Fox Chapel Area High School

2026-2027 Course Description Guide

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Introduction

This booklet has been prepared to assist you in planning an effective and realistic high school program. It contains information about various curricular choices, individual course selection, and important school policies. A wide variety of courses are offered to meet the abilities and interests of all students. You should study the contents carefully and consult with your school counselor before you plan a specific schedule for next year.

Keep this publication throughout the school year so you may refer to it for future planning, school policies, graduation requirements, etc. The information and guidelines contained in the booklet can help you avoid difficulties in carrying out your academic program.

As you select your courses, attention should be given to course requirements, entrance prerequisites, and course sequences. You should realistically assess your capabilities and ambitions. If you have any doubts or questions concerning a course, you are encouraged to discuss those concerns with the appropriate teacher or school counselor.

In early spring, next year's freshmen, sophomores, juniors, and seniors will have the opportunity to register for the upcoming year. Please read the course descriptions carefully and be prepared for your conference when it is scheduled. Requests for schedule changes will be difficult, **if not impossible**, to accommodate after May 15.

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Fox Chapel Area School District

Mission Statement

"The Fox Chapel Area School District exists to maximize learning, achievement, and growth through a focus on educating the whole student."

Vision

The Fox Chapel Area School District will engage students in a learning community that values belonging and focuses on the education of the whole student through four pillars for success:

- **Purpose**: Learning and teaching through inclusive, standards-aligned, and culturally responsive approaches that meet the needs of all students, while monitoring growth and success through a data-informed approach for continuous improvement
- **Passion**: Providing students with authentic learning experiences that motivate them to pursue their interests with a focus on educating the whole student.
- **Care**: Fostering safe and supportive learning environments that value the diversity, individuality, social and emotional wellness, and belonging of all students
- **Community**: Partnering and collaborating with the community

Core Values

- **Respect** – Valuing self and others; caring for one's environment; and pride in positive actions
- **Responsibility** – Accountability; taking ownership of what you do; and listening and following through
- **Integrity** – Doing the right thing, even when no one is watching; being honest with self and others; and trustworthiness in thoughts, words, and actions

Belief Statements

We believe that:

- All students want to learn, are capable of learning, and share in the responsibility for their education.
- Contributing partners in the educational process include all district staff, students, families, and the community.
- Responsive schools take a leading role in promoting safety and wellness.
- Educators must be knowledgeable and current in their profession, discipline, and pedagogy.
- It is important for each member of the educational community to recognize and respect all forms of diversity.
- Effective schools are built upon integrity and foster respectful, inclusive, and dynamic environments.
- Schools of excellence have effective educational leaders.
- Fiscal decisions must effectively balance the educational needs of the students and resources of the community.

Graduation Requirements

All graduation requirements are established by the Board of Education for the Commonwealth of Pennsylvania and the Board of Directors of the Fox Chapel Area School District. All credits are to be completed in grades 9-12. The requirements are:

4	credits in English
4	credits in Social Studies
3	credits in Science
3	credits in Math
2.5	credits in Health-Safety Education, Health-Wellness, and Physical Education (.5 credit in Health-Safety Education, .5 credit in Health-Wellness, and 1.5 credits in Physical Education)
9	credits in additional electives, including 2 credits in Arts/Humanities*
0.5	credit Career and Financial Essentials (formerly College and Career Essentials)
1	credit for proficiency requirement (Keystone Exams or assigned project)
27	Total minimum credits

Satisfactory completion of a culminating project and a 12-hour service learning experience are also needed for graduation.

* Arts courses include: arts and crafts, music, media, and courses in technology education, and family and consumer sciences. Humanities courses include: world and classical languages, elective courses in English, and elective courses in social studies.

PA Act 158 compliance through one of the following:

1. Keystone Proficiency
2. Keystone Composite
3. Career and Technical Education Concentrator
4. Alternative Assessment
5. Evidence-Based

For more information on PA Act 158, please contact the school counseling office.

Service Learning Experience

A 12-hour service learning experience is one of the graduation requirements at Fox Chapel Area High School. The purpose of the experience is to educate students about the value of offering their time and talents for the betterment of the community. The 12-hour unpaid experience must then be fulfilled during 9th, 10th, and/or 11th grade. Students may research and select their own organization or agency with which they wish to work, or they may get help in seeking their placement from the service learning coordinator. Students will validate their experience by submitting a summary form to the coordinator after completion of the service. This requirement will then be noted on the student's high school transcript. Students who do not complete 12 hours of service learning by the end of their junior year will receive an "F" on their transcript.

Grade-Level Classification

Designation of sophomore, junior, or senior in the high school is based upon a minimum of credits earned each year. To be considered a 10th grade student, a total of six credits must be earned. To be considered an 11th grade student, a total of 12 credits must be earned. To be considered a 12th grade student, 18 credits must be earned.

Grading System

Letter grades, their percentages, and QPA equivalents are:

Unweighted Grading Scale			***Accelerated/CHS* Weighted Grading Scale***			***AP/CHS AP* Weighted Grading Scale***		
A	100-93	4.0	A	100-93	4.5	A	100-93	5.0
A-	92-90	3.75	A-	92-90	4.25	A-	92-90	4.75
B+	89-87	3.25	B+	89-87	3.75	B+	89-87	4.25
B	86-83	3.0	B	86-83	3.5	B	86-83	4.0
B-	82-80	2.75	B-	82-80	3.25	B-	82-80	3.75
C+	79-77	2.25	C+	79-77	2.75	C+	79-77	3.25
C	76-73	2.0	C	76-73	2.5	C	76-73	3.0
C-	72-70	1.75	C-	72-70	2.25	C-	72-70	2.75
D	69-65	1.0	D	69-65	1.5	D	69-65	2.0
F	64	0	F	64	0	F	64	0

**All College in High School (CHS) courses will use the accelerated/CHS weighted grading scale and receive the extra .5 QPA. However, if the CHS course is also designated as an AP course, then those courses will use the AP/CHS AP weighted grading scale and receive the extra 1.0 in the QPA.*

Quality Point Average (QPA)

The Quality Point Average (QPA) is cumulative and is computed using all grades earned while attending Fox Chapel Area High School. The QPA is compiled at the end of each academic year. Any grade earned in a course taken for makeup is recorded in addition to the grade originally earned in that course; however, credit is granted only once. Summer school grades become part of the record for the following school term.

