math (Algebra 2 and Geometry recommended for four-year college program) (1 credit)
- Robotics 1 (1 credit)
- Robotics 2 (1 credit)
- Robotics 3 (1 credit)
- Technology In Motion (1 credit)

Required Electives—Choose three or more credits from the following:

- Fab Lab(1 credit)
- Materials Application 2(1 credit)
- Robotics Modeling (5. Credit)
- Electronics Technology (0.5 credits)

The above courses could be required in articulation agreements with certain college programs.

TECHNOLOGY EDUCATION DISCIPLINE MAJOR

DIGITAL MODELING & FABRICATION CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10-12)

- English (CP or Honors recommended for four year college program)(2 credits)
- Social Studies (1.5 credit)
- Physical Education (1 semester)
- Math (Algebra 2 and Geometry recommended for four year college program)(1 credit)
- Fab Lab1 (1 credit)
- Fab Lab 2 (1 credit)

Required Electives—Choose three or more credits from the following:

- Technology In Motion (1 credit)
- Robotics Modeling (.5 credit)
- Materials Application 1 (1 credit)
- Materials Application 2 (1 credit)
- Electronics Technology (0.5 credits)

The above courses could be required in articulation agreements with certain college programs.

INDUSTRIAL TECHNOLOGY CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (CP or Honors recommended for four-year college program) (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Math (Algebra 2 and Geometry recommended for four year college program)(1 credit)
- Fab Lab I (1 credit)
- Technology In Motion (1 credit)
- Materials Application 1 (1 credit)
- Materials Application 2 (1 credit)

Required Electives—Choose three or more credits from the following:

- Robotics 1 (1 credit)
- Robotics 2 (1 credit)
- Robotics 3 (1 credit)
- IED (1 credit)
- Electronics Technology (0.5 credits)
- Fab Lab1 (1 credit)
- Fab Lab2 (1 credit)

The above courses could be required in articulation agreements with certain college programs.

TECHNOLOGY EDUCATION DISCIPLINE MAJOR
ELECTRONICS CONCENTRATION

Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 10th grade.)

Required Courses (10-12)

- English (CP or Honors recommended for four-year college program) (3 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Math (1 credit) (Algebra 2 recommended)
- Electronics Technology (0.5 credits)
- Technology In Motion (1 credit)
- Introduction to Networking (1 credit)

Required Electives—Choose three or more credits from the following:

- IED (1 credit)
- Robotics 1 (1 credit)
- Robotics 2 (1 credit)
- Robotics 3 (1 credit)
- Computer Aided Drafting Design I (1 credit)
- Materials Application 1 & 2 (1-2 credits)

The above courses could be required in articulation agreements with certain college programs.

FAMILY AND CONSUMER SCIENCES DISCIPLINE MAJOR

CHILD DEVELOPMENT CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (CP or Honors recommended for four-year college program) (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Math (Algebra 2 and Geometry recommended for four-year college program) (1 credit)
- Science (1 credit)
- Child Development 1 (.5 credit)
- Child Development 2 (1 credit)
- Psychology (.5 credit)

Required Electives—Choose three or more credits from the following:

- History of Rock and Roll (.5 credit)
- Financial Literacy (.5 credit)
- Band (1 credit)
- Chorus (1 credit)
- Sociology (1 credit)
- Accounting (1credit)
- Public Speaking (.5 credit)
- Foods 1 (.5 credit)
- Foods 2 (.5 credit)
- Art (1 credit)
- Piano 1 (.5 credit)
- Piano 2 (.5 credit)
- Piano 3 (.5 credit)

FOODS AND NUTRITION CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (CP or Honors recommended for four-year college program) (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Math (Algebra 2 and Geometry recommended for four-year college program) (1 credit)
- Science (1 credit)
- Advanced Health (.5 credit)
- Foods 1 (.5 credit)
- Foods 2 (.5 credit)
- International Foods (.5 credit)

Required Electives—Choose three or more credits from the following:

- Anatomy & Physiology (1 credit)
- Academic Chemistry (1 credit)
- Honors Chemistry (1 credit)
- Art 1 (1 credit)
- German (1 credit)
- Spanish (1 credit)
- Sales and Entrepreneurships (.5 credit)
- AP Macroeconomics (1 credit)
- Accounting I (.5 credit)
- Accounting II (.5 credit)
- Financial Literacy (.5 credit)

FAMILY AND CONSUMER SCIENCES DISCIPLINE MAJOR

FAMILY AND CONSUMER SCIENCE CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (CP or Honors recommended for four-year college program) (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Math (Algebra 2 and Geometry recommended for four-year college program) (1 credit)
- Science (1 credit)
- Child Development 1 (.5 credit)
- Child Development 2 (1 credit)
- Foods 1 (.5 credit)
- Foods 2 (.5 credit)
- International Foods (.5 credit)
- Beginners Sewing (.5 credit)
- Advanced Sewing (.5 credit)

Required Electives—Choose two or more credits from the following:

- Financial Literacy (.5 credit)
- Advanced Health (.5 credit)
- Psychology (.5 credit)
- Business Law (.5 credit)

FAMILY AND CONSUMER SCIENCES DISCIPLINE MAJOR
HEALTH CARE PARA-PROFESSIONAL CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (CP or Honors recommended for four-year college program) (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Math (Algebra 2 and Geometry recommended for four-year college program) (1 credit)
- Science (1 credit)
- Advanced Health (.5 credit)

Required Electives—Choose four or more credits from the following:

- Anatomy & Physiology (1 credit)
- AP Biology (1 credit)
- Academic Chemistry (1 credit)
- Speaking (.5 credit)
- Business Law (.5 credit)
- Foods 1 (.5 credit)
- Foods 2 (.5 credit)
- International Foods (.5 credit)
- Child Development 1 (.5 credit)
- Child Development 2 (1 credit)
- Psychology (.5 credit) Public
- Sociology (1 credit)

FINE ARTS DISCIPLINE MAJOR

MUSIC CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (CP or Honors recommended for four-year college program) (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Math (Algebra 2, and Geometry recommended for four-year college program) (1 credit)
- Science (1 credit)
- Music Section (Band or Chorus-1 period per week)
- Chorus or Band (1 credit)
- Sight-Singing (.5 credit)
- Class Voice 1 and/or Piano 1 (.5 credit)

Required Electives—Choose four or more credits from the following:

- Class Voice (.5 credit)
- Concert Choir (1 credit)
- Chamber Ensemble (1 credit)
- Concert Band (1 credit)
- Symphonic Band (1 credit)
- Sight-Singing (.5 credit)
- Piano 1 (.5 credit)
- Piano 2 (.5 credit)
- Piano 3 (.5 credit)
- Theatre Appreciation (.5 credit)
- German 1 (1 credit)
- Art (1 credit)
- Belle Choir (1 credit)
- Music Technology (.5 credit)
- Voice 2 (.5 credit)

THEATRE CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Math (1 credit – Algebra 2 and Geometry recommended for a four-year college program)
- Science (1 credit)
- History of Rock and Roll (5. Credit)
- Theatre Appreciation (.5 credit)

Required Electives—Choose four or more credits from the following:

- Concert Choir (1 credit
- Chamber Ensemble (1 credit)
- Advanced Sewing (.5 credit)
- Art (1 credit)
- Fab Lab (1 credit)
- Accounting (1 credit)
- Public Speaking (.5 credit)
- Journalism (.5 credit)
- FX Theatre Makeup (.5 credit)

FINE ARTS DISCIPLINE MAJOR
ART CONCENTRATION

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (11-12)

- English (2 credits)
- Social Studies (1.5 credits)
- Physical Education (1 semester)
- Math (1 credit – Algebra 2 and Geometry recommended for a four-year college program)
- Science (1 credit)
- Advanced Art (1 credit)

Required Electives—Choose 2 or more credits from the following:

- Public Speaking (.5 credit)
- Journalism (.5 credit)
- Fashion and Accessory Design (.5 credit)
- Watercolors 1/2 (.5 credit)
- Pastels 1/2 (.5 credit)

CAREER & TECHNICAL CENTER PROGRAMS

The 9th grade program will consist of two class periods per day at the Career and Technical Center. The 10th grade program will consist of three class periods. The 11th and 12th grade programs will be conducted entirely at the Career and Technical Center.

AUTOMOTIVE COLLISION & REPAIR

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits)
- Math (2 credits) (Algebra, Geometry recommended)
- Auto Collision (8 credits)

AUTOMOTIVE TECHNOLOGY

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits)
- Math (2 credits) (Algebra, Geometry recommended)
- Auto Mechanics (8 credits)

CARPENTRY

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits)
- Math (2 credits) (Algebra, Geometry recommended)
- Carpentry (8 credits)

COMPUTER NETWORKING

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits)
- Math (2 credits) (Algebra 1 recommended)
- Computer Networking (8 credits)

COSMETOLOGY

((Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits) (Anatomy & Physiology and Chemistry recommended)
- Math (2 credits) (Algebra 2 and Geometry recommended for 4-year college)
- Cosmetology (8 credits)

CULINARY ARTS

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits) (Chemistry recommended)
- Math (2 credits)
- Culinary Arts (8 credits)

ELECTRICAL OCCUPATIONS

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits)
- Math (2 credits) (Algebra 1 recommended)
- Electrical Occupations (8 credits)

HEALTH OCCUPATIONS

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits) (Anatomy & Physiology and Chemistry recommended)
- Math (2 credits) (Algebra 2 and Geometry recommended for 4-year college)
- Health Occupations (8 credits)

HEATING VENTILATION AND AIR CONDITIONING

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits)
- Math (2 credits) (Algebra 1 recommended)
- HVAC (8 credits)

HEAVY EQUIPMENT OPERATOR

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits)
- Math (2 credits)
- Heavy Equipment (8 credits)

MASONRY

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits)
- Math (2 credits) (Algebra and Geometry recommended)
- Masonry (8 credits)

METAL FABRICATION AND WELDING

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits)
- Math (2 credits) (Algebra and Geometry recommended)
- Welding (8 credits)

PROTECTIVE SERVICES

(Note: You must schedule eight courses per day based on a 9-period day. Study hall is not considered as a course. Some courses may be completed prior to the 11th grade.)

Required Courses (10, 11, 12)

- English (3 credits)
- Social Studies (2 credits)
- Physical Education (1 semester each year – 10, 11, 12)
- Science (2 credits) (Anatomy & Physiology and Chemistry recommended)
- Math (2 credits) (Algebra 2 and Geometry recommended for 4-year college)
- Protective Services (8 credits)

ENGLISH

Language – written and spoken, heard and read – is central to the business of daily life. Abilities in this area are important to every other subject area.

*****<u>Four</u> core English credits (one each year) are required for graduation**. These courses must be chosen from the AP, honors, college prep or general English programs.

DEPARTMENT CORE COURSES – FOUR REQUIRED								
COURSE TITLE	**YR.**	**SEM.**	**CREDIT**	**9**	**10**	**11**	**12**	**WEIGHTED**
Honors English 9	X		1	X				X
English 9 CP	X		1	X				X
Academic English 9	X		1	X				
Honors English 10	X		1		X			X
English 10 CP	X		1		X			X
Academic English 10	X		1		X			
AP Language & Comp	X		1			X	X	X
Honors English 11	X		1			X		X
English 11 CP	X		1			X		X
Academic English 11	X		1			X		
AP Literature & Comp	X		1			X	X	X
English 12 CP	X		1				X	X
Academic English 12	X		1				X	
DEPARTMENT ELECTIVES								
SAT Prep		X	0.5		X	X	X	P/F
Public Speaking		X	0.5			X	X	
Journalism		X	0.5	X	X	X	X	
Journalism – Broadcast Writing and Editing		X	0.5	X	X	X	X	
Etymology		X	0.5		X	X	X	
Theatre Appreciation		X	0.5		X	X	X	
FX Theatre Makeup		X	0.5		X	X	X	

ENGLISH CORE COURSES

Honors English 9 

Prerequisite: An A in Eighth Grade English, Teacher Approval, Proficient or Advanced on 8th grade PSSA

A ninth grade honors course is required to have a higher rigor than a College Prep course; therefore, it is recommended for students with high abilities in reading and writing as well as excellent organizational and discussion skills. It is designed to examine the writing process, short stories, non-fiction, fiction, drama, and poetry from various authors. Due to this, honors classes will be required to complete more reading¸ writing, and projects than a regular class. The course expectations will be higher and will include higher-level thinking and critical problem solving. It will require students to do independent reading in order for them to come into class and discuss and/or complete projects. Each novel or drama read incorporates vocabulary lessons. In addition, students will be required to read two novels during the summer and use them as a basis to complete related writings and projects. Following the most modern MLA guidelines, students will learn the process of researching. Other written assessments include creative, critical, and reflective pieces.

There are required summer readings and preparation for students who enroll in Honors English courses.

English 9 CP 

Prerequisite: Teacher recommendation

College-bound students are encouraged to take this course. A review of basic English grammar concepts, plus an in-depth study of clauses and verbs, is stressed. Much emphasis is on vocabulary development and enrichment. Literature is taught through the use of novels, short stories, poetry, and a Shakespearean play. In addition, writing skills are emphasized through the paragraph unit, and some outside readings are required.

Academic English 9

General Academic English 9 is a required course which builds upon skills acquired in 8th grade English. In this course students continue to develop their knowledge of the basic elements of literature. This includes the elements of the short story, poetry, non-fiction, drama, and the novel based on world literature. Writing, thinking, and speaking skills will be developed through journaling, essays, discussion, literary analysis, and daily work. Composition, grammar, and vocabulary are an outgrowth of the literature study.

Honors English 10 

Prerequisite: An A in Freshman English, Teacher Approval, Proficient or Advanced on 8th grade PSSA

A tenth grade honors course is required to have a higher rigor than a College Prep course; therefore, it is recommended for students with high abilities in reading and writing as well as excellent organizational and discussion skills. Due to this, honors classes will be required to complete more reading¸ writing, and projects than a regular class. It is designed to examine the writing process, short stories, non-fiction, fiction, drama, and poetry in American Literature. The course expectations will be higher and will include higher-level thinking and critical problem solving. In addition, students will be required to read three novels during the summer and use them as a basis to complete related writings and projects.

There are required summer readings and preparation for students who enroll in Honors English courses.