Quality Point Averages are calculated in two ways. Both QPAs are calculated for each student and recorded on that student's permanent record card. The **unweighted QPA** is calculated without regard to curricular subjects. The quality point equivalent assigned to grades is the same in each course. This places all course offerings on an equal basis and every student has an opportunity to earn a high QPA. The **weighted QPA** places greater emphasis upon more academically challenging courses taken at Fox Chapel Area High School, and is used most frequently in the college admission process. The extra weight is given to grades by increasing their quality point value. The courses receiving this additional weight are all English accelerated courses, all social studies accelerated courses, Biology Accelerated, Chemistry I Accelerated, Physics Accelerated, as well as all AP courses and College in High School (CHS) courses.

Class Rank

Fox Chapel Area High School does not rank its students. Instead of a class rank, deciles will be reported when requested.

Top Scholars

Top Scholars are seniors who comprise the top 5% of the class' weighted cumulative QPA and all 4.0 non-weighted cumulative QPAs.

Student Acceleration and Exemption Policy

The student acceleration and exemption policy will be given upon request.

Student Schedules

Each spring school counselors meet with students to discuss scheduling of classes for the following year. Based on this course selection process, teaching assignments and class offerings are established to build a master schedule. *Because of the intricacies involved, schedule changes cannot be made once the school year begins.*

It is the responsibility of the student and parent to review student schedules when they are received in the summer. If there is an error on the student's schedule, the parent should contact the appropriate school counselor prior to the beginning of the school year and make the necessary correction. *An exception to this guideline is if a student fails to meet the prerequisite of a course and a change is necessary.*

The school does not honor parent and student requests for teacher preferences.

Withdrawal From a Course

Under the flexible block scheduling plan, a full load is considered 3.5 or 4 credits per semester. Students can take a maximum of five credits per semester, with Fox Chapel Area Online (FCAO) courses as a fifth period option. As a result, students will not be permitted to withdraw from a course to take a study hall. Any request for withdrawal from a course will be subject to review by one of the high school principals. If the withdrawal is approved, students may be expected to remain in the original course until placement into an alternate course can be made. An approved withdrawal from a course is subject to one of the following consequences:

1. A course dropped prior to the end of the first two weeks of class will receive no notation on the high school transcript.
2. If a student is achieving a passing grade in the course and the course is dropped after the first two weeks but prior to the halfway point, "WP" (Withdraw Passing) and/or WF (Withdraw Failing) is recorded on the high school transcript and no credit is granted.
3. You cannot withdraw from a course after the first nine weeks of a semester course.

Education of Exceptional Children

The Fox Chapel Area School District is committed to an educational program that provides all students with the opportunities to develop according to their potential. Inherent in this commitment is the realization that students who qualify for special education services have unique abilities, talents, interests, and needs.

Students are identified for these services by an Individualized Education Program (IEP) team (which includes the parents) after the team reviews the results of a multidisciplinary evaluation. Educational placement and specially designed instruction are determined by the student's IEP.



Gifted Education

A Gifted Individualized Education Program (GIEP) meeting is held annually with the gifted education teacher, student, and parent to develop the educational plan which addresses the student's needs. In addition, students may choose to involve themselves in a variety of individual or small-group opportunities such as seminars, apprenticeships, mentorships, competitions, and field experiences. These opportunities are tailored to the students' needs, abilities, and interests while encouraging them to develop inquiry and problem-solving skills. Gifted students may also participate in a number of alternative programs such as early graduation and college/university concurrent enrollment.

The high school gifted education teachers coordinate events relevant to the areas of English, social studies, mathematics, science, world and classical languages, and the arts. This involvement includes differentiating classroom activities to reflect higher-level learning. Monthly meetings are held for gifted students during Quality Resource Time (QRT) to review upcoming activities. Students also receive information about new programs via FCTV, Schoology, and the high school's Web page.

Special Education Support (Educational Support)

Students may receive specially designed instruction in academic skills, social skills, or functional skills from an educational support department teacher in a regular education classroom which may also be a co-taught environment, a resource room, or in the community. Students may also receive academic tutoring and testing in subjects for which they are included by reporting to a support center during QRT or within their respective classes. Through the Life Skills Program, students can become involved in community-based instruction. Transition services are also provided and implemented through a student's Individualized Education Program (IEP).

Fox Chapel Area Online (FCAO)

Students may elect to take a course in an online format through FCAO. A variety of online options are available with a goal of flexible scheduling.

FCAO courses are generally limited to 11th- and 12th-graders unless the student is fully online. FCAO utilizes both Fox Chapel Area teacher-designed courses, as well as externally-designed and internally-customized courses. All courses are facilitated by highly-qualified Fox Chapel Area School District teachers. Additionally, the National Collegiate Athletic Association (NCAA) has approved FCAO courses for use in establishing the initial eligibility certification status of student-athletes.

Scheduling

Students interested in FCAO should meet with their school counselor to discuss their academic performance, unique situations, and their desire to explore an online option to determine if an online course would be academically beneficial.

Students have the option of a fully online schedule or a flex schedule.

Fully Online Schedule: Fully online students continue to enjoy all the benefits of Fox Chapel Area High School, including Fox Chapel Area teachers facilitating their courses, guidance from Fox Chapel Area counselors through high school and the college or career application process, and a Fox Chapel Area diploma, as well as on-campus access to clubs, supports, and social activities.

Flex Schedule: Students may elect to take one or more online courses in addition to in-person classes. Flex schedule options include the following:

- *First Period Flex*: Students arrive to school in time for their second period class, giving them time outside of school to work on their online class(es). Students are responsible for their own transportation.
- *Fourth Period Flex*: Students leave school after their third period class, giving them time outside of school to work on their online class(es). Students are responsible for their own transportation.

- *First Period Flex*: Students take an additional course beyond their four-period daily schedule. Online coursework is completed outside of the school day.

Courses Available

Courses available online are noted in the course listing section of this handbook and listed below. Prerequisites and other information are provided in the course description.

Math: Elements of Math I, III; Algebra I; Integrated Algebra I; Geometry; Geometry Accelerated; Integrated Geometry; Algebra II; Algebra II Accelerated; Algebra III; Integrated Algebra II; Trigonometry; Pre-Calculus; Pre-Calculus Accelerated; and Probability and Statistics

Science: Integrated Science Systems, Biology I, Biology I Accelerated, Ecology, Physical Science, Chemistry I, Chemistry I Accelerated, Environmental Science, Earth and Space, Physics Mechanics, and Physics Accelerated

English: English 9, 10, 11, and 12; English 9 Accelerated, English 10 Accelerated; English 11 Accelerated; and English 12 Accelerated

Social Studies: U.S. History II, U.S. History II Accelerated, World Civilizations III, World Civilizations III Accelerated, U.S. History III, U.S. History III Accelerated, Modern American Society, Modern American Society Accelerated, Psychology, and Sociology and Anthropology

World & Classical Languages: French I, II, III, and IV; Spanish I, II, III, and IV; German I, II, and III; and Latin I, II, and III

Art: Art History

Music: History of Rock and Roll

Business: Business and Personal Law, Career and Financial Essentials, Introduction to Business, Marketing, Investing, and SAT Prep

Physical Education: Discovery Health A and B and Physical Education

Advanced Placement (AP) Courses (available to fully online students only): English 11 (AP Language & Composition), English 12 (AP Literature & Composition), Calculus AB, Statistics, World History, U.S. History, Economics, Psychology, and Human Geography

Other Special Services

Student Assistance Program (SAP)

The Student Assistance Program (SAP) provides intervention methods that deal with conduct, mental health, substance abuse, academic, and/or absentee problems. A core team meets weekly and extended members are included when necessary. Educational groups are also conducted by the SAP members in order to meet the diverse needs of the students.

The benefits and outcomes of the SAP concept can include: improved grades; decrease in the dropout rate; more effective use of school and community resources; improved self-esteem; and improved communication between students, school staff, parents, and the community. The primary outcome of the SAP is to help young people learn how to make healthy lifestyle choices, stay in school, and complete their education.

Intermediate Program (Grades 9 and 10)

The Intermediate Program consists of courses and instructional activities for the 9th and 10th grade students at the high school. The goal of this program is to assist students in successfully transitioning from the middle school and to provide them with the necessary resources to be successful in the high school.

Course Curriculum

The courses for the Intermediate Program are designed to help students build strong academic skills in core subject areas as well as electives of their choice. This includes a rigorous core curriculum with opportunities for acceleration in the core subjects of math, English, social studies, and science. All of the courses also focus on providing challenging opportunities for students while assisting them in becoming more independent and accountable for their own learning. A variety of safety nets are also available for students who need additional instruction such as the Back On Track after-school tutoring program, tutoring during QRT, the Instructional Support (IS) program, and the Student Assistance Program (SAP).

Transition Activities

Students are provided with a variety of activities designed to assist them in transitioning to high school. Some of the activities include freshmen orientation, parent transition night, class meetings, and lessons focusing on executive functioning skills including organization, time management, and study skills. In addition to academic supports and safety nets, students in the Intermediate Program are given opportunities to develop socialization skills through clubs, activities, and sports available to all students.

Senior Program (Grades 11 and 12)

The Senior Program is designed to transition students for postsecondary education and career development. In an effort to provide maximum flexibility in educational opportunities for students at Fox Chapel Area High School, a variety of alternative choices has been developed. Students should discuss these alternatives with their school counselor. The planned alternatives are described below and on page 10.

College in High School (CHS) Courses
College in High School (CHS) courses provide high school students the opportunity to earn college credits and receive a grade on a college/university transcript for courses successfully completed. Students enrolling in CHS courses will be required to pay a fee to the college/university for each course. Additionally, students may elect to take these courses without earning college credit. Fox Chapel Area High School currently has CHS agreements with the University of Pittsburgh, Duquesne University, Seton Hill University, Community College of Beaver County, and Westmoreland County Community College. College in High School credits are available in the following courses: Argument; AP Government and Political Science; AP Economics; Sociology; AP Human Geography; Business Calculus; AP Statistics; AP Calculus AB; Pre-Calculus; Pre-Calculus Accelerated; Calculus; Linear Algebra; French III, IV, and V AP; German III and IV; Spanish III, IV, and V AP; and Entrepreneurship.

College/University Concurrent Enrollment
This is a released time program for students who choose to leave school early to attend a course at a local college or technical school. The chosen course must be a supplement to a student's high school program and cannot be used to satisfy graduation requirements unless special permission is granted by the high school principal.

Credit by Independent Study for Planned Courses
Credit may be awarded to regularly enrolled students who are able to meet planned course requirements through independent study outside the regular classroom. Course requirements are stated in the course curriculum guides and include:

1. student outcomes
2. content and instructional time
3. expected levels of achievement
4. procedure for evaluation

Guidelines for Independent Study

1. Course prerequisites, as stated in this guide, must be completed prior to independent study approval.
2. The student must express an interest in independent study by submitting the required application form to the school counselor by June 1.
3. The request for independent study may be approved after the student consults with the appropriate department chairperson and the sponsoring teacher.
4. The independent study may include the following requirements as determined by the appropriate department: written tests, written final exam, oral tests, oral final exam, projects, required assignments, and demonstration of specific skills
5. The student's parent must approve the application for the independent study plan.
6. Final grade and credit will be recorded on the student's transcript, identified as an independent study grade, and used in calculating the student's QPA.