English 10 CP 

Prerequisite: Teacher recommendation

This is an advanced English class which builds on the skills covered in English 9 CP.
This one year course is designed to give the student thorough English instruction in American Literature in preparation for state exams. It will include a novel study, and practice in grammar/vocabulary as well as skills in writing. Students will also be required to read a number of non-fiction selections in conjunction with the required literature. Students will be expected to complete a variety of writing assignments while reviewing grammar rules, complete a novel study and a drama study and complete a number of writing assignments related to class and individual reading. Students should expect to have homework every night. Any student who is college bound should complete this sequence of courses.

Academic English 10

This is required course which builds on the skills acquired in Academic English 9. Academic English 10 provides students with a developmental program in reading, writing, listening, speaking, and research in preparation for state exams. A variety of novels, plays, poetry, short stories, and non-fiction serve as a basis for the study of American Literature and vocabulary study. Students will be expected to complete a variety of writing assignments while reviewing grammar rules, complete a novel study (and a study of a Shakespearean classic) and complete a number of writing assignments related to class and individual reading. Students will also be expected to complete ten points of outside reading for Accelerated Reader each nine week grading period. Students should expect homework.

AP Language & Composition 

Prerequisite: Teacher recommendation

This AP course in Language and Composition will follow the guidelines stipulated by The College Board and require "expository, analytical, and argumentative writing assignments that are based on readings representing a wide variety of prose styles and genres." The course will emphasize critical thinking, analysis, and synthesis of ideas presented by authors. Students will be reading full-length non-fiction texts throughout the year through their independent reading. In class readings will pull from a broad range of non-fiction essays, film clips, excerpts, political cartoons, editorials, speeches, etc. The instructor will provide direct feedback as well as opportunities for peer review and student self-reflection in order to foster the development of the successful use of rhetorical strategies in students' writing.

The rigor of this course matches that of an introductory college course. As a college-level course, students can expect to have up to an hour and a half of homework nightly, which will largely consist of reading, but may include projects and writing assignments. Discussion of contemporary issues is another hallmark of this course.

There are required summer readings/writing assignments for students who enroll in AP English Language and Composition.

Honors English 11 

Prerequisite: An A in sophomore English, teacher approval, Proficient or Advanced on Keystone Exam

An eleventh grade honors course is required to be more rigor than a College Prep course; therefore, it is recommended for students with high abilities in reading and writing as well as excellent organizational and discussion skills. Due to this, honors classes will be required to complete more reading¸ writing, and projects than a regular class. It is designed to examine the writing process, short stories, non-fiction, fiction, drama, and poetry from various regions around the world. The course expectations will be higher and will include higher-level thinking and critical problem solving. It will require students to do independent reading in order for them to come into class and discuss and/or complete projects. Each novel or drama read incorporates vocabulary lessons. In addition, students will be required to read three novels during the summer and use them as a basis to complete related writings and projects. Following the most modern MLA guidelines, students will learn the process of researching. Other written assessments include creative, critical, and reflective pieces.

There are required summer readings and preparation for students who enroll in Honors English courses.

English 11 CP

Prerequisite: Teacher recommendation

This is an advanced English class which builds on the skills covered in English 10 CP. This one year course is designed to give the student thorough English instruction in American literature, including a novel study, and practice in grammar/vocabulary skills in writing. The students will read, evaluate, interpret, and analyze a variety of literature and poetry while discussing such elements as character development, plot, imagery, figurative language, theme, paradox, setting, the short story, narrative poetry, form, and rhyming patterns. Students will also be required to read a number of non-fiction selections in conjunction with the required literature. Students will be expected to complete a variety of writing assignments while reviewing grammar rules, complete a novel study and a study of classic drama. Students complete a number of writing assignments related to class and individual reading. Students should expect homework every night. Any student who is college bound should complete this sequence of courses.

Academic English 11

This is a required course which builds on the skills acquired in Academic English 10. Academic English 11 provides students with a developmental program in reading, writing, listening, speaking, and research. A variety of novels, plays, poetry, short stories, and non-fiction serve as a basis for the study of American Literature and vocabulary study. Students will be expected to complete a variety of writing assignments while reviewing grammar rules, complete a novel study (and a study of a Shakespearean classic) and complete a number of writing assignments related to class and individual reading. Students should expect to have homework.

AP Literature & Composition

Prerequisite: Teacher recommendation

This is an advanced English course in which the student will undertake an accelerated program of readings, research, reasoning, discussion, and writing aimed at preparing that student to take voluntarily, and at the student's expense, the Advanced Placement exam in English Literature and Composition, offered in May of each year by the College Board. The course outlines and syllabus will be evaluated each year to follow or parallel recommendations for such courses published by the College Board.

English 12 CP

Prerequisite: Teacher recommendation

This is an advanced English class which builds on the skills covered in Academic English 11CP. Writing, thinking and speaking skills will be developed through journaling, essays, and discussion. Intensive study of college vocabulary will be incorporated. Knowledge of British literature will be stressed. Students will learn to read and write aggressively. Any student who is college-bound should complete this sequence of courses.

Academic English 12

Academic English 12 is a required course which builds upon skills acquired in Junior English. Writing, thinking and speaking skills will be incorporated into the class work. In this course students will continue to develop knowledge of the basic elements of British literature. Non-fictional writing will be used as a stepping stone to technical writing understanding. Students will work independently and in groups.

ENGLISH ELECTIVES

Scholastic Aptitude Test (SAT) Preparation Course

Prerequisites: Algebra 1, Geometry and Academic English 9

The SAT Prep Course will prepare students for the SAT Math, Verbal, and Writing sections of the exam. This course will help the student know the SAT test patterns and strategies. It will enrich math concepts in numbers and operations, algebra and functions, geometry and measurement and probability. The course will also enrich English concepts in extended reasoning, critical reading, literal comprehension, vocabulary in context, grammar, and composition.

Grade Scale: Pass/Fail – Students will be required to keep a portfolio of their work during the course.

Public Speaking

Public Speaking is a study of oral communications process. Students gain confidence as they learn to prepare to speak before a group. Students write and speak on topics of interest.

Journalism

This is an introduction to journalism. The course will focus on news values, news reporting, interview skills, layout and design, journalistic integrity/ethics, and story development. Students will enhance their grammar and editing skills along with doing various types of news writing weekly: feature writing, editorial writing, column writing, review writing, and sports writing. The course will culminate with a writing portfolio that students will create using polished versions of the articles they have written throughout the course.

Journalism – Broadcast Writing and Editing

Prerequisite: Journalism

This is a workshop-based course that will take the concepts learned in Journalism and focus on how to adapt them for Broadcast Journalism. It will be an introduction to broadcast writing and editing techniques. Students will be writing weekly articles that they will edit and record as a part of a full newscast. This course runs in conjunction with the Broadcast Media Operations course.

Etymology

Etymology is an introduction to and an in- depth study of the Latin and Greek elements that make up nearly three quarters of the vocabulary of the English language. This course will focus on the study and application of the derivation of English words and word families from their roots in ancient and modern languages by examining roots, prefixes, and suffixes. The connotative and denotative meanings of words in a variety of contexts and the reasons for language change are also analyzed. This course is designed to improve vocabulary skills, promote precision of expression in writing and speaking, and increase the student's appreciation of the historical developments of his or her language because a strong vocabulary is essential to success in class work, on achievement tests (specifically the SAT/ACT), in college, and on the job. Several projects, such as doing a case study on specific words or creating a historical time line of the development of specific words or terms, is required to demonstrate knowledge, application, and progress in the course content.

Theatre Appreciation

This is a course in theatre appreciation that introduces the student to drama, production, and design through practical work in PERFORMANCE (simple exercises in oral interpretation, acting, directing, and audition techniques, play and script interpretation), and STAGECRAFT (the basics of set design, lighting design, and make-up). Course work is designed to give students a basic understanding and appreciation of theatre arts fundamentals.

Prosthetics and FX Theatre Makeup

Prosthetics and FX Theatrical makeup is for the student who is serious about learning techniques of makeup from basic through the creation of latex prosthetics and masks. The course will cover character analysis in light of makeup, the history of makeup, creation of character makeup, wigs, beards, fantastic makeup, prosthetics, masks, and proper care of the skin to prevent blemishes or infection caused by makeup. Each student will make a "life mask" to use in makeup design. Students will demonstrate their learning by designing and producing various makeup projects in each area. Each student will participate in a culminating project which demonstrates his or her level of learning.

SOCIAL STUDIES

Combines the study of history and social sciences, and promotes skills in citizenship. For college-bound students, social studies help in understanding human beings and their social environment, and help understand the context for arts and science.

*****3.5 Credits of Social Studies are required for graduation, which must include Academic American Political and Economic Systems and Academic US History 2/Modern United States History.**

DEPARTMENT CORE COURSES **(All students must pass 1 credit of APES and 1 credit of US History II/Modern United States History)**								
COURSE TITLE	**YR.**	**SEM.**	**CREDIT**	**9**	**10**	**11**	**12**	**WEIGHTED**
APES CP	X		1	X				X
Academic APES	X		1	X				
US History 2 CP/Mod.	X		1		X			X
Academic US History 2/Mod.	X		1		X			
DEPARTMENT ELECTIVES **(1Credit of an elective is required for graduation.)**								
PA Local History		X	0.5	X	X	X	X	
US History 3	X					X	X	
World Cultures	X		1			X	X	
AP Government	X		1			X	X	X
AP US History	X		1			X	X	X
Sociology	X		1			X	X	X
Psychology 1		X	0.5			X	X	
Psychology 2		X	0.5			X	X	
History of Rock & Roll		X	0.5	X	X	X	X	
American History & Sports		X	0.5	X	X	X	X	
Military History	X		1	X	X	X	X	
Financial Literacy		X	0.5			X		
Transitions 1		X	0.5			X	X	
Transitions 2		X	0.5				X	

SOCIAL STUDIES CORE COURSES

American Political and Economic Systems CP

Prerequisite: Teacher recommendation

American Political and Economic Systems will provide students with an understanding of the American political and economic system through the history, philosophies, and theories that were instrumental in the development of our government and economy on the federal, state, and local levels. Students will also explore the functions of the role of political parties, the role and responsibilities of citizens in a democracy, and the economic system of the United States. There will be a special emphasis on making government relevant and applicable to students' lives.

Students will be expected to complete individual assignments and projects that will allow them to examine our political and economic system and the problems associated with them.

Academic American Political and Economic Systems

Academic American Political and Economic Systems will provide students with an understanding of the American political and economic system through the history, philosophies, and theories that were instrumental in the development of our government and economy on the federal, state, and local levels. Students will also explore the functions of the role of political parties, the role and responsibilities of citizens in a democracy, and the economic system of the United States. There will be a special emphasis on making government relevant and applicable to students' lives.

US History 2 CP/Modern United States History

Prerequisite: Recommended "B" grade minimum in 9th grade APES, and teacher recommendation

US History 2 provides students with a basic understanding of the historical significance of the development of our nation from 1914 to the present. Concepts learned enable students to develop an understanding of the responsibilities and duties of citizenship. Individual research and independent study expected of students. Historical project required of all students.

Academic US History 2/Modern United States History

US History 2 provides students with a basic understanding of the historical significance of the development of our nation from 1914 to the present. Concepts learned enable students to develop an understanding of the responsibilities and duties of citizenship.

SOCIAL STUDIES ELECTIVES

Pennsylvania/Local History

This course is designed to explore the history of the Keystone State. Local history will be emphasized, especially the railroads, coal, coke, and early iron and steel-making industries in Southwestern Pennsylvania.

US History 3

Prerequisite: US History 2/Modern US History

The purpose of this course is to provide knowledge of the historical events that have occurred in the United States during the post-World War II era. This course is designed to serve as an elective to meet student social science requirements and to further student knowledge of modern US historical events.

World Cultures

Culture is a common set of beliefs held by a group of people or society. Our religion, our government, even the ground we stand on influences the way our culture presents itself. The differences in the cultural landscape of the world are many, but there are similarities as all humans have similar physical and psychological needs. The focus of this course is to look at both the similarities as well as the differences while we learn about the diverse world in which we live. The course will span the areas of North America, Latin America, Sub-Saharan and North Africa, Europe and the Russian Domain, as well as Southwest, Central, South, Southeast and East Asia, Australia and Oceania. The time frame will focus on modern times but also reach into the past for contextual understanding of the issues at hand.

Advanced Placement U. S. Government and Politics

Prerequisite: "A" in US History 2 CP/Modern United States History, teacher approval

This course is a college-level political science course designed to help students gain a greater understanding of contemporary American politics. It is reading and writing intensive. Great emphasis will be placed on analytical thinking and the development of strong writing skills. The course will begin with an examination of the role and responsibilities of the media in American society and with a unit exploring the political and ideological roots of the Constitution. The course will proceed with a yearlong investigation of the relationships between the formal and informal institutions of government and their effects on the development of public policy in the United States.

Advanced Placement U.S. History

Prerequisite: "A" in previous CP social studies class, teacher approval

The AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials–their relevance to a given interpretive problem, reliability, and importance-and to weigh the evidence and interpretations presented in historical scholarship. An AP U.S. History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

Sociology

Sociology is an exciting behavioral science course exploring the way people interact with one another. It involves learning about relationships with groups, vital issues of today's world, and helps explain why people do, and act as they do.

Psychology 1

Psychology is an interesting combination of the social sciences and biology. Students will be introduced to the scientific study of psychology, the connection between the body and the mind, the learning and thinking process of the human mind, and the path of human development from infancy through childhood, adolescence, adulthood, and finally death.

Psychology 2

Prerequisite: "B" grade minimum in Psychology 1 and teacher approval

Psychology 2 is an extension of Psychology 1. Students will gain an understanding of the various aspects of human personality, including how and why one experiences emotions, and the theories and psychological tests related to personality development. Also, the effect of cultural gender roles on an individual's attitudes and behavior and the aspects of physical and psychological health and the treatment methods that attempt to improve an individual's psychological well-being will be studied. The class will review the field of social psychology and the various factors that promote and inhibit attraction, conformity, obedience, and aggression.

Note: Psychological projects will be required of all students.

History of Rock and Roll

The history of rock 'n' roll is social studies elective worth one-half credit. This course will trace the roots of rock 'n' roll and its impact on the American society. Music has contributed to change and advancement in our cultural institutions. The family, society, politics and technology have been greatly influenced by this American phenomenon called rock and roll. The birth of rock 'n' roll will begin with the 1930 -1940's until the present and discussed by decade to understand how this genre evolved and progressed to what it is today.

American History and Sports

Sports in America not only reflect our preferences in competition, but also in our culture! In the fast-paced life of a modern America, baseball losing its viewership is not surprising. Why? How did sports replicate cultural and social norms? How did sports impact race and gender rights? How did sports define a generation? How do sports impact world events and relations? All of these questions will be answered in this course as students engage with not only sports, but their relationship to politics, cultures, and social aspects.

Military History

This course will examine the causes of armed conflict, their impacts on how we write about armed conflict, and how armed conflict has changed over the course of thousands of years. This course is a reading and writing intensive course that focuses on the environmental and human changes in how we interact with one another. Military history is a popular course around American high school and colleges and can add a unique twist to history while improving the reading and writing skills of students by engaging them with wars, who fought them, and why they are fought; better creating peace-seeking citizens.

Financial Literacy

This semester course's primary objective is to provide students with financial tools and knowledge that will enable them to build the lives they envision. The course will present essential knowledge and content to help the student make informed decisions about real world financial issues. Personal finance will focus on the fundamentals of personal finance, income, spending, saving and investing, risk and insurance, and credit, with a goal of developing individuals who can manage their personal finances.

Transitions 1

This course is designed specifically to help students with their transition from school to work. This course can help guide students through various processes of life such as money management, job skills, self-advocacy skills, interpersonal skills, and problem solving. Specific attention will be paid to the students in the classroom to determine what skills to discuss and practice. Finally, this course can assist students with their communication and soft skills necessary for the work force.

Transitions 2

Prerequisite: Transitions 1

This highly individualized course will be a continuation of Transitions 1, helping students further develop their skill set for their post-secondary future. The focus of this course will be on community resources, appropriate work strategies, conflict management, problem solving and other skills for a successful transition.

SCIENCE

The study of the natural world – provides a sense of order in the universe. It relies on a creativity fueled by curiosity, objectivity, and healthy skepticism. Technology grows out of scientific discovery. Industry, agriculture, business and professions rely on science and technology.

College-bound students should become aware of themselves as biological organisms in a physical world. Students do not need to just know about science, but to understand fundamentals of how to carry out scientific work.

REQUIREMENTS

*****Three (3) credits of science in grades 9-12 are required for graduation. Biology is a course requirement for all students.** Connellsville Area School District highly recommends the selection of additional science courses for the student continuing a formal education program after the 12th year. Please select your classes carefully from the following list of science offerings. Also, please note "***prerequisites"*** needed for enrollment in some of the courses. These prerequisites must be achieved before a student can register for that particular class.

DEPARTMENT COURSES **THREE CREDITS REQUIRED (Must include Biology, CP Biology or Honors Biology)**								
COURSE TITLE	**YR.**	**SEM.**	**CREDIT**	**9**	**10**	**11**	**12**	**WEIGHTED**
Essentials of Biology	X		1	X				
CP Biology	X		1	X				X
Honors Biology	X		1	X				X
Biology	X		1		X	X	X	
Anatomy & Physiology	X		1		X	X	X	X
AP Biology (Separate Lab Pd.)	X		1.4			X	X	X
Environmental Science	X		1			X	X	
AP Environmental Science	X		1		X	X	X	X
Earth/Space Science	X		1	X	X	X	X	
Biochemistry		X	0.5			X	X	
Genetics of Forensics		X	0.5		X	X	X	
Botany		X	0.5		X	X	X	
Zoology		X	0.5		X	X	X	
Forensics		X	0.5		X	X	X	X
Academic Chemistry	X		1		X	X	X	X
Honors Chemistry (Separate Lab Pd.)	X		1.4		X	X	X	X
AP Chemistry (Separate Lab Pd.)	X		1.4				X	X
Honors Physics	X		1		X	X		X
Physics	X		1			X	X	X
AP Physics (Separate Lab Pd.)	X		1.4			X	X	X
Computer Science Principles	X		1		X	X	X	
AP Computer Science Principles	X		1		X	X	X	X

Essentials of Biology

This will be an introductory course to cover state standards and follow the state standards at a slower pace. There will be an emphasis on prefixes, suffixes, vocabulary and a push toward becoming a more responsible, student centered learner. Concentration will be placed on Keystone-like questioning throughout the following concepts: Basic Chemistry concepts; Introduction to Microscopes; Basic Biological Principles; Chemical Basis for Life; Cell Structure and Function; Bioenergetics; Homeostasis and Transport; DNA, RNA and Protein Synthesis; Cell Growth and Reproduction; Patterns of Inheritance; Biotechnology; Evolution.

CP Biology

Prerequisite: Teacher recommendation

The course content is reflective of the state standards used to design the Keystone Biology Exam. As a college prep course, the course will move at a pace to cover the topics in depth and require good critical thinking skills. There will be an emphasis on student driven responsible learning and PBL. Topics for the course include the following concepts: Basic Biological Principles; Chemical Basis for Life; Cell Structure and Function; Bioenergetics; Homeostasis and Transport; DNA, RNA, and Protein Synthesis; Cell Biotechnology; The Theory of Evolution; and Ecology.

Honors Biology

Prerequisite: "A" Grade in both 7th and 8th grade science and teacher recommendation

The course content is reflective of the state standards used to design the Keystone Biology Exam. As an honors course, the course will move at a faster pace, will cover topics more in depth, and require good critical thinking skills. There will be an emphasis on student driven responsible learning and PBL. Topics for the course include the following concepts: Basic Biological Principles; Chemical Basis for Life; Cell Structure and Function; Bioenergetics; Homeostasis and Transport; DNA, RNA, and Protein Synthesis; Cell Biotechnology; The Theory of Evolution; Ecology; Patterns of Global Growth; Systematics; Introduction to Animal Anatomy, related foci, and topics that encourage careers in scientific/medical fields.

Biology

The course content is reflective of the state standards used to design the Keystone Biology exam. Topics will include the following concepts: Basic Biological Principles, Chemical Basis of Life, Bioenergetics, Homeostasis and Transport, DNA, RNA & Protein Synthesis, Cell Growth & Reproduction, Patterns of Inheritance, Biotechnology, The Theory of Evolution, and Ecology.

Anatomy and Physiology

Prerequisite: Biology and teacher recommendation

This course will include a yearlong program of intense human anatomy and physiology studies. The areas covered will include medical terminology, basic chemistry, cell and tissue structure, and the 11 systems of the human body (integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, digestive, respiratory, urinary and reproductive). Laboratory work will be required, including comparative anatomy dissection labs.

AP Biology 

Prerequisite: A grade of an "A" in Honors Biology and Honors Chemistry as well as teacher approval. Anatomy and Physiology are highly recommended. Eligible students will have passed the Biology Keystone Exam.

This course will prepare students to take the advanced placement biology exam to obtain college credit. This will be a rigorous course with a concentration in chemistry and an extensive lab component. This course requires reading outside of the class, on a daily basis.

Environmental Science 

This course will be a study of how humans/animals interact with the environment and what can be done to improve these interactions. A major focus of environmental science will be the study of environmental and ecological relationships and interactions. This course is designed to involve students in critical thinking and development of resource utilization for all levels of ecological organization which can then be applied to the preservation of biotic and abiotic environment. This can then be applied to the prevention of deterioration of our natural environment. Major emphasis will be placed on studying causes and effects of the major ecological problems confronting the global society. The students are expected to devise possible solutions to these problems for general implementation.

AP Environmental Science 

Prerequisites: Students who have taken Academic or Honors Chemistry OR a 90% in Honors Biology or CP Biology, along with teacher approval.

The AP Environmental Science Course will follow the same goals as described by the College Board for AP Environmental Science. This course will vary greatly from the usual high school Environmental Science in respect to the resources used, content covered, laboratory experiments completed, course rigor, and student effort. Students will be examining the interrelationships of the natural world and examining natural and human-made environmental issues. Scientific principles, methodologies, and environmental concepts will be taught in order for the students to evaluate environmental risks and determine alternative solutions to resolve or prevent these problems. The course goal is to create environmentally responsible citizens through a fact-based curriculum with regard to diverse environmental viewpoints. Topics to be covered include: Earth Systems and Resources, The Living World, Populations, Land and Water Use, Energy Resources and Consumption, Pollution, and Global Change.

Earth/Space Science 

This course has no prerequisites. The course will introduce students to the magnitude of the universe, from outer space to inner Earth. An in-depth exploration of the Earth will be conducted, as well as the interconnections between land, ocean, atmosphere and life on our planet. The most important biogeochemical cycles will be covered because they influence all of Earth's inhabitants. (water, carbon, rock, nitrogen, etc

Biochemistry

Prerequisite: Must have taken Honors Biology or received an A in CP Biology, along with an A in Academic Chemistry.

This is an introductory course in organic chemistry and biochemistry. This course is for those students with a strong inclination of going into the medical field. The main focus will be the study of carbon and the organic compounds of life. An emphasis will be placed on how the chemical properties being studied apply to and are used in the medical field.

Genetics of Forensics

Prerequisite: Must have passed or be currently enrolled in Anatomy & Physiology.

This semester course may interest students who are pursuing a career in a medical/biological field, forensic science, or criminal justice. The semester will begin with an introduction to genetics and inheritance, types of physical evidence, microscope analysis, and fingerprinting will be covered as well. Conclusion of the course will contain a biotechnology unit which will cover aspects such as gene therapy, genetic counseling, and forensic testing, Labs, projects, case studies, internet assignments, and reading guides will be used to reinforce these concepts.

.

Botany

Prerequisite: Must have passed or be currently enrolled in Anatomy & Physiology.

This course will provide students with a broad study of the plant kingdom. This class is designed for those who know little to nothing about types of plants or how they live! While focusing primarily on flowering plants, all major types of plants will be discussed. Students will study all of the major anatomical features of plants, such as roots, stems, leaves, flowers, and fruits; as well as their physiology. Students will complete a leaf collection of local western PA tree species. This hands-on activity is designed to give students awareness of and appreciation for trees they normally overlook in everyday life. Specimens collected in the field will be referred to in the classroom to develop and reinforce a complete understanding of the anatomy and physiology of the various species.

Zoology

Prerequisite: Must have passed or be currently enrolled in Anatomy & Physiology.

This course will involve a comparative study of virtually every type of animal on planet earth. From the cute and cuddly koala to parasitic worms in your intestines, they'll all be discussed. Students will study the interrelationships of animals with one another, their environment, and relativeness to man. The evolution of animals from the simplest creatures to the highly complex is a key concept in this course. The lab will be a comparative study of the anatomy and physiology of various animals. This is a lab-oriented class and will require at least six animal dissections.

Forensics

Prerequisites: **Must have passed or be currently enrolled in Anatomy & Physiology.**
This is a one semester course that will focus on the application of science in the criminal investigation field. Students will apply the concepts of Biology to cover key topics in forensic science such as: crime scene analysis, physical/chemical analysis of evidence, chromatography, fingerprint comparison, ballistics, toxicology, and blood/DNA analysis among others. This course utilizes lecture, laboratory experiments, mock crime scene scenarios, case studies, virtual labs, and project research which will allow students to apply the scientific method and use critical thinking skills in a biological context. Inquiry based investigations and analysis will be integral in this course.

Academic Chemistry

Prerequisite: "B" average or better in Biology and in Algebra I
This course will introduce the student to the fundamental concepts of chemistry. The topics covered will include Matter and Energy, the Atomic Structure, Naming and Writing Formulas for Compounds, Chemical Reactions and Stoichiometry, Periodic Properties of the Elements, Chemical Bonding, and Molecular Geometry. Lab demonstrations and activities will give the student an opportunity to carry out experiments that correlate with the content covered in class. The course is also designed to help students develop independent learning, critical thinking, and problem-solving skills.

Honors Chemistry

Prerequisite: Concurrently taking Algebra 2 and mastery of Biology
This course will prepare the student for the transition into AP chemistry. This course will cover all the topics in Academic Chemistry along with additional topics that include Reactions in Aqueous Solutions, Thermochemistry, and Gases. This will result in a larger workload and higher rigor. Laboratory sessions will attempt to reinforce the concepts discussed in class and to develop skills for performing experiments in a laboratory setting. The course is also designed to help students develop independent learning, critical thinking, and problem-solving skills. This level of chemistry is designed to prepare the student for college chemistry.

AP Chemistry

Prerequisite: 93 % or better in Academic Chemistry, 90% or better in Honors Chemistry and 90% or better in Algebra 2, teacher recommendation required
The AP Chemistry course is designed to be the equivalent of and to meet the objectives of a general chemistry course usually taken during the first year of college. Students in this course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course will contribute to the development of the student's abilities to think clearly and to express their ideas orally and in writing, with clarity and logic. The class will meet 7 times per week. With 5 periods devoted to lecture and presentation of textbook topics and 2 periods per week devoted to laboratory. Students should be prepared to spend at least 5 hours per week in individual study outside of the classroom. There is also a requisite of preparation to be completed the summer before taking AP Chemistry.

Honors Physics

Prerequisite: Passed Geometry and teacher approval

This is a thorough introduction into physics for those planning to major in the physical and biological sciences, mathematics and engineering. Pre-advanced placement physics will involve more in-depth problem-solving techniques that are typically applied in a college level physics class. This class is the pre-requisite for Advanced Placement Physics.

Physics

Prerequisite: Passed Geometry and teacher approval

Physics is the study of the relationship between matter and energy. Topics such as mechanics, waves and electricity will be explored through problem solving and laboratory experiments. *Note: This course **cannot** be taken after the completion of Honors Physics and/or AP Physics.

AP Physics

Prerequisite: Pre-Advanced Placement Physics with a minimum 90% final grade and teacher approval

A challenging algebra/trigonometry-based physics course that is meant to parallel the first two semesters of physics at the college level. This course will include topics in classical mechanics and electricity. Understanding of the basic principles involved and the ability to apply these principles in the solution of problems will be the major goals of the course.

Computer Science Principles

Prerequisite: Algebra 1

Designed for 10-12 grade students, Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. The following information will be covered in this course: The Internet, Digital Information, Algorithms and Programming, Big Data and Building Apps.

AP Computer Science Principles

Prerequisite: Algebra 1

Designed for 10-12 grade students – AP Computer Science Principles (CSP), this is a full-year, rigorous course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. This course outline covers the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world. The course is rigorous and rich in computational content, includes computational and critical thinking skills, and engages students in the creative aspects of the field. This course prepares students for the AP exam.