Professional Experience Program
The Professional Experience Program is designed for students (11th- and 12th-graders) who are interested in gaining real-world exposure to prospective career options. Through this program students will have the opportunity to continue career exploration and planning while earning high school credit. Only students in good standing will be eligible for this program.

Any student who is interested in the Professional Experience Program should speak to their school counselor and ask for an application. The application must be completed and approved by a building principal in the spring in order to enroll in the program the following year. Interested students are responsible for submitting a proposal (no more than one page), along with their completed application, to the school counseling office explaining how the potential professional experience is related to their career goals. This program is limited to one experience each year, unless approved by a high school administrator.

In order to receive credit, students are expected to submit signed weekly logs and complete periodic reflections (one every nine weeks) regarding their professional experience. The school supervisor may also make site visits and/or other correspondences in order to evaluate student progress. Upon satisfactory completion of a professional experience, the student will be awarded either one half or one full credit depending upon the number of hours. The program is pass/fail and is not used in calculation of the QPA.

Work Experience Program

This is an opportunity for students to be excused from school with the purpose of reporting to work. Eleventh and 12th grade students can carry a reduced load of classes as long as they reach the minimum graduation requirement.

Students are dismissed from school at 1 p.m. to attend work in lieu of their fourth period class. Students are required to have a steady five-day a week job under adult supervision during school hours. It is the student's responsibility to secure employment. Employers must be willing to submit reports to the work experience coordinator, sign the work experience contract, and notify the work experience coordinator with any change in work experience employment status.

The work experience coordinator will verify the student's employment and monitor students with visitations at the work site. Students earn a letter grade with the opportunity to gain four quality points. Work experience carries the value of one credit per semester. Students who plan to enroll in the Work Experience Program must get preapproval from their school counselor since this program requires special scheduling. Certain jobs will not be approved for the Work Experience Program. These include, but are not limited to: babysitting, lawn cutting, door-to-door sales, and newspaper delivery. The work experience coordinator will have the discretion to decide what jobs are appropriate.

Students enrolled in this program who lose their job for any reason will be rescheduled for a full load of classes. Students must report any change of employment status to the work experience coordinator. The school also reserves the right to terminate a student's participation in the Work Experience Program at any time if it is judged not to be in the student's best interest to participate.

Community Service Program

The school is conscious of the need for increased citizen participation in community endeavors, and provides an opportunity for juniors and seniors to become more involved. Following the same guidelines as given for the Work Experience Program, students may be released part time from school if they are involved *daily* in some community service activity such as working as a volunteer in a hospital or as a tutor in a program of community action. (It is not possible to list all of the types of activities which may be approved as a community service project during the school year.) The locations for service projects is not limited to the Fox Chapel area.

Students who would like to enroll in the Community Service Program must develop a tentative plan and have it approved by their school counselor. Participants in the Community Service Program shall receive course credit on a pass/fail basis which shall not be included in the QPA. A minimum class load of three full periods is required of students in this program during the semester(s) of enrollment in this plan.

Course Audit

Occasionally a student wants to learn more about a subject area but does not want to officially enroll in the course. It is possible for students to do this if space is available in the class and the teacher gives permission for the audit. While an audited course will carry no grade or credit, all course requirements and regular attendance standards must be met.

Sophomores, juniors and seniors are eligible for this program. Requests to audit a course must be made in the school counseling office prior to the start of the course. Students may not start courses and at some later date decide to audit the courses rather than take grades that might lower their QPA. Also, a student who starts to audit a course may not request to change over and take the course for credit.

Study Abroad

Students have the ability to live and study in another country if they choose to do so. There are many study abroad programs available, and it is up to the student and his/her family to find the program that is the best fit for them. The cost of the program is the responsibility of the student's family. Interested students should plan for this program by meeting with their school counselor to make sure that they are taking the proper credits to ensure that they can graduate on time.

Early Graduation

Students may be able to satisfy graduation requirements by the end of 11th grade or the end of the first semester of the senior year. The academic programs of students contemplating early graduation must be reviewed by their school counselor. Candidates for early graduation must apply by letter to the high school principal in September preceding the date of the requested graduation date.

Midterm graduates will be issued their diplomas in January, and may participate in the regular commencement program in June if they so desire. Midterm graduates are not permitted to participate in spring varsity sports.

Early Admission

Regulations of the State Board of Education indicate that: "Exceptionally able students may leave high school prior to the senior year to attend approved colleges full time at the discretion of the school district. The high school diploma will be awarded to these students upon successful completion of the freshman year of college." Students interested in this program must consult with their school counselor to plan for early admission.

National Career Clusters

When selecting your courses, think about possible career clusters that interest you. Each department and some courses in the course description guide have symbols beside them representing the career cluster that best matches the courses. Please look over the 16 Career Clusters before choosing your courses for next year, so your course selections match your interests and skills.

The National Career Clusters™ Framework is comprised of 16 Career Clusters™ and related Career Pathways. When you explore different career options you will be better prepared for college and careers. You can further explore the National Career Clusters and related Career Pathways at *http://www.careertech.org/career-clusters/glance/clusters-occupations.html*.



- **Agriculture, Food & Natural Resources** – The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.



- **Architecture & Construction** – Careers in designing, planning, managing, building, and maintaining the built environment.



- **Arts, A/V Technology & Communications** – Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.



- **Business Management & Administration** – Careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.



- **Education & Training** – Planning, managing, and providing education and training services, and related learning support services such as administration, teaching/training, administrative support, and professional support services.



- **Finance** – Planning and related services for financial and investment planning, banking, insurance, and business financial management.



- **Government & Public Administration** – Planning and executing government functions at the local, state, and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations.



- **Health Science** – Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.



- **Hospitality & Tourism** – Preparing individuals for employment in career pathways that relate to families and human needs such as restaurant and food/beverage services, lodging, travel and tourism, recreation, amusement, and attractions.



- **Human Services** – Preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.



- **Information Technology** – Building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia, and systems integration services.



- **Law, Public Safety, Corrections & Security** – Planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services.



- **Manufacturing** – Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.



- **Marketing** – Planning, managing, and performing marketing activities to reach organizational objectives such as brand management, professional sales, merchandising, marketing communications, and market research.



- **Science, Technology, Engineering & Mathematics** – Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.



- **Transportation, Distribution & Logistics** – The planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.

National Association of State Directors of Career Technical Education Consortium, Ed. "Pathways to College & Career Readiness: The 16 Career Clusters." Career Technical Education (CTE) Online. 2012. Web.

Elective Courses

GRADE 9 — INTERMEDIATE PROGRAM ELECTIVES (All courses meet five days unless indicated.)

English
Theater Arts (5 or 3)

Social Studies
Perspectives in History: African American History & Culture (2)

Mathematics
Elements of Mathematics I
Math Lab
Integrated Algebra I
Algebra I
Geometry
Geometry Accelerated
Algebra II
Algebra II Accelerated
Pre-Calculus Accelerated
Business Calculus
Calculus (5+2)
Calculus AB Advanced Placement (5+2)
Statistics Advanced Placement

Computer Science
Computer Science Advanced Placement (5+2)
Principles of Computer Science Advanced Placement

World and Classical Languages
French I
French II
French III
Spanish I
Spanish II
Spanish III
German I
German II
German III
Latin I
Latin II
Latin III

Business Education
Introduction to Business
Computer Business Applications (5 or 3)

Technology Education
Introduction to Technology Systems (5 or 3)
Introduction to Materials Processing (5 or 3)
Introduction to Robotic Engineering
Introduction to Graphic Communications Technology (5 or 3)
Introduction to Engineering/Drawing/CAD Technology (5 or 3)
Introduction to Electronics (5 or 3)

Art
Art History (2)
Ceramics and Fibers (5 or 3)
Computer Art (5 or 3)
Drawing and Painting (5 or 3)
Jewelry and Glass (5 or 3)

Media
Video Production (3)
On-Camera Performance (2)
Video Journalism (2)

Music
Unified Musical Explorations (2)
Symphonic Band
Orchestra
Piano Class (3)
Music Technology (5 or 3)
Concert Choir
History of Rock and Roll (2)
World Music (3)



GRADE 10 — INTERMEDIATE PROGRAM ELECTIVES (All courses meet five days unless indicated.)

English
Creative Composition (3)
Public Speaking (3)
Argument (3)
Theater Arts (5 or 3)
Advanced Theater Arts (5 or 3)

Social Studies
Sociology and Anthropology (3 or 5)
Perspectives in History: African American History & Culture (2)
Human Geography Advanced Placement
Introduction to Philosophy (3)
Asian Studies (3)

Mathematics
Elements of Mathematics I
Math Lab
Integrated Algebra I
Algebra I
Integrated Geometry
Geometry
Geometry Accelerated
Integrated Algebra II
Algebra II
Algebra II Accelerated
Trigonometry
Pre-Calculus
Pre-Calculus Accelerated
Business Calculus
Calculus (5+2)
Calculus AB Advanced Placement (5+2)
Calculus BC Advanced Placement
Probability and Statistics
Statistics Advanced Placement

Computer Science
Computer Science Advanced Placement (5+2)
Principles of Computer Science Advanced Placement
Data Structures and Algorithms

World and Classical Languages
French I
French II
French III
French IV
Spanish I
Spanish II
Spanish III
Spanish IV
Spanish V Advanced Placement
German I
German II
German III
German IV
German V Advanced Placement
Latin I
Latin II
Latin III
Latin IV
Latin V Advanced Placement

Business Education
Introduction to Business
Business With Personal Finance Advanced Placement
Computer Business Applications (5 or 3)
Entrepreneurship (3)
Accounting I
Accounting II
Web Page Design (3)

Technology Education
Introduction to Technology Systems (5 or 3)
Advanced Technology Systems (5 or 3)
Introduction to Materials Processing (5 or 3)
Advanced Materials Processing (5 or 3)
Introduction to Robotic Engineering
Robotic Engineering (5 or 3)
Introduction to Graphic Communications Technology (5 or 3)
Advanced Graphic Communications Technology (5 or 3)
Introduction to Engineering/Drawing/CAD Technology (5 or 3)
Engineering & Innovation (5 or 3)
Introduction to Electronics (5 or 3)
Advanced Electronics

Art
Art History (2)
Art History Advanced Placement
Ceramics and Fibers (5 or 3)
Computer Art (5 or 3)
Drawing and Painting (5 or 3)
Jewelry and Glass (5 or 3)
Photography (5 or 3)

Media
Video Production (3)
Advanced Video Production
On-Camera Performance (2)
Video Journalism (2)

Music
Unified Musical Explorations (2)
Symphonic Band
Orchestra
Piano Class (3)
Music Technology (5 or 3)
Concert Choir
Madrigal Singers
History of Rock and Roll (2)
World Music (3)

GRADE 11 — SENIOR PROGRAM ELECTIVES (All courses meet five days unless indicated.)