MATHEMATICS

All students need some knowledge of mathematics to function in today's society. It is the language of science and technology, as well as business and finance.

*****Three (3) credits of math in grades 9-12 are required for graduation.** Connellsville Area School District highly recommends the selection of additional math courses for the student continuing a formal education program after the 12th year. Please select your classes carefully from the following list of math offerings. Also, please note "***prerequisites***" needed for enrollment in some of the courses. These prerequisites must be achieved before a student can register for that particular class.

DEPARTMENT COURSES

THREE CREDITS REQUIRED (Must include Algebra 1 or Algebra 1 Part 1 and Algebra 1 Part 2 and Geometry)

COURSE TITLE	YR.	SEM.	CREDIT	9	10	11	12	WEIGHTED
Algebra 1 Part 1	X		1	X				
Algebra 1 Part 2	X		1		X			
Algebra 1	X		1	X	X	X		
Intermediate Algebra	X		1	X	X	X	X	
Geometry	X		1	X	X			
Geometry 11/12	X		1			X	X	
Honors Geometry	X		1	X	X	X	X	X
Algebra 2	X		1	X	X	X	X	
Honors Algebra 2	X		1	X	X	X	X	X
Algebra 3	X		1		X	X	X	X
AP Precalculus	X		1			X	X	X
Precalculus	X		1			X	X	X
Calculus	X		1			X	X	X
AP Calculus	X		1			X	X	X
Probability & Statistics		X	0.5		X	X	X	
AP Statistics	X		1			X	X	X
Financial Literacy		X	0.5			X		
SAT Prep Course		X	0.5		X	X	X	
Computer Science Principles	X		1		X	X	X	
AP Computer Science Principles	X		1		X	X	X	X

****Note: All math courses require a teacher recommendation from the current math teacher.**

Algebra 1 Part 1 **(.5 NCAA Credit)**

Algebra 1 Part 1 focuses primarily on linear relationships. Investigations will include an emphasis on expressions, equations, functions, linear equations, linear functions and linear inequalities. It will include a review of operations with real numbers (rational and irrational). A focus on linear relationships based on data. Students will learn how to apply data collected from real world situations.

Algebra 1 Part 2 **(.5 NCAA Credit)**

Prerequisite: Algebra 1 Part 1

Algebra 1 Part 2 expands on linear relationships by exploring systems of equations, exponents, exponential functions, quadratic expressions, and radical functions. Students will also study geometry concepts and learn how algebra relates to shapes and spatial reasoning. The course introduces statistics and probability for analyzing data, with an emphasis on applying these topics to real-world situations to enhance problem-solving and modeling skills.

Algebra 1

Algebra 1 focuses on establishing a solid foundation in algebraic concepts, beginning with linear relationships, expressions, equations, functions, and inequalities. Students will review operations with real numbers and learn how to apply data from real-world situations. The course then expands on this knowledge by exploring systems of equations, exponents, exponential and quadratic functions, radical functions, and geometry, while also introducing statistics and probability. Throughout, students will develop problem-solving and modeling skills by applying these concepts to real-world scenarios.

Intermediate Algebra

Prerequisite: Algebra 1 and teacher recommendation

Intermediate Algebra is designed to help students strengthen their skills from Algebra 1. This course is for students who have passed Algebra 1 but faced academic challenges. A key objective is to identify, address, and correct specific problem areas in their algebraic understanding.

Geometry

Prerequisite: Algebra 1 or Algebra 1 Part 2

Geometry helps students develop both inductive and deductive thinking skills. Through hands-on activities, graphing calculator technology, and dynamic geometry software, students explore fundamental geometric figures such as triangles, quadrilaterals, polygons, and circles. They will also make and test conjectures about mathematical and real-world patterns, with the potential use of computer-assisted instruction.

Geometry 11/12

Prerequisite: Algebra 1 Part 2, Intermediate Algebra or Algebra 1

Geometry 11/12 helps students develop both inductive and deductive thinking skills. Through hands-on activities, graphing calculator technology, and dynamic geometry software, students explore fundamental geometric figures such as triangles, quadrilaterals, polygons, and circles. They will also make and test conjectures about mathematical and real-world patterns, with the potential use of computer-assisted instruction.

Honors Geometry

Prerequisite: Algebra 1 with a minimum "B" average as well as a strong teacher recommendation

Honors Geometry provides an accelerated, in-depth study of coordinate, synthetic, and transformational geometry, covering topics like logic, parallel lines, congruence, quadrilaterals, polygons, circles, similarity, and the Pythagorean theorem. Students will engage in reading mathematics, writing proofs, applying concepts to real-world scenarios, and using technology for research and application.

Algebra 2

Prerequisite: Algebra 1, "C" grade minimum and current math teacher recommendation

Algebra 2 reinforces foundational Algebra concepts while exploring advanced topics such as linear representations, polynomial, exponential, logarithmic, rational, and radical functions, irrational and complex numbers, quadratic functions, and conic sections.

Honors Algebra 2

Prerequisite: Honors Geometry OR Algebra 1 & Geometry with an "A" average along with a strong teacher recommendation

Honors Algebra 2 covers linear representations, polynomial, exponential, logarithmic, rational, and radical functions, systems of equations and inequalities, irrational and complex numbers, quadratic functions, and conic sections. The course emphasizes problem-solving, critical thinking, reasoning, real-world applications, and the use of technology for research and concept application.

Algebra 3

Prerequisites: Algebra 2, Geometry and teacher recommendation

Algebra 3 prepares students for college-level Algebra by covering functions and graphs, including linear, quadratic, polynomial, radical, rational, exponential, and logarithmic functions, as well as inequalities. Basic trigonometric concepts are also introduced.

AP Precalculus

Prerequisite: Honors Algebra 2 OR Algebra 2 ("A" average) AND Honors Geometry OR Geometry ("A" average)

AP Precalculus provides an excellent foundation for AP Calculus/Calculus and can also serve as an appropriate capstone course. Topics include: polynomial & rational functions, exponential & logarithmic functions, trigonometric functions, the polar system, limits and parametrics/vectors/matrices.

Precalculus

Prerequisite: Algebra 2, Geometry and teacher recommendation

Precalculus will help students acquire a foundation in Algebra and Trigonometry to prepare for Calculus. Students will develop problem-solving skills while fostering critical thinking. Topics include: Functions and Graphs, Polynomial and Rational Functions, Analytic Trigonometry, Oblique Triangles, Sequences and Probability, and Intro to Calculus.

Calculus


Prerequisite: AP Precalculus OR an 85% in Precalculus or Algebra 3, along with a teacher recommendation

Students taking this course will study the elements of calculus: limits of functions, derivatives, integrals, approximations, and modeling. Calculus emphasizes a multi-representational approach to Calculus with concepts being expressed and connected graphically, numerically, analytically, and verbally.

AP Calculus


Prerequisite: AP Precalculus or a 90% in Precalculus or Algebra 3

Students taking AP Calculus should be prepared to handle the rigor of a college level mathematics course. AP Calculus AB emphasizes a multi-representational approach to Calculus with concepts being expressed and connected graphically, numerically, analytically, and verbally. The course unifies the themes of, limits, derivatives, integrals, approximations, applications, and modeling. A strong and quick pace is required to complete the syllabus outlined by the College Board prior to taking the AP exam in early May.

Probability and Statistics

Prerequisite: Algebra 1

This class is for the student that wants to deepen their probability & statistic knowledge, more than what they have learned in their required math classes. Topics include an introduction to statistical concepts, organizing data, averages & variation, correlation & regression, and probability (game theory is applied).

AP Statistics


Prerequisite: Successful completion of Honors Algebra 2 or an 80% or higher in Algebra 2

The topics for AP Statistics are divided into four major themes: exploratory analysis, planning and conducting a study, probability, and statistical inference. This class is for the student who plans to study economics, business, education, psychology, sociology, medicine, engineering, etc. and will use statistics in their career. A strong and quick pace is required to cover the material that is outlined by the College Board, prior to taking the AP exam in early May.

Financial Literacy

This semester course's primary objective is to provide students with financial tools and knowledge that will enable them to build the lives they envision. The course will present essential knowledge and content to help the student make informed decisions about real world financial issues. Personal finance will focus on the fundamentals of personal finance, income, spending, saving and investing, risk and insurance, and credit, with a goal of developing individuals who can manage their personal finances.

Scholastic Aptitude Test (SAT) Preparation Course

Prerequisites: Algebra 1, Geometry and Academic English 9

The SAT Prep Course will prepare students for the SAT Math, Verbal, and Writing sections of the exam. This course will help the student know the SAT test patterns and strategies. It will enrich math concepts in numbers and operations, algebra and functions, geometry and measurement and probability. The course will also enrich English concepts in extended reasoning, critical reading, literal comprehension, vocabulary in context, grammar, and composition.

Grade Scale: Pass/Fail (Students will be required to keep a portfolio of their work during the course.)

Computer Science Principles

Prerequisite: Algebra 1

Designed for 10-12 grade students, Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. The following information will be covered in this course: The Internet, Digital Information, Algorithms and Programming, Big Data and Building Apps.

AP Computer Science Principles

Prerequisite: Algebra 1

Designed for 10-12 grade students – AP Computer Science Principles (CSP), this is a full-year, rigorous course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. This course outline covers the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world. The course is rigorous and rich in computational content, includes computational and critical thinking skills, and engages students in the creative aspects of the field. This course prepares students for the AP exam.

FOREIGN LANGUAGE

Foreign Language is a requirement for admission to most colleges; therefore, it is recommended that students pursue a study of a foreign language during their freshman year.

College entrants need a background in another language to engage in advanced study in fields such as language, literature, and history. It helps students prepare for careers in business, commerce, international relations, law, science and the arts. STUDENTS MUST TAKE A MINIMUM OF 2 YEARS OF THE SAME LANGUAGE FOR COLLEGE. SOME COLLEGES, OR COLLEGE PROGRAMS REQUIRE 3 OR MORE YEARS OF THE SAME LANGUAGE.

DEPARTMENT COURSES								
COURSE TITLE	**YR.**	**SEM.**	**CREDIT**	**9**	**10**	**11**	**12**	**WEIGHTED**
Spanish 1	X		1	X	X	X	X	
Spanish 2	X		1	X	X	X	X	
Spanish 3	X		1		X	X	X	X
Spanish 4	X		1			X	X	X
Spanish 5	X		1				X	X
AP Spanish	X		1				X	X
German 1	X		1	X	X	X	X	
German 2	X		1		X	X	X	
German 3	X		1			X	X	X
Cultural Exploration of the Spanish Speaking World I		X	.5	X	X	X	X	
Cultural Exploration of the Spanish Speaking World II		X	.5	X	X	X	X	

Spanish 1

Students learn the basic grammar, vocabulary topics, and foundation of communication in Spanish. An introduction of history, geography and culture are also presented.

Spanish 2

Prerequisite: Spanish 1 with required "C" grade

Students demonstrate the material taught from the first year with greater depth and complexity. Communicating in spoken and written form, students will be able to read and comprehend narratives, as well as conversational topics.

Spanish 3 

Prerequisite: Spanish 2 with required "C" grade

Included in Spanish 3 are literature sections, cultural readings, review of Spanish II and advanced grammar and conversations that pertain to life in Spanish countries. Also, students will develop and perform dialogues and skits, watch cultural videos, use audiotapes and create cultural experiences based on cultural events in Spanish speaking countries.

Spanish 4 

Prerequisite: Spanish 3 with required "C" grade and teacher approval.

Spanish 4 expands the student's knowledge of Spanish in listening, speaking, reading, and writing while concentrating on the culture of Latin America. Activities include intensive grammar review, literature units, vocabulary study, composition, and conversation topics.

Spanish 5 

Prerequisite: Spanish 4 with a required "B" grade minimum and teacher approval.

This course expands the student's knowledge of Spanish in areas of listening, speaking, reading, and writing while concentrating on the culture of Spain and using the language as often as possible. There will be intense grammar review, literature, vocabulary, com-position, and conversation. It will also include computer lab units at the senior high school.

Advanced Placement Spanish 

Prerequisite: Spanish 4 with a required "B" grade minimum and teacher approval.

Students complete the Spanish 5 curriculum, in addition to extensive grammar, vocabulary, reading, writing, and listening practice to prepare for the AP test offered in May by the College Board. Students should be motivated and be able to work independently.

German 1 

Utilizing a combination of the TPRS method (Total Physical Response Storytelling) and state-of-the-art written test and internet sources, students learn a large amount of practical vocabulary in the context of stories and informal gatherings, and hone their pronunciation skills. Students learn all basic skills necessary for success in advanced German instruction in German 2 and 3.

German 2 

Prerequisite: German 1 with required "C" grade

Students continue to use TPRS to expand their knowledge in reading, writing, speaking, and listening skills. German culture and celebrations continue to be an integral part of learning the language. Much progress is made in year two as students rapidly improve competency, grammatical accuracy and enlarge their vocabulary.

German 3 

Prerequisite: German 2 with required "C" grade, along with teacher approval.

Students expand their knowledge of the German language, both in grammar and in vocabulary. Using this knowledge, students read a wide range of written materials, watch educational videos, become acquainted with German music, and practice expressing themselves in writing and conversation.

Cultural Exploration of the Spanish Speaking World I 

This course has several purposes. The major concern will be the examination of ancient (100 B.C.-mid 19th century) Spanish Speaking cultures'/communities' history, architecture, art and literature, to determine if there is a uniquely Spanish manner of seeing and understanding the world. This course is based on a compilation of University level Spanish Culture courses taught throughout the United States, including Yale and the University of California, Berkeley. Though this course will be taught in English, it will serve to further familiarize students with formal approaches to bilingualism. The course will focus on Spanish-speaking communities in order to critically examine several facets of bilingual individuals and societies. By the end of the course, students should have a broad understanding of the history of Spanish Speaking cultures as well as a broad set of critical frameworks for thinking about, discussing and analyzing cultural phenomena from a global perspective. A variety of authentic materials will be used during this course to further develop students' reading comprehension and critical thinking skills.

Cultural Exploration of the Spanish Speaking World II 

This course has several purposes. The major concern will be the examination of modern (1850-Present) Spanish Speaking cultures'/communities' history, architecture, art and literature, to determine if there is a uniquely Spanish manner of seeing and understanding the world – one which emerges as clearly distinct from our own and that of other Western European nations. This course is a continuation of Part 1 with a focus on the changing political and social landscapes of Spanish Speaking countries during recent history. Though this course will be taught in English, it will serve to further familiarize students with formal approaches to culture and bilingualism. By the end of the course, students should have a broad understanding of the cultural impacts of modern historical events of Spanish Speaking cultures as well as a broad set of critical frameworks for thinking about, discussing and analyzing cultural phenomena from a global perspective. A variety of authentic materials will be used during this course to further develop students' reading comprehension and critical thinking skills.