English
Creative Composition (3)
Public Speaking (3)
Argument (3)
Theater Arts (5 or 3)
Advanced Theater Arts (5 or 3)

Social Studies
Psychology and Human Behavior (3)
Psychology Advanced Placement
Sociology and Anthropology (3 or 5)
Perspectives in History: African American History & Culture (2)
Human Geography Advanced Placement
Introduction to Philosophy (3)
Asian Studies (3)

Mathematics
Algebra I
Integrated Geometry
Geometry
Geometry Accelerated
Integrated Algebra II
Algebra II
Algebra II Accelerated
Trigonometry
Algebra III
Pre-Calculus
Pre-Calculus Accelerated
Business Calculus
Calculus (5+2)
Calculus AB Advanced Placement (5+2)
Calculus BC Advanced Placement
Probability and Statistics
Statistics Advanced Placement
Linear Algebra

Computer Science
Computer Science Advanced Placement (5+2)
Principles of Computer Science Advanced Placement
Data Structures and Algorithms

Science
Biology II Advanced Placement (5+2)
Ecology
Physical Science
Astronomy (if space is available)
Chemistry I
Chemistry I Accelerated (5+2 or 2+5)
Chemistry II Advanced Placement (5+2)
Anatomy and Physiology
Physics Mechanics
Physics Accelerated
Physics C Mechanics Advanced Placement
Physics C Electricity and Magnetism Advanced Placement
Environmental Science
Environmental Science Advanced Placement
FCAO Earth and Space (Online Only)

World and Classical Languages
French I
French II
French III
French IV
French V Advanced Placement
French VI
Spanish I
Spanish II
Spanish III
Spanish IV
Spanish V Advanced Placement
Spanish VI – Conversation
German I
German II
German III
German IV
German V Advanced Placement
German VI
Latin I
Latin II
Latin III
Latin IV
Latin V Advanced Placement

Business Education
FCAO SAT Prep (2) (Online Only)
Computer Business Applications (5 or 3)
Entrepreneurship (3)
Business and Personal Law
Marketing Management
Advertising and Social Media (3)
Business Management (3)
Accounting I
Accounting II
FCAO Investing (3) (Online Only)
Web Page Design (3)
Business Experience Practicum

Family and Consumer Sciences
Foreign and Gourmet Foods
Preschool Laboratory

(Electives continued on next page.)

GRADE 11 — SENIOR PROGRAM ELECTIVES (CONTINUED)

Technology Education
Introduction to Technology Systems (5 or 3)
Advanced Technology Systems (5 or 3)
Introduction to Materials Processing (5 or 3)
Advanced Materials Processing (5 or 3)
Introduction to Robotic Engineering
Robotic Engineering (5 or 3)
Introduction to Graphic Communications Technology (5 or 3)
Advanced Graphic Communications Technology (5 or 3)
Introduction to Engineering/Drawing/CAD Technology (5 or 3)
Engineering & Innovation (5 or 3)
Introduction to Electronics (5 or 3)
Advanced Electronics

Art
Art History (2)
Art History Advanced Placement
Ceramics and Fibers (5 or 3)
Computer Art (5 or 3)
Drawing and Painting (5 or 3)
Portfolio/Pre-AP Studio Art – Drawing and Painting
Studio Art AP – Drawing and Painting
Jewelry and Glass (5 or 3)
Photography (5 or 3)

Media
Video Production (3)
Advanced Video Production
On-Camera Performance (2)
Video Journalism (2)

Music
Unified Musical Explorations (2)
Symphonic Band
Orchestra
Piano Class (3)
Music Technology (5 or 3)
Music Theory Advanced Placement
Concert Choir
Madrigal Singers
History of Rock and Roll (2)
World Music (3)

Physical Education
Adventure Sports (2)
Recreational Fitness and Sports (2)
Team Sports Strategies (2)
Lifeguarding
Introduction to Sport and Exercise Science (3)
AM Physical Education

Vocational/Technical at A.W. Beattie Career Center
All are three-credit courses

Advertising Design
Automotive Collision Technology
Automotive Technology
Carpentry/Building Construction
Cosmetology
Culinary Arts
Dental Careers
Early Childhood Education
Emergency Response Technology
Health and Nursing Sciences
Heating, Ventilating, and Air-Conditioning
Network Engineering & Cyber Security
Pastry Arts
Pharmacy Operations (11th & 12th Grade Only)
Robotics Engineering Technology
Sports Medicine – Rehab Therapy and Exercise Science Technology
Surgical Sciences
Veterinary Sciences Technology

GRADE 12 — SENIOR PROGRAM ELECTIVES (All courses meet five days unless indicated.)

English
Creative Composition (3)
Public Speaking (3)
Argument (3)
Theater Arts (5 or 3)
Advanced Theater Arts (5 or 3)

Social Studies
Modern European History Advanced Placement
Economics Advanced Placement
Government and Politics (U.S.) Advanced Placement
Psychology and Human Behavior (3)
Psychology Advanced Placement
Sociology and Anthropology (3 or 5)
Perspectives in History: African American History & Culture (2)
Human Geography Advanced Placement
Introduction to Philosophy (3)
Asian Studies (3)

Mathematics
Algebra I
Integrated Geometry
Geometry
Geometry Accelerated
Integrated Algebra II
Algebra II
Algebra II Accelerated
Trigonometry
Algebra III
Pre-Calculus
Pre-Calculus Accelerated
Business Calculus
Calculus (5+2)
Calculus AB Advanced Placement (5+2)
Calculus BC Advanced Placement
Probability and Statistics
Statistics Advanced Placement
Linear Algebra

Computer Science
Computer Science Advanced Placement (5+2)
Principles of Computer Science Advanced Placement
Data Structures and Algorithms

Science
Biology II Advanced Placement (5+2)
Ecology
Physical Science
Astronomy
Chemistry I
Chemistry I Accelerated (5+2 or 2+5)
Chemistry II Advanced Placement (5+2)
Anatomy and Physiology
Physics Mechanics
Physics Accelerated
Physics C Mechanics Advanced Placement
Physics C Electricity and Magnetism Advanced Placement
Environmental Science
Environmental Science Advanced Placement
FCAO Earth and Space (Online Only)