BUSINESS

Every person is involved in business as an entrepreneur, chief officer, employee or consumer. Business courses offer practical applications of concepts used in the business world. Students may choose from five areas of concentration: Accounting, Computer Management Systems, Business Administrative Specialist, and Business System Programming.

COURSE TITLE	YR.	SEM.	CREDIT	9	10	11	12	WEIGHTED
AP Computer Science Principles	X		1		X	X	X	X
AP Cybersecurity	X		1		X	X	X	X
AP Macroeconomics	X		1			X	X	X
Accounting	X		1	X	X	X	X	X
Advanced Accounting	X		1		X	X	X	X
Broadcast Media Operations 1	X		1		X	X	X	
Broadcast Media Operations 2	X					X	X	
Business Law		X	0.5	X	X	X	X	
Business Strategies in Public Relations	X		1	X	X	X	X	
Careers in Esports		X	0.5			X	X	
Computer Programming	X		1			X	X	
Computer Science Principles	X		1		X	X	X	
Digital Graphic Design		X	0.5		X	X	X	
Digital Media Productions 1		X	0.5	X	X	X	X	
Digital Media Productions 2		X	0.5	X	X	X	X	
Financial Literacy		X	0.5			X		
Intro to Computer Science		X	0.5	X	X	X	X	
Microsoft Word/Excel Certification		X	0.5	X	X	X	X	
Podcasting		X	0.5	X	X	X	X	
Production Internship	X	X	0.5 or 1		X	X	X	
Sales and Entrepreneurships		X	0.5	X	X	X	X	
Social Media Marketing	X		1		X	X	X	
Web Design	X		1	X	X	X	X	
Yearbook Internship	X		1			X	X	
Yearbook Publishing 1	X		1		X	X	X	
Yearbook Publishing 2	X		1			X	X	

AP Computer Science Principles

Prerequisite: Algebra 1

Designed for 10-12 grade students - AP Computer Science Principles (CSP), this is a full-year, rigorous course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. This course outline covers the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world. The course is rigorous and rich in computational content, includes computational and critical thinking skills, and engages students in the creative aspects of the field. This course prepares students for the AP exam.

AP Cybersecurity

AP Cybersecurity is a year-long high school course that provides a broad introduction to the field of cybersecurity, aligning closely with a college-level introductory cybersecurity course. As part of the AP Career Kickstart™ suite of courses, it is designed to help students develop the technical and professional skills needed for opportunities in this high-demand, high-growth field. The curriculum invites students to understand risk by learning about common threats and vulnerabilities, and how these elements interact and combine. Students explore how individuals and organizations manage risk through a layered security approach, known as a defense-in-depth strategy.

AP Macroeconomics

AP Macroeconomics is a yearlong course. AP Macroeconomics is a college-level course that introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. This course defines concepts, skills, and understandings required by representative colleges and universities for granting college credit or placement. The course prepares students to think like economists by using principles and models to describe economic situations and predict and explain outcomes. Like economists, students do so by using graphs, charts, and data.

Accounting

Accounting is the Language of Business and in this full year course students will complete, prepare and master the Accounting Cycle for a Service Business organized as a Sole Proprietorship and complete, prepare and master the Accounting Cycle for a Merchandising Business organized as a Corporation. Manual and Automated accounting skills will be mastered. Students will work independently and in groups to enhance learning in this course. This is an excellent course for the traditional business student and any college bound student planning on continuing their education in Business, Accounting and/or Management. This is an academic course and students can earn a college credit through WCCC.

Advanced Accounting

Prerequisite: Recommended "C" grade or better in Accounting

This is a full-year course for students to prepare and interpret business reports and financial statements. This course covers departmentalized accounting, voucher system, inventory planning and valuation, corporate and managerial accounting. Manual and automated skills will be utilized. Students will work independently and in groups on numerous problems and simulations. Students will prepare research papers on their "career" choice, accounting as a career, PICPA and college selections.

Broadcast Media Operations 1

Prerequisite: Passing Grade of an 85% in Digital Media 1 & Digital Media 2 and Teacher Recommendation.

This full-year course gives students the opportunity to work in production teams to create the school's daily news broadcast. Students must be comfortable working in a fast-paced, team-based environment to meet daily deadlines for producing a high-quality news program each day. Student roles include working behind the scenes, on camera, or a mix of both. Students must be willing to work with others, manage their time well, and contribute creative ideas to keep the news program fresh and engaging. In this course, students learn to operate multicamera studio equipment, write news scripts, conduct interviews, create news graphics, and report on assigned topics through video. In addition to producing their own news and feature stories, students collaborate daily to plan, film, edit, and package content for the school news broadcast. Students will also learn how to operate live streams for school events on the district's YouTube channel.

Broadcast Media Operations 2

Prerequisite: 90% in Broadcast Media Operations 1

Students must pass Broadcast Media Operations 1 with a minimum score of 90% and be self-motivated to meet strict deadlines with strong communication and leadership skills. This course will be blended with Broadcast Media Operations 1. The pace of this course builds upon the experience in Broadcast Media Operations 1 with the hands-on opportunities of creating virtual set designs using the TriCaster, developing advanced editing techniques, and mentoring first-year Broadcast students. This class provides a fast-paced working environment where students will gather and collect information daily while collaborating with each of the Broadcast teams within the Falcon News crew. Students will further develop their technical skills with multicamera studio production, live-streaming of school events, troubleshooting equipment, editing in professional platforms, and reporting on their assigned topics to deliver school and district-wide news and feature videos. Students will take on the roles of "Editor" and "Student Director" at this level with direct responsibility in overseeing the quality production of the school newscast every day. Students at this level master the ability to direct a production, edit in professional platforms, and operate all film and sound equipment to deliver a fresh and relevant news broadcast to our school every day.

Business Law

Business Law is a semester course with in-depth instruction on both Business and Personal concepts of Law. Content will cover: ethics, morals, criminal, civil and contract law. High Profile cases will be utilized to reinforce concepts. Case Crime Analysis will be used to enhance the course and to integrate Real Life situations affecting our society today. A formal debate will be utilized at the end of the semester to tie all of the concepts together.

Business Strategies in Public Relations

This course presents public relations that are vitally important in today's business world. Students will be introduced to concepts of problem solving in the fast changing work environment. Students will become knowledgeable about how a business operates and promote a positive image through exploring conflict resolution in the work place. Students will compare/contrast current ethical issues and trends.

Careers in Esports

The Esports course will explore the various careers that relate to the Esports industry. These include, but are not limited to, areas such as general management, graphic design, cinematography/video production, social media/marketing, and human resources. The course will discuss the emergence of the Esports industry. Students will have the opportunity to dive into the world of gaming through Esports competitions and steer future development through a regional league.

Computer Programming

Do you want to learn how to code like the following developers: Instagram, Google, Youtube, Spotify, and many more? Python is the fastest growing programming language in the world. This course will use curriculum written in partnership with Carnegie Mellon University. Students will get a general introduction to programming techniques by studying errors, graphics, functions, events, loops, and strings. In addition, students will apply computations to such areas as art, and science, music, math, data analysis and visualization, machine learning and AI.

Computer Science Principles

Prerequisite: Algebra 1

Designed for 10-12 grade students, Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. The following information will be covered in this course: The Internet, Digital Information, Algorithms and Programming, Big Data and Building Apps.

Digital Graphic Design

This is an introductory course in graphic design. Students explore layout and design principles, color decisions, typography choices and vector/pixel imaging. Students create advertisements, posters, billboard designs and a variety of other electronic media. Students create their own digital work on the computer using current web-based graphic design software (Photoshop, Pixlr, Canva, etc.). Students will work with the Fab Lab at the high school as well as developing digital designs for publication.

Digital Media Productions 1

This course teaches the basics of video production and editing. Students learn proper film techniques, practice editing, and explore various editing platforms. They follow the full production process by taking an idea, planning it out, filming footage, and editing it into a finished video. Students create animated graphics to enhance their videos, work with others to build communication skills, and learn what it takes to direct a film project. They also learn how to properly use, handle, and care for cameras, audio equipment, and lighting while working independently and in small teams. This course prepares students for Digital Media Productions 2 and Broadcast Media Operations.

Digital Media Productions 2

Prerequisite: Digital Media Productions 1

This course builds on the skills introduced in Digital Media Productions 1, with a stronger focus on advanced filming, editing, and collaborative projects using professional-level equipment and software. Students work in small production teams to plan, film, and edit more complex video projects while gaining hands-on experience with higher-end cameras, audio equipment, and advanced editing tools. Students further develop technical skills through advanced editing techniques such as audio mixing, color correction, and graphics creation. The course emphasizes teamwork, organization, creativity, and problem-solving while introducing more advanced production workflows, including streaming software and hardware. This course prepares students for advanced media opportunities, including Broadcast Media Operations and the Production Internship.

Financial Literacy

This semester course's primary objective is to provide students with financial tools and knowledge that will enable them to build the lives they envision. The course will present essential knowledge and content to help the student make informed decisions about real world financial issues. Personal finance will focus on the fundamentals of personal finance, income, spending, saving and investing, risk and insurance, and credit, with a goal of developing individuals who can manage their personal finances.

Intro to Computer Science

Intro to CS is an engaging course that will provide students with an overview of the world of computer science and its technologies. It will explore, but not be limited to a variety of basic computational thinking and programming concepts through a project-based learning environment. Students will build apps using block based programming and android tablets, program robots using Python and learn induction to text based programming.

Microsoft Word/Excel Certification

This course will combine and prepare students for the competencies necessary to successfully complete the online Microsoft Office Specialist (MOS) Certification Exam in Microsoft Word and Microsoft Office Specialist (MOS) Certification Exam in Microsoft Excel at the Proficient Level. This course is recommended for the Core Business Student - The Microsoft Office Suites are utilized in the majority of Businesses and employers are seeking individuals with these certifications and skills.

Podcasting

Podcasting combines major skills emphasized in the business industry. The course will focus on students being able to work collaboratively within a group, write to an audience, learn new forms of technology, and find a meaningful and positive voice. Students will listen to popular podcasts, research different forms of this medium, and develop and record their own podcasts. This will be done all while working with peers and learning the process of what it takes to make their effort meaningful and successful.

Sales and Entrepreneurships 

This is a half year course that discusses the exciting and ever-changing elements of marketing in our global society. This class is based off the program that supports the concept of "Learning by Doing". Entrepreneurship is taken to the next level in this course by applying numerous hands-on activities. Students will work in groups to innovate and/or invent a product or service business. A business plan is then created. Students will research and determine EOUs, ROIs, Target Market, and then try sell their idea. A "Real Life" shark tank will be performed by each group to pitch their innovation/invention using the new recording studio. The students will also advertise by blogging, tweeting and posting to interactive websites.

Social Media Marketing 

In today's rapidly-evolving media landscape, social media has not only become a fundamental tool for communication, but a must-have skill in a multitude of industries. With the right amount of practice and social media education, students and professionals are empowered with a how to create and maintain a social media presence for business, including Facebook, Twitter, Snapchat, LinkedIn, YouTube, Instagram, Podcast, Blogging, etc. Students will utilize a social media simulation where they use social media and content marketing to grow the business and engage customers. Students will sit for a vetted CERT exam.

Web Design

This full-year course combines the skills of design and web development. The course centers on learning the fundamentals of good design as applied to professional project development. Students will utilize both online platforms, such as Google Sites and Canva, as well as learning the basics of how to build a website from the ground up through HTML and CSS. This course will be project-based in order to encourage the integration of a variety of skills.

Yearbook Publishing 1

This is a full-year course which is a setup for students who want to use their creative side. This course implements and operates on a strict publishing deadline schedule to create the Connellsville Area High School Yearbook. Areas of focus include numerous creative writing assignments, interviewing and reporting skills; developing pages utilizing software "Yearbook Avenue" and Photoshop. Students will work independently and in teams to generate ideas and develop a well-organized, creative and entertaining yearbook. Photography skills will be introduced. This course sometimes requires extra time outside of class due to class assignments.

Yearbook Publishing 2

Prerequisite: Must pass Yearbook 1 with a minimum of 85%

This is a full-year course that continues the Yearbook I experience by developing advanced layout and design concepts utilizing the "Yearbook Avenue" software and Photoshop. This course also runs on a strict publishing deadline schedule. This course encourages leadership and excellent communication skills will be mastered. Students will master graphic techniques to include screens, tints, typography art illustrations and color. Role of "Editor" takes place at this level with more responsibility in production matters by DESIGNING templates and proofing pages. Students at this level master their writing, analytical and leadership skills. Students will focus on creative writing assignments, interviewing and reporting skills, for the yearbook pages and also for their portfolios. Photography skills are mandatory. This course sometimes requires extra time outside of class due to class assignments.

TECHNOLOGY EDUCATION

As a field of study, it covers the human ability to shape and change the physical world to meet needs, by manipulating materials and tools with techniques.

DEPARTMENT COURSES								
COURSE TITLE	**YR.**	**SEM.**	**CREDIT**	**9**	**10**	**11**	**12**	**WEIGHTED**
Women in STEM	X		1	X	X	X	X	
Women in STEM 2	X		1		X	X	X	
Intro to Networking	X		1	X	X	X	X	
Basic Materials Appl.		X	0.5	X	X	X	X	
Materials Appl. 1	X		1		X	X	X	
Materials Appl. 2	X		1			X	X	
Robotic Systems 1	X		1	X	X	X	X	
Robotic Systems 2	X		1		X	X	X	
Robotic Systems 3	X		1			X	X	
Drone Academy	X		1	X	X	X	X	
Technology In Motion	X		1	X	X	X	X	
Electronics Technology		X	0.5	X	X	X	X	
Fab Lab 1	X		1		X	X	X	
Fab Lab 2	X		1			X	X	
Fab Lab 3	X		1				X	
PLTW: IED	X		1	X	X	X	X	
PLTW: POE	X		1		X	X	X	X
PLTW: CEA	X		1	X	X	X	X	X
PLTW: EDD	X		1			X	X	X
Mobile Game Design		X	0.5	X	X	X	X	

Women in STEM

Through hands-on learning, this course will engage students in the science, technology, engineering, and math areas through a 9-week rotation course. The areas will include Digital Modeling and Fabrication, Robotics, Engineering and Manufacturing. Throughout the year, the course will not only introduce girls to areas in S.T.E.M. but will familiarize them with the evolving jobs of the future through presenters in the fields. Female students whom are interested in exploring the S.T.E.M. opportunities through an applied approach are encouraged to register.

Women in STEM 2

Prerequisite: Women in STEM or 10th – 12th grader with teacher recommendation who want to explore an independent project in a STEM related career.

Through continued hands-on learning, this course will focus on engaging students in Science, technology, engineering, and math. Students will build on their knowledge gained from women in STEM 1 and apply it through hands on activities, projects, and competitions. Female students interested in exploring a career in science or engineering are encouraged to register.

Introduction to Networking

This course uses a SOHO network to introduce some basic networking concepts such as cabling, addressing, wireless, and security, and teaches students how to plan, deploy, and troubleshoot a small network.

Basic Materials Application

Traditionally referred to as wood shop, this course is designed to be a hands-on, project-based class in which students develop basic shop skills, a proper safety attitude, and basic skills in a wood/metal project construction. The course will focus around the concept of "learning by doing" and also follow the STEM (Science Technology Engineering and Math) Curriculum.

Materials Application 1

Traditionally referred to as wood shop, the students will learn how to work with a variety of machines and processes found in the trades. During this course, students will learn how to plan, select and use materials, including tools and machines to produce a finished product. Emphasis will be on safety and quality of workmanship. The students will complete various instructor led projects.

Materials Application 2

Prerequisite: Materials Application 1 or Basic Materials Application, Fab Lab 1, Robotics 2 and teacher recommendation

This course is offered for the advanced student interested in learning lifelong skills in the area of construction and manufacturing. During this course students will continue to build on their knowledge in planning a project, selection and use materials, including tools and machines to produce a finished product. Emphasis will be on safety and quality of workmanship. The students will do 1 required project and then the (with direction) will select the rest. (The instructor will decide if the student has the ability for any given project.) This class is about the world of work and each student will need to be in attendance and participate fully in all activities.

Robotic Systems 1

The Robotic Systems unit of study is a 36-week course. Students will start off learning about engineering and engineering problem solving. This curriculum isn't designed around any specific competition game. The lessons learned and concepts described apply equally to a robot being built for an in-classroom game, and to a robot being built to play at the VEX Robotics World Championship. Teachers have the option to structure their course in a variety of different ways, built around the excitement of a competition robotics project.

Robotic Systems 2

Prerequisite: Robotic System or Drone Academy, Electronics, Fab Lab 2 and teacher recommendation

In this course, students will apply all the skills and knowledge gained in the previous courses to design, prototype, test, build and evaluate robots for the Vex Robotic Competitions and the 4lb CombatBot Competition. Students will have an advanced understanding of the Vex Robots/Software at this point and they will apply prior knowledge to advanced robot designs and programs. Students will have the opportunity to compete in Regional competitions.

Robotic Systems 3

Prerequisite: Robotic Systems 2 or Fab Lab 2 and teacher recommendation

In this course, students will apply all the skills and knowledge gained in the previous courses to design, prototype, test, build and evaluate robots for the BotsIQ competition. Students will have the opportunity to compete in the southwestern Pennsylvania BotsIQ competition. BotsIQ is a program of studies that unleashes the creative potential of mathematical reasoning, scientific analysis and the clear articulation of ideas. BotsIQ is about inventing. Inventing a new dimension of learning and doing through the invention of competitive robots. The BotsIQ Program places particular emphasis on Student centered design and the use of scientific inquiry. Maintaining a focus on interpersonal and communications skills while developing a practical understanding of related physical science and mathematics skills are essential components to the successful completion of a BattleBot.

Drone Academy

Prerequisite: Algebra 1

Students will be introduced to the world of Unmanned Aerial Systems also known as "Drones". A drone is a vehicle controlled by an autopilot under the supervision of a remote operator. Students will be introduced to operating, programming and building unmanned ground and aerial vehicles. Robotics, electronics, and programming are covered in this course.

Technology In Motion

This course describes the history and development of power/transportation systems. Students will experiment with power/energy converters, hydraulics, pneumatics, transmissions, electrical-electronic control systems, and computerized control systems. Career areas will be identified.

Electronics Technology

Basic concepts of both AC and DC simple and complex circuits will be covered. Circuits pertaining to semiconductors, power supplies, amplifiers, communication, and integrated circuits will also be introduced. The course is very lab oriented covering a variety of techniques in circuit analysis, equipment operation, computer software analysis, and project construction incorporating a wide variety of applications.

Fab Lab1

This course will offer an innovative and dynamic learning environment where students will learn to use a variety of CAD software packages such as AutoCAD, Illustrator, Cadworxslive, Inventor etc. to create prototypes and solve real world problems. Students will bring their 2D vector drawings and 3D designs to life with 3-D printers, lasers cutters, Computer Numerical Control (CNC) routers using foam, vinyl, metal, and plywood. This course will prepare students for digital modeling and fabrication spanning a variety of industries.

Fab Lab 2

Prerequisite: Students should have taken one of the following classes: Fab Lab 1, Materials 1, Electronics, PLTW, Robotics 1, Women in STEM, Drone academy or teacher recommendation.

This course is designed to build on the fundamentals learned in Digital Modeling and Fabrication 1. Students will join design with production through the use of a variety of CAD software packages. Students will work in teams to create, prototype, test and build a product using the FAB LAB tools available. Emphasis will be on student centered design.

Fab Lab 3

Prerequisite: Students should have taken one of the following classes: Fab Lab 2, PLTW, Robotics 2, Drone Academy, Materials 2 or teacher recommendation.

This course covers advanced work in Computer Aided Design (CAD) software and 3D modeling using the FAB LAB tools and machines to solve a problem, create, invent, or innovate. The course is set up for specialization and independent study.

Pathway to Engineering: Introduction to Engineering Design (IED)

Prerequisite: Algebra 1

The major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.

Pathway to Engineering: Principles Of Engineering (POE)

Prerequisite: IED

Designed for 10th - 12th grade students, this survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.

Pathway to Engineering: Civil Engineering and Architecture (CEA)

Prerequisite: Algebra 1

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

Pathway to Engineering: Engineering Design and Development (EDD)
Prerequisite: POE
In this capstone course, students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. Students perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams design, build, and test their solutions while working closely with industry professionals who provide mentoring opportunities. Finally, student teams present and defend their original solution to an outside panel. This course is appropriate for 12th grade students.

Mobile Game Design
In the fun, hand-on, project-based course, students use free GameSalad software to create games that can be played on iOS or Android devices.

FAMILY & CONSUMER SCIENCE

The profession and field of study that deals with the economics and management of the home and community. Family and consumer science deals with the relationship between individuals, families, and communities, and the environment in which they live.

DEPARTMENT COURSES								
COURSE TITLE	**YR.**	**SEM.**	**CREDIT**	**9**	**10**	**11**	**12**	**WEIGHTED**
Beginners Sewing		X	0.5	X	X	X	X	
Advanced Sewing		X	0.5		X	X	X	
Foods 1		X	0.5	X	X	X		
Foods 2		X	0.5		X	X	X	
International Foods		X	0.5			X	X	
Healthy Foods Fast		X	0.5			X	X	
Child Development 1		X	0.5	X	X	X	X	
Child Development 2	X		1		X	X	X	

Beginners Sewing

This course is designed to gain an understanding of basic sewing skills. It includes learning how to do simple alterations, hand stitching, and sewing on buttons; as well as operating a sewing machine. Teacher instruction will be given to the students in completing sewing projects.

Advanced Sewing

Prerequisite: Beginners Sewing

Students will build upon the basic skills they learned in Beginners Sewing class, by completing more complicated clothing and home décor projects. In addition to machine sewing techniques, students will be instructed in using commercial patterns.

Foods 1

This course includes the study of nutrition and basic cooking and baking skills. Units covered include nutrition, kitchen and food safety, measuring techniques, quick breads, yeast breads, pie preparation, cakes and cookies.

Foods 2

Prerequisite: Foods 1

This course includes a study of the nutritional needs across our lifespan as well as of the individuals with health issues. It includes planning nutritional meals that are eye appealing. Food units include: grain/pasta, microwave cooking, vegetables/fruits, milk, eggs and meats.

International Foods 

Prerequisite: Foods 1 and 2

This course includes the study of International Foods. Students will be required to research the foods and customs from a chosen country. They will share, plan, and prepare recipes from that country. The students will learn to entertain, prepare, and serve food creatively.

Healthy Foods Fast

This class is designed for the older student preparing to be on their own. It is strong in showing the student healthy and fast preparation of foods on a limited budget. It will show shortcuts in preparing convenience/commercial food products.

Child Development 1

This course includes: The study of why children act the way they do, responsibilities of parents, teen pregnancy, parenting skills/styles/responsibilities, family structures, prenatal development, pregnancy and baby's arrival.

Child Development 2

Prerequisite: Child Development 1

This class is a continuation of Child Development 1. The students study the physical and emotional development of the child from ages 1-4. They plan and coordinate lessons related to math, history, science, art, music and reading. The storylines of books are used to create thematic units. Students cover topics of Positive Parents Techniques, Child Abuse, and Children's Authors such as Dr. Seuss, to create posters, pamphlets, and bulletin boards.

FINE ARTS

The Arts - visual art, theater, music, and dance-extend the human experience by providing the means of expression that go beyond ordinary speaking and writing.

College entrants will find study of the arts can engage the imagination, foster ways of thinking, develop disciplined effort, and build self-confidence.

ART DEPARTMENT COURSES								
COURSE TITLE	**YR.**	**SEM.**	**CREDIT**	**9**	**10**	**11**	**12**	**WEIGHTED**
Art 1	X		1	X	X	X	X	
Art 2	X		1		X	X	X	
Art 3	X		1			X	X	
Advanced Art	X		1	X	X	X	X	X
Fashion/Accessories Design		X	0.5		X	X	X	
Honors Art	X		1			X	X	X
Watercolors 1		X	0.5	X	X	X	X	
Pastels		X	0.5	X	X	X	X	
Watercolors 2		X	0.5		X	X	X	
MUSIC DEPARTMENT COURSES								
Band	X		1	X	X	X	X	
Chorus	X		1	X	X	X	X	
Music Theory		X	0.5	X	X	X	X	X
Advanced Music Theory		X	0.5		X	X	X	
Fundamentals of Conducting/Musicianship		X	0.5	X	X	X	X	
Musical Theatre Arts 1		X	0.5	X	X	X	X	
Musical Theatre Arts 2		X	0.5	X	X	X	X	
Musical Theatre Arts 3		X	0.5		X	X	X	
Sight-Singing		X	0.5		X	X	X	
Voice 1		X	0.5		X	X	X	
Voice 2		X	0.5		X	X	X	
Voice 3		X	0.5			X	X	
Piano 1		X	0.5	X	X	X	X	
Piano 2		X	0.5	X	X	X	X	
Piano 3		X	0.5		X	X	X	
Piano 4		X	0.5		X	X	X	
Music Technology		X	0.5	X	X	X	X	
Class Guitar		X	0.5	X	X	X	X	
Class Guitar 2		X	0.5	X	X	X	X	
Instrumental Lab		X	0.5	X	X	X	X	
Music Composition		X	0.5		X	X	X	
Music Lab		X	0.5	X	X	X	X	

ART

Art 1

This class is designed for all classes to reinstitute the foundation and to create project based art-work through the whole year. Students will be required to complete all projects designed for this course in order to get a grade for each semester. Students will be required to work two-dimensional and three-dimensional with projects to develop growth in each area. Art History and Cultural studies will be required in this class. Students in the junior high must maintained a B before you can be considered for this course.

Art 2

Prerequisite: Art 1, High School Level

This course is a continuance from Art I. Students will be refining their techniques, skills and mastering the basic principles of art. Art History and cultural studies is applied to this class.

Art 3

Prerequisite: Art 2, High School Level

Art 3 is a course designed for the senior student who has fulfilled the requirements of Art 1 and Art 2. The student will continue to explore different media and techniques while continuing to develop their own creative style demonstrating their knowledge in basic art principles. Art History and cultural studies is part of the learning in this class.

Advanced Art 

Prerequisite: A five-piece artwork portfolio approval

Advanced Art is a three-year program for students who are accelerated or have plans on attending a post-secondary institution in visual art. During the first year, students will learn the principles and elements of art, with a focus on color theory and design. Within the second year, students will focus on a more intermediate/advanced level of 2-D and 3-D arts. In the third year, students will work independently, under teacher supervision, on individual projects. Third year students, will be required to participate in an art show. Art history and cultural studies will be introduced in each level. Students in advanced art have the opportunity to be inducted into the National Art Education Association Honor Society.

Honors Art

Prerequisite: Satisfactory completion of Advanced Art or approved portfolio, Senior High art teacher recommendation

This program provides the Advanced Art student time for experimentation and self-expression to develop their understanding, insight, and evaluation of the creative process. This class is combined with Honor II to provide the students with a foundation for what is expected in the next level. Art History is included in this course.

Fashion/ Accessories Design

Prerequisite: Art 1 at the High School

Students will study the history of fashion and accessories as it relates to culture, will differentiate between fads, trends, and classics, and will style and design or repurpose fashion and accessories, using color theory and fashion knowledge. Specific pieces will be displayed at the annual art show and/or at a school fashion show, modeled by volunteers.

Pastels

The beginner student will explore and experiment with chalk pastels applied to various colored texture papers to form a good foundation for developing techniques and methods in pastels. Each skill learned will be a foundation for the next to expand one's performance. The advanced student is required to use chalk and oil pastels to develop and refine old and new techniques in order to create and master skills in this medium. Art History and cultural studies are included in this course for all students in this class.

Watercolors 1

Prerequisite: Senior High Advanced Art

The main focus of this class is developing a foundation for the beginner and refining the advanced student in methods and techniques through watercolors. Each student will develop his/her own individual style and approach through class projects.

Watercolors 2

Prerequisite: Self – Expression Watercolors 1 with a "B" or teacher recommendation

Self-Expression Watercolors II is a continuation of Self Expression Watercolors I. This course is open to students who have mastered the methods and techniques in Self-expression Watercolors I. Students will work more independently on projects. Four watercolors projects are required. The final project will need to include special effects. Artwork must be matted to display.