World and Classical Languages
French I
French II
French III
French IV
French V Advanced Placement
French VI – Conversation
Spanish I
Spanish II
Spanish III
Spanish IV
Spanish V Advanced Placement
Spanish VI – Conversation
German I
German II
German III
German IV
German V Advanced Placement
German VI
Latin I
Latin II
Latin III
Latin IV
Latin V Advanced Placement

Business Education
FCAO SAT Prep (2) (Online Only)
Computer Business Applications (5 or 3)
Entrepreneurship (3)
Business and Personal Law
Marketing Management
Advertising and Social Media (3)
Business Management (3)
Accounting I
Accounting II
FCAO Investing (3) (Online Only)
Web Page Design (3)
Business Experience Practicum

Family and Consumer Sciences
Foreign and Gourmet Foods
Preschool Laboratory

(Electives continued on next page.)

GRADE 12 — SENIOR PROGRAM ELECTIVES (CONTINUED)

Technology Education
Introduction to Technology Systems (5 or 3)
Advanced Technology Systems (5 or 3)
Introduction to Materials Processing (5 or 3)
Advanced Materials Processing (5 or 3)
Introduction to Robotic Engineering
Robotic Engineering (5 or 3)
Introduction to Graphic Communications Technology (5 or 3)
Advanced Graphic Communications Technology (5 or 3)
Introduction to Engineering/Drawing/CAD Technology (5 or 3)
Engineering & Innovation (5 or 3)
Introduction to Electronics (5 or 3)
Advanced Electronics

Art
Art History (2)
Art History Advanced Placement
Ceramics and Fibers (5 or 3)
Studio Art AP – Ceramics and Fibers
Computer Art (5 or 3)
Studio Art AP – Computer Art
Drawing and Painting (5 or 3)
Portfolio/Pre-AP Studio Art – Drawing and Painting
Studio Art AP – Drawing and Painting
Jewelry and Glass (5 or 3)
Studio Art AP – Jewelry and Glass
Photography (5 or 3)
Studio Art AP – Photography

Media
Video Production (3)
Advanced Video Production
On-Camera Performance (2)
Video Journalism (2)

Music
Unified Musical Explorations (2)
Symphonic Band
Orchestra
Piano Class (3)
Music Technology (5 or 3)
Music Theory Advanced Placement
Concert Choir
Madrigal Singers
History of Rock and Roll (2)
World Music (3)

Physical Education
Adventure Sports (2)
Recreational Fitness and Sports (2)
Team Sports Strategies (2)
Lifeguarding
Introduction to Sport and Exercise Science (3)
AM Physical Education

Vocational/Technical at A.W. Beattie Career Center
All are three-credit courses

Advertising Design
Automotive Collision Technology
Automotive Technology
Carpentry/Building Construction
Cosmetology
Culinary Arts
Dental Careers
Early Childhood Education
Emergency Response Technology
Health and Nursing Sciences
Heating, Ventilating, and Air-Conditioning
Network Engineering & Cyber Security
Pastry Arts
Pharmacy Operations (11th & 12th Grade Only)
Robotics Engineering Technology
Sports Medicine – Rehab Therapy and Exercise Science Technology
Surgical Sciences
Veterinary Sciences Technology

English



TITLE: **ELEMENTS OF LITERACY I**
Credit Value: 1.00
Course Number: 0103
Offered: Semester Block
Periods Per Week: 5
Open to Grade: 9
Prerequisites: Students will be placed in this course as a prerequisite to English 9 based on various data measures.
Description: This course focuses on literacy and writing skills. Explicit reading instruction will be coupled with language arts instruction, with the focus on scaffolding and learning for mastery of individually-leveled concepts. Students placed in this course will be assessed on their readiness and met with appropriate challenges to work toward growth and to prepare for concepts within English 9.

TITLE: **ELEMENTS OF LITERACY II**
Credit Value: .50
Course Number: 0102
Offered: Semester Block
Periods Per Week: 2
Open to Grade: 9
Prerequisites: Students are evaluated for placement in this course based on a range of criteria, including curriculum-based performance data in English 8, benchmark assessment data, and teacher recommendation.
Description: This course is a 2-day/week course focused on literacy and writing skills. Explicit reading instruction will be coupled with language arts instruction, with the focus on scaffolding and learning for mastery of individually-leveled concepts. Students placed in this course will be assessed on their readiness and met with appropriate challenges to work toward growth and to prepare for concepts within English 9.

TITLE: **ELEMENTS OF LITERACY III**
Credit Value: .50
Course Number: 0100
Offered: Semester Block
Periods Per Week: 2
Open to Grades: 10, 11
Prerequisites: Students are evaluated for placement in this course based on a range of criteria, including performance data and teacher recommendation from English 9 or English 10.
Description: This course is a 2-day/week course focused on literacy and writing skills. Explicit reading instruction will be coupled with language arts instruction, with the focus on scaffolding and learning for mastery of individually-leveled concepts. Students placed in this course will be assessed on their readiness and met with appropriate challenges to work toward growth.

TITLE: **ENGLISH 9**
Credit Value: 1.00
Course Number: 1063
Offered: Semester Block/FCAO
Periods Per Week: 5
Open to Grade: 9
Prerequisites: None
Description: English 9 is designed to provide in-depth instruction in reading, writing, speaking, and listening.

English 9 will provide a focused study of Keystone Exam practice strategies. Units of study will involve the reading and discussion of fiction and nonfiction focusing on the standards found in prose, poetry, and drama. The study of basic grammar skills and test preparatory skills for the Keystone Exam will also be highlighted.