MUSIC

Concert Band

Prerequisite: Audition by Band Director

The Concert Band is a large ensemble musical experience that meets every day, and will be offered to students that have had previous instrumental instruction. It is available for students who demonstrate the musical skills and competencies necessary to perform music ranging from grade 2.5 - grade 4 level of difficulty (on a scale of 1-6). Due to the range of musical skills of senior high musicians, placement into this ensemble is by audition and band director recommendation. Participation in group performances is **required** for all members and may include public concerts, school concerts, and the commencement ceremony. Opportunities to audition for PMEA festivals, local honor band festivals, and adjudication festivals will be offered. Concert Band members are encouraged to participate in the marching band as a regular part of the program. Instrumental Lab lesson periods are recommended to be scheduled along with Concert Band in order to learn and master new skills to enhance eligibility for advancement to Symphonic Band for the next school year.

Symphonic Band

Prerequisite: Audition by Band Director

The Symphonic Band is a large ensemble musical experience that meets every day, and will be offered to students that have had previous instrumental instruction. It is available for students who demonstrate the musical skills and competencies necessary to perform music ranging from grade 3 - grade 6 level of difficulty (on a scale of 1-6). Due to the range of musical skills of senior high musicians, placement into this ensemble is by audition and band director recommendation. Participation in group performances is **required** for all members and may include public concerts, school concerts, and the commencement ceremony. Opportunities to audition for PMEA festivals, local honor band festivals, and adjudication festivals will be offered. Symphonic Band members are encouraged to participate in the marching band as a regular part of the program. A jazz ensemble experience may be offered to selected students. Instrumental Lab lesson periods are recommended to be scheduled along with Symphonic Band so students can learn and master more difficult playing techniques on an individual basis, which in turn, will increase the achievement level of Symphonic Band.

Senior High Chorus (Chamber Ensemble, Concert Choir, Belle Choir, 9th Grade Chorus)

Prerequisite: Audition by Director

Large ensembles with vocal experience, including Chamber Ensemble, Concert Choir, Belle Choir, and 9th grade Chorus that meet every day, will be offered to students that have musical skills and competencies necessary to perform music ranging from grade 3 to grade 6 level of difficulty (on a scale of 1 - 6). Due to the range of musical skills of the senior high musician, placement into the appropriate ensemble will be by audition and teacher recommendation. Participation in all performances of the ensembles is **required** for all members and is a part of each singer's grade. Performances may include public concerts, school concerts, PMEA festivals, district choral festivals, adjudication festivals, etc. A Chamber Ensemble experience will be offered to selected students.

Music Theory 

Prerequisite: Teacher recommendation

This course is designed to enhance music skills and basic music fundamentals. The essential aspects of melody, harmony, rhythm, and form are studied. Throughout the semester, students will study basic notation, rhythms, meter, scales, key signatures, intervals and chords.

Advanced Music Theory

Prerequisite: Any band or choral student who has taken the level 1 music theory class or by teacher recommendation.

This course is a continuation of skills learned and developed in Music Theory. It will cover advanced chord construction and identification, chord progressions, modes, form and more complex rhythms and meters.

Musical Theatre Arts 1

An introductory musical theatre course incorporating acting and singing at a novice level. Students will study the elements of plays and musicals and will have multiple performance opportunities including, monologues, dialogues, group scenes and singing. Students will be expected to memorize lines and be comfortable singing in small groups and individually. Skills are expected to be developed via performance experience and both teacher and peer feedback.

Musical Theatre Arts 2

Prerequisite: Musical Theatre Arts 1

This course is a continuation of Musical Theatre Arts 1 and will further expand upon the skills developed in MTA 1. As with the first level, students are expected to be able to memorize and sing in groups and individually.

Musical Theatre Arts 3

Prerequisite: Musical Theatre Arts 1 and 2

Students will even further develop skills from MTA 1 and 2, and be held to higher standards regarding their performances. The course will focus on more long-form scenes and singing complete musical-style songs.

Fundamentals of Conducting/Musicianship

Prerequisite: Current and past band or choral ensemble members and teacher recommendation

This course is designed to give music students an opportunity to investigate several subgroups of music study. Areas of study include: conducting, score reading, score study, arranging, psychology of music, preliminary music history, and career opportunities in music.

Sight-Singing

Prerequisite: Teacher recommendation

Advanced studies in music skills are available to juniors and seniors through concentrated classes in sight-singing and ear training.

Voice 1

Prerequisite: Teacher recommendation

Class voice will teach the fundamental techniques of solo singing that includes breath control, resonance, diction, and 100% commitment to performance. Each student will learn and perform for the class Italian and English art songs, sacred and Broadway literature.

Voice 2

Prerequisite: Class Voice 1 and teacher recommendation

Class voice will be a continuation of Class Voice 1, teaching the fundamental techniques of solo singing that includes breath control, resonance, diction, and 100% commitment to performance. Each student will learn and perform for the class Italian and English art songs, sacred and Broadway literature.

Voice 3

Prerequisite: Class Voice 1, 2, and teacher recommendation.

Class Voice 3 is a continuation of Class Voice 2. This course gives the student further opportunity for mastery of the fundamental techniques of solo singing which include breath support and control, resonance, diction, performance techniques, etc. Each student will learn and perform standard solo vocal repertoire which may include: Italian, English, German or French art songs, folk and sacred songs, and Broadway literature.

Piano 1

A group piano course that welcomes all CAHS students from novice to advanced. Students are given playing and piano theory assignment deadlines but are assigned at the individual's ability and pace. Every student has the benefit of his own digital piano in the piano lab. The instructor assigns and monitors each student throughout the semester, assigning and evaluating each player independently.

Piano 2

Prerequisite: Piano 1

A group piano course that is intended for those students that have successfully taken Piano 1. Students will continue their piano progress from their achieved level while playing assigned pieces, as well as developing certain music theory concepts that pertain to playing the piano. Students will also compose a piece of music for the piano.

Piano 3

Prerequisite: Piano 1 and 2

A group piano course intended as a further continuation of the instruction from Piano 1 and 2. Students will continue preparing selections from the method book, as well as some supplemental solos assigned as the instructor's discretion. They will also learn about more advanced music theory concepts, as well as further develop their music composition skills.

Piano 4

Prerequisite: At least two prior semesters of piano, or one semester with private lessons outside of school. Must have instructor's approval

This course is a more focused and advanced follow-up to the other piano classes. Students must have taken at least two semesters of piano classes, or one semester if they have taken private lessons, and must have instructor's approval to take the course. Students in this course will focus on more advanced playing techniques, as well as other supplemental activities to improve on their skills, including, but not limited to, composition, music theory and music technology. This course will be beneficial to both students who are pursuing a career in music education as well as those who simply want to develop their playing abilities further.

Music Technology

The student will experience Music Technology via MIDI Applications through interfacing synthesizers and computer technology.

Class Guitar

An introductory/ intermediate acoustic guitar class. Beginning with guitar care and tuning but progressing to reading standard notation, reading tablature, picking, strumming, and chording. Guitars and materials are provided. Novices welcome but those with experience encouraged to register.

Class Guitar 2

Prerequisite: Class Guitar

A continuation of concepts introduced in Class Guitar. Further study of guitar care, tuning, reading standard notation, tablature, picking, strumming and chording. Guitars and materials are provided.

Instrumental Lab

Prerequisite: Teacher recommendation

The Instrumental Lab course will provide students an opportunity to continue to build upon fundamentals in technique, musicality, and repertoire. Instruction will offer continued focus on the refinement of tone quality, technique, music theory skills, and literacy. Students will also be provided the opportunity to work in small groups and prepare solo literature. Students must maintain their membership in Concert Band Symphonic Band or Marching Band to be awarded credit for this course.

Music Composition

Prerequisite: Teacher recommendation.

Music Composition is an introductory composition course. The basics of music writing including melody, harmony, and form will be covered with the goal of student created compositions.

Music Lab

The Music Lab will provide students an opportunity to continue to build upon the fundamentals of technique, musicality, theory skills and repertoire. This course will provide students an opportunity to work in small groups or individually.

HEALTH & PHYSICAL EDUCATION

HEALTH COURSE (One-half (.5) unit of Health is required for graduation.)								
COURSE TITLE	**YR.**	**SEM.**	**CREDIT**	**9**	**10**	**11**	**12**	**WEIGHTED**
Health		X	0.5			X	X	
HEALTH ELECTIVES								
Advanced Health		X	0.5				X	
PHYSICAL EDUCATION COURSES **(Three semesters of Physical Education are required for graduation, one must be Physical Education 9 (Swim/Gym))**								
Physical Education 9 (Swim/Gym)		X	0.4	X				
Physical Education 10		X	0.4		X	X	X	
Physical Education 11/12		X	0.4			X	X	
Advanced Swim/Gym		X	0.4			X	X	X
Introduction to Weight Training/Conditioning		X	0.4	X	X	X	X	
Advanced Weight Training/Conditioning		X	0.4	X	X	X	X	
Fitness For a Lifetime		X	0.4	X	X	X	X	

HEALTH

Health

Graduation Requirement

Health is a required course for graduation. It consists of the study of the total individual from infancy through old age. It is the function of health education to initiate a consciousness of and appreciation for the practices that lead to a healthy lifestyle.

Advanced Health

Prerequisite: Successfully completed Health with recommended "C" grade minimum

Advanced Health provides advanced and in-depth instruction in the development of a positive lifestyle that promotes overall well-being. Any student considering a health-related occupation should consider this course as an elective.

PHYSICAL EDUCATION

Physical Education 9 (Swim/Gym)
Graduation Requirement
This class consists of activities promoting individual lifetime skills. Swimming skills will consist of stroke refinement, survival skills, safety and recreational aquatic activities. Physical Education provides both individual and team sports, as well as a variety of lifetime carry-over activities. The program also stresses individual fitness, sports, competitive games and dance.

Physical Education 10
Graduation Requirement
This class consists of activities promoting individual lifetime skills. Physical Education provides both individual and team sports, as well as a variety of lifetime carry-over activities. The program stresses individual fitness, sports, competitive games and dance.

Physical Education 11/12
****Can be taken to fulfill the 3rd graduation requirement.***
This class consists of activities promoting individual lifetime skills. Students will have the opportunity to utilize basic kinesthetic skills by engaging in physical activities promoting the advancement of cardiovascular and aerobic fitness, muscular strength and endurance, flexibility and team participation.

Advanced Swim/Gym
Prerequisite: Students must have successfully completed Physical Education 9 with a recommended "B" grade minimum.
****This class may be taken in place of Physical Education 11/12 as a graduation requirement.***
This course is designed for students who are interested in challenges and competition that go beyond those experienced in a regular physical education class consisting of both pool and gym time. This class will focus on the skills taught in Physical Education 9 & 10 and expand to a more competitive level. This swimming portion will also focus on lifeguard readiness skills and one's ability to later participate in a lifeguard certification class.

Introduction To Weight Training / Conditioning

This class may be taken in place of Physical Education 11/12 as a graduation requirement.
Introduction to Weight Training / Conditioning is an entry level elective course within the Health & Physical Education Department that is offered to all 9th – 12th grade students. The emphasis of the course is to establish guidelines for weight room safety, warm-up/cool down procedures, lifting technique and safety for all lifts, major muscle identification, and individual goal setting. Class size will be limited to 20 students. Students will participate in various elements of a total weight training / conditioning program. The program will use basic movement patterns to provide a strong foundation for future strength training. The course includes both lecture and activity sessions. Various activities will be conducted to help each student reach their maximum potential. The activities will include, but not limited to, a variety of strength training techniques, upper and lower body plyometrics, medicine ball training, flexibility, balance, reaction time, coordination, power, speed, agility and cardiovascular development.

Advanced Weight Training/Conditioning

Prerequisite: Introduction to Weight Training/Conditioning or teacher recommendation
This class may be taken in place of Physical Education 11/12 as a graduation requirement.
Advanced Weight Training / Conditioning is an extremely high intensity course designed to meet the needs of highly motivated students within the Connellsville Area High School. It is an elective course within the Health & Physical Education Department that is offered to all 9th – 12th grade students. The emphasis of the course is to build the total athlete/person. Class size will be limited to 20 students, therefore, preference for class enrollment will be given to students that participate in athletic programs at CAHS. Students will participate in various elements of a total weight training / conditioning program. The program will stress improvement in physical strength, cardiovascular efficiency, and nutritional habits. The course includes both lecture and activity sessions. Various activities will be conducted to help each student reach their maximum potential. The activities will include, but not limited to, a variety of strength training techniques, upper and lower body plyometrics, medicine ball training, flexibility, balance, reaction time, coordination, power, speed, agility and cardiovascular development.

Fitness For A Lifetime

****This class may be taken in place of Physical Education 11/12 as a graduation requirement.***
This class will focus on fitness, placing a higher emphasis on personal fitness, rather than the traditional high school curriculum. Students can expect to be challenged on varying aspects of fitness using specific activities to enrich targeted fitness areas. Students will learn why regular planned physical activity is important, how to develop a personal plan for being physically active and concepts necessary for successful participation. Students will set short- and long-term fitness goals, and work throughout the semester to reach their fitness goals.

CAREER TECHNICAL CENTER

The purpose of all education is to prepare students to join the workforce and become successful in a career. The CTC programs of study provide students the opportunity to explore and experience careers while in high school and apply their academic and technical skills in relevant real-world settings.

Students that attend the CTC in their 9th and 10th grade years receive technical training on a part-time basis, receiving their academic core classes at the district's senior high school and their technical program of study at the CTC. Students that attend the CTC in their 11th and 12th grade years receive their academic core classes and technical training at the CTC on a full-time basis.

Our courses follow the Programs of Study (POS) educational plan which is designed for the college-bound student who wishes to continue education at colleges and technical schools across the state, enter directly into the workforce, or join the military. Students may qualify for college credit with program completion while attending the CTC, which allows them to finish their degree and/or certification requirements in less time and for less money.

The CTC's mission is to prepare every student for the world of work with the technical competencies, academic skills, and attitudes that are necessary for both entry level employment and continuing education. The 13 programs at the CTC prepare secondary students for high-priority jobs in the region and state.

COURSE TITLE	YR	CREDIT	9	10	11	12	WEIGHTED
Auto Collision Repair	x	2-3	x	x	x	x	
Automotive Technology	x	2-3	x	x	x	x	
Carpentry	x	2-3	x	x	x	x	
Computer Networking	x	2-3	x	x	x	x	
Cosmetology	x	2-3	x	x	x	x	
Culinary Arts	x	2-3	x	x	x	x	
Electrical Occupations	x	2-3	x	x	x	x	
Health Occupations	x	2-3	x	x	x	x	
Heavy Equipment Operator	x	2-3	x	x	x	x	
HVAC	x	2-3	x	x	x	x	
Masonry	x	2-3	x	x	x	x	
Protective Services	x	2-3	x	x	x	x	
Welding & Metal Fabrication	x	2-3	x	x	x	x	

AUTO COLLISION & REPAIR

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

AUTOMOTIVE TECHNOLOGY

An instructional program that prepares students to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems and drive train and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components and air conditioning and includes the use of technical repair information and the state inspection procedures. Students completing this program have the opportunity to earn OSHA, Pennsylvania Inspection Mechanic, Pennsylvania Emissions Inspector and EPA 609 Refrigerant and Recovery certifications.

CARPENTRY

An instructional program that prepares students to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques. Students completing this program have the opportunity to earn OSHA certification.

COMPUTER NETWORKING TECHNOLOGY – CISCO ACADEMY

An instructional program that prepares students to apply technical knowledge and skills related to experiences in the computer network industry. As a CISCO Academy program, the Computer Networking Technology program focuses on the design, implementation and management of linked systems of computers, peripherals and associated software. It also prepares students with the technical skills required to support networks and network users, system design, architecture, operating systems, security, communications protocols, client support, messaging services, network management, trouble-shooting and server optimization. Students completing this program have the opportunity to earn CompTIA Network Plus, A+ and OSHA.

COSMETOLOGY

An instructional program that prepares students to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, dyeing, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized. Instruction is designed to qualify pupils for the Pennsylvania Cosmetology licensing examination; students must complete 1250 hours and earn a passing grade in order to be eligible for the exam. Students completing this program also have the opportunity to earn OSHA certification.

CULINARY ARTS

An instructional program that prepares students for employment related to institutional, commercial or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing and serving of quantity food and food products, nutritive values, use and care of commercial equipment, safety, and sanitation precautions. Instruction skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level. Since this course requires students to have contact with "outside" guests on a regular basis, personal development and attitudes are stressed during the entire course. Students completing this program have the opportunity to earn ServSafe and OSHA certifications.

ELECTRICAL OCCUPATIONS

An instructional program that prepares students to apply technical knowledge and skills necessary to install, operate, maintain and repair electrically-energized residential, commercial and industrial systems, and DC and AC motors, controls and electrical distribution panels. Instruction emphasizes practical application of mathematics, science, circuit diagrams and use of electrical codes and includes blueprint reading, sketching and other subjects essential for employment in the electrical occupations. Reading and interpretation of commercial and residential construction wiring codes and specifications, installation and maintenance of wiring, service and distribution networks within large construction complexes are also critical components of the program. Students completing this program have the opportunity to earn OSHA certification**.**

HEALTH OCCUPATIONS

An instructional program that provided a combination of subject matter and experiences designed to prepare students for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of clinical experiences in health-related occupations and an introduction to health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications. Instruction will be provided in body structure and function, medical and dental terminology, office duties, medical assisting skills and dental chair side assisting skills. Students enrolled in the nursing assistant program are given the opportunity to complete a clinical experience and qualify to take the CNA exam. Students completing this program have the opportunity to earn OSHA, CPR and First Aid certifications.

HEATING VENTILATION & AIR CONDITIONING

An instructional program that prepares students to apply technical knowledge and skills to install, repair and maintain commercial and domestic heating, air conditioning and refrigeration systems. Instruction includes theory and application of basic principles involved in conditioning of air (cooling and heating); filtering and controlling humidity; operating characteristics of various units and parts; blueprint reading; use of technical reference manuals; the diagnosis of malfunctions; overhaul, repair and adjustment of units and parts such as pumps, compressors, valves, springs and connections; and repair of electric/electronic and pneumatic control systems. Students completing this program are eligible for EPA Section 608 Technician certification as well as OSHA Certification.

HEAVY EQUIPMENT OPERATION

An instructional program that prepares students with an understanding of the fundamentals of operation and maintenance of various types of heavy equipment. Included in this course of study is an introduction to the job opportunities available to heavy equipment operators. Students will be instructed in the proper use of equipment, basic maintenance of the machines, and will receive extensive field practice in earth moving, site-preparation, construction site layout, excavation and back filling of building sites. In addition, they we learn to use a transit and hand levels, oxyacetylene and other welding equipment, blueprint reading, and they will become familiar with OSHA rules. Heavy Equipment Operators are employed in a variety of occupations including the construction industry, road construction, and mining. Students completing this program have the opportunity to earn OSHA certification.

MASONRY

An instructional program that prepares students to apply technical knowledge and skills in the masonry industry to be proficient masons. Students are trained in blueprint reading, layout leveling, estimating, and the care and safety of hand and power tools. Learning is accomplished through a combination of classroom theory and actual hands-on project completion. Students learn to lay out foundations, mix mortar, arches, fireplaces, walks, columns and chimneys. The materials of the trade include brick, tile, glass, stone, marble and concrete. Students completing this program have the opportunity to earn OSHA certification**.**

PROTECTIVE SERVICES

An instructional program that prepares students to apply technical knowledge and skills required for performing entry-level duties in law enforcement, firefighting, EMT and other safety services. This program stresses the techniques, methods and procedures peculiar to the areas of criminal justice and fire protection especially in emergency and disaster situations. Physical development and self- confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication. Students will have the opportunity to test for the following industry certifications: EMT, First Responder, First Aid, CPR, Fire Fighter I, Basic Vehicle Rescue, Basic Rope Rescue, Advanced Rope Rescue and Advanced Vehicle Rescue as well as OSHA certification.

WELDING & METAL FABRICATION

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

ACADEMIC CURRICULUM

CORE COURSES

ENGLISH

(4 Credits of English are required to graduate, including a credit of Academic English 9, Academic English 10, Academic English 11 & Academic English 12)

COURSE TITLE	YR.	SEM.	CREDIT	9	10	11	12	WEIGHTED
English 11 CP	x		1			x		x
Academic English 11	x		1			x		
English 12 CP	x		1				x	x
Academic English 12	x		1				x	

MATH

(3 Credits of math are required to graduate, including Algebra 1 or Algebra 1 Part 1 and Algebra 1 Part 2 along with Geometry)

Geometry	x		1			x	x	
Technical Math	x		1			x	x	
Algebra 2	x		1			x	x	
Precalculus (taken at High School)	x		1			x	x	x
Financial Literacy		x	.5			x		

SCIENCE

(3 Credits of science are required to graduate, including Biology)

Biology (taken at the High School)	x		1			x	x	
STEM Science	x		1			x	x	
Anatomy & Physiology	x		1			x	x	x
Essentials of Chemistry	x		1			x	x	x

SOCIAL STUDIES

(3.5 Credits of social studies are required to graduate, including APES and US History II/Modern US History)

World Cultures	x		1			x	x	
American History and Sports		x	0.5			x	x	
Psychology 1		x	0.5			x	x	
PA Local History		x	0.5			x	x	
Financial Literacy		x	.5			x		

PHYSICAL EDUCATION

(3 Semesters of physical education are required to graduate, along with ½ credit of health)

Physical Education		x	0.4			x		
Health		x	0.5			x		

English 11 CP - This is an advanced English class which builds on the skills covered in English 10 CP. This one-year course is designed to give the student thorough English instruction in literature, including a novel study, and practice in grammar/vocabulary skills in writing. The students will read, evaluate, interpret, and analyze a variety of literature and poetry while discussing such elements as character development, plot, imagery, figurative language, theme, paradox, setting, the short story, narrative poetry, form, and rhyming patterns. Students will also be required to read a number of non-fiction selections in conjunction with the required literature. Students will be expected to complete a variety of writing assignments while reviewing grammar rules. Students will also complete a number of writing assignments related to class and individual reading. Students should expect homework every night. Any student who is college bound should complete this sequence of courses.

Academic English 11 - This is a required course which builds on the skills acquired in Academic English 10. Academic English 11 provides students with a developmental program in reading, writing, listening, speaking, and research. A variety of novels, plays, poetry, short stories, and non-fiction serve as a basis for the study of American Literature and vocabulary study. Students will be expected to complete a variety of writing assignments while reviewing grammar rules, complete a novel study and complete a number of writing assignments related to class and individual reading.

English 12 CP - This is an advanced English class which builds on the skills covered in Academic English 11CP. Writing, thinking and speaking skills will be developed through journaling, essays, and discussion. Intensive study of college vocabulary will be incorporated. Knowledge of British literature will be stressed. Students will learn to read and write aggressively. Any student who is college-bound should complete this sequence of courses. Students will work on a drama, as well as class debates.

Academic English 12 - Academic English 12 is a required course which builds upon skills acquired in Junior English. Writing, thinking and speaking skills will be incorporated into the class work. In this course students will continue to develop knowledge of the basic elements of British literature. Non-fictional writing will be used as a stepping stone to technical writing understanding. Students will work independently and in groups. Students will work on a drama, as well as class debates. Students will work out of the "Succeeding in the World of Work (SITWOW) textbook to enhance career readiness skills.

Geometry - Geometry helps develop both inductive and deductive thinking skills. Through hands-on activities, graphic calculator technology and dynamic geometry software, students investigate basic figures of geometry: triangles, quadrilaterals, polygons, and circles. Students will make and test conjectures about mathematical and real-world patterns.

Technical Math: This elective course places an emphasis on problem solving with specific applications designed to interface with the student's technical program. The following topics are covered focusing on technical and industrial applications: fractions, decimals, measurements (conversions), ratio and proportion, basic algebra skills and geometry. This course will also cover personal finance and consumer skills. Students will review the mathematics needed in industry certification tests as well.

Algebra 2 - A course designed to help the student strengthen basic concepts from the Algebra I course and offer insight into the algebraic processes, emphasize more advanced equation-solving, and introduce more advanced mathematical concepts needed in higher math and science courses.

Precalculus (taken at the high school) - Students taking Precalculus will study the following topics: Angles and triangles, basic trigonometric functions, right triangle trigonometry, oblique triangles, the unit circle, trigonometric graphs, trigonometric identities, inverse trigonometric functions, vectors and the polar system.

Biology (taken at the high school) - Biology students will learn about the relationship of plants, animals, cells, body systems, populations, and biomes in the biosphere through lecture and lab work. Areas of study include; cytology, genetics, zoology, botany, human anatomy and physiology, and nutrition.

STEM Science - Many employers are struggling with new technology as they try to improve the processes they use to produce their products. They are constantly looking for students who can work together in teams and solve problems related to the introduction of new technology. This course is designed to help students understand and apply the techniques presented in an engineering context. Students will learn the engineering design process and how it is used to solve technological challenges.

These are all part of our STEM Education efforts. Over the past decade, jobs in science, technology, engineering, and mathematics (STEM) have grown at a rate three times faster than non-STEM jobs. According to the Department of Commerce, STEM jobs will continue to grow over the next decade at a rate of 17 percent compared to an estimated 10 percent growth in other occupations. Proficiency in STEM projects is more important than ever. These activities are designed to better engage our students in STEM education to help close the achievement gap regardless of gender, ethnicity or background.

This course should provide students with an integrative overview of some of the basic science and technology components associated with their various programs of study. Building upon basic science knowledge, students will use hands-on inquiry-based projects to make connections between science, technology, and society.

Anatomy and Physiology - This course will include a yearlong program of intense human anatomy and physiology studies. The areas covered will include medical terminology, basic chemistry, cell and tissue structure, and the 11 systems of the human body (integumentary, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary and reproductive). Laboratory work will be required, including comparative anatomy dissection labs.

Essentials Chemistry – Essentials of chemistry is the study of the physical and chemical properties of matter. Through lecture and lab work, the student is given the opportunity to learn the structure and function of the elements.

World Cultures - Culture is a common set of beliefs held by a group of people or society. Our religion, our government, even the ground we stand on influences the way our culture presents itself. The differences in the cultural landscape of the world are many, but there are similarities as all humans have similar physical and psychological needs. The focus of this course is to look at both the similarities as well as the differences while we learn about the diverse world in which we live. The course will span the areas of North America, Latin America, Sub-Saharan and North Africa, Europe and the Russian Domain, as well as Southwest, Central, South, Southeast and East Asia, Australia and Oceania. The time frame will focus on modern times but also reach into the past for contextual understanding of the issues at hand.

American History and Sports - Sports in America not only reflect our preferences in competition, but also in our culture! In the fast-paced life of a modern America, baseball losing its viewership is not surprising. Why? How did sports replicate cultural and social norms? How did sports impact race and gender rights? How did sports define a generation? How do sports impact world events and relations? All of these questions will be answered in this course as students engage with not only sports, but their relationship to politics, cultures, and social aspects.

PA Local History - This course is designed to explore the history of the Keystone State. Local history will be emphasized, especially the railroads, coal, coke, and early iron and steel-making industries in Southwestern Pennsylvania.

Psychology - Psychology is an interesting combination of the social sciences and biology. Students will be introduced to the scientific study of psychology, the connection between the body and the mind, the learning and thinking process of the human mind, and the path of human development from infancy through childhood, adolescence, adulthood, and finally death.

Financial Literacy
This semester course's primary objective is to provide students with financial tools and knowledge that will enable them to build the lives they envision. The course will present essential knowledge and content to help the student make informed decisions about real world financial issues. Personal finance will focus on the fundamentals of personal finance, income, spending, saving and investing, risk and insurance, and credit, with a goal of developing individuals who can manage their personal finances.

Physical Education - This course is designed to provide both individual and team sports as well as a variety of lifetime carry-over activities and characteristics. The program stresses individual fitness, sports, competitive games, and dance.

Health - Health is a required course for graduation. It consists of the study of the total individual from infancy through old age. It is the function of health education to initiate a consciousness of and appreciation for the practices that lead to a healthy lifestyle.

STUDENTS: ANY OF THE ABOVE ACADEMIC COURSES, OR ANY OTHER HIGH SCHOOL ACADEMIC COURSE NOT LISTED ABOVE, CAN BE TAKEN AT THE HIGH SCHOOL.

SEE YOUR SCHOOL COUNSELOR FOR MORE INFORMATION.