TITLE: **ENGLISH 9 ACCELERATED**
Credit Value: 1.00
Course Number: 1083
Offered: Semester Block/FCAO
Periods Per Week: 5
Open to Grade: 9
Prerequisites: A minimum final course grade of 90% in 8th grade language arts and a teacher recommendation
Description: English 9 Accelerated is designed for students who have demonstrated an advanced readiness level and a significant motivation in the areas of reading, writing, speaking, and listening. Students should be prepared for accelerated pacing.

English 9 Accelerated will provide a focused study of Keystone Exam testing strategies. Units of study will involve the reading and discussion of fiction and nonfiction focusing on the standards found in prose, poetry, and drama. The study of basic grammar skills and test preparatory skills for the Keystone Exam will also be highlighted.

At the end of the course, students will participate in the state-mandated English Keystone Exam.

TITLE: **ENGLISH 10** Credit Value: 1.00
Course Number: 1163 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grade: 10
Prerequisites: Successful completion of English 9 or English 9 Accelerated
Description: English 10 is designed to advance student abilities in a focused study of reading, writing, speaking, and listening.

English 10 will provide a focused multigenre study of fiction and nonfiction. Units of study will involve continued investigation of elements of literature, elements of composition (exposition and persuasion), English usage, and vocabulary.

Authentic assessments and other assessment tools including writing, speaking, discussion, projects, quizzes, and tests will be used to assess student readiness and achievement.

TITLE: **ENGLISH 10 ACCELERATED** Credit Value: 1.00
Course Number: 1193 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grade: 10
Prerequisites: Successful completion of English 9 Accelerated with at least an 80%, or English 9 with at least a 90%. Students may also request English 10 Accelerated with a teacher recommendation.
Description: English 10 Accelerated is designed for 10th grade students who have demonstrated an advanced readiness level and a significant desire to deeply study in the areas of reading, writing, speaking, and listening. Students should be prepared for an accelerated pacing of reading and writing assignments along with a significant study of literary elements and styles, elements of grammar and usage, and composition style through instruction in reading, writing, speaking, and listening.

English 10 Accelerated will provide an advanced multigenre study of fiction and nonfiction. Units of study will involve a focused investigation of elements of literature, elements of composition (exposition and persuasion), English usage, and vocabulary.

Authentic and other assessment tools including writing, speaking, discussion, performance, projects, quizzes, and tests will be used to determine student readiness and achievement.

TITLE: **ENGLISH 11** Credit Value: 1.00
Course Number: 1263 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grade: 11
Prerequisites: Successful completion of English 10 or English 10 Accelerated
Description: English 11 is designed to advance student abilities as readers and writers through an exploration of American literature and popular culture with a focus on the 20th century. Students will be expected to read both fiction (short stories, novels, poetry) and nonfiction independently and produce a variety of writings, including journals, single and multiparagraph responses to readings, and research-based writings. A focused study of vocabulary and grammar will also be integrated into the course.

Student grades will be derived from student responses to the course readings, as well as writings, projects, tests, and quizzes.

TITLE: **ENGLISH 11 ACCELERATED** Credit Value: 1.00
Course Number: 1283 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grade: 11
Prerequisites: Successful completion of English 10 Accelerated with at least an 80%, or English 10 with at least a 90%. Students may also request English 11 Accelerated with a teacher recommendation.
Description: This is a course designed for highly motivated students who are willing to complete more than just the minimum requirements. The course is a program in American literature. It features units on the Colonial Era, the Civil War Era, the Jazz Age, the Depression, and the Modern Era – all of which are presented in accordance with themes designed to complement the texts and stimulate metaphorical thinking. Students will also study usage and apply it to the numerous compositions based on literary and personal topics. The composition assignments focus on developing multiparagraph analytical topics with the added purpose of preparing students for courses in higher education. Grades are based on usage tests, compositions, comprehension of American literature, and class participation.

TITLE: **ENGLISH 11 ADVANCED PLACEMENT LANGUAGE & COMPOSITION** Credit Value: 1.00
Course Number: 1293 Offered: Semester Block
Periods Per Week: 5 Open to Grade: 11
Prerequisites: Successful completion of English 10 Accelerated with at least an 80%, or English 10 with at least a 90%. Students may also request English 11 Advanced Placement with a teacher recommendation.
Description: This course is the equivalent of a college-level freshman composition course. Therefore, the course is conducted and student work is graded in much the same way as a college course. Students must accept responsibility for completing numerous writing assignments on time and in a manner that exceeds what might be expected of a high school junior English student.

(Course description continued on next page.)

There is a summer reading assignment of three readings posted on the Fox Chapel Area High School website that students should be prepared for when the semester starts next year.

The course concentrates on literary problems as they influence essay writing. Essays are analytical and persuasive and focus on the technical functions of point of view, setting, diction, syntax, structure, major ideas, imagery, and characterization. The reading selections are taken mostly from American literature. Students also conduct an extensive study of usage, language, and revision techniques. Grades are based on numerous compositions, journals, objective usage tests, and quizzes on literature and vocabulary.

Students may choose to take the national standardized AP test in May.

The FCAO version of this course is only available to full-time online students.

TITLE: **ENGLISH 12** Credit Value: 1.00
Course Number: 1363 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Successful completion of English 11, English 11 Accelerated, or English 11 Advanced Placement
Description: English 12 is a course focusing on perspectives of the hero through British and contemporary literature. Students will understand that literature reflects the values and ideals of a particular culture, and heroes epitomize these values. The archetypes of the epic and tragic hero will be studied and applied to life today. Core readings include *Beowulf*, *Grendel*, *Macbeth*, *The Natural*, *The Princess Bride*, and *Frankenstein*. Students are evaluated using a variety of formative and summative assessments including writing journals, vocabulary and reading comprehension quizzes, tests, essays, projects, and other performance-based tasks. In addition, students are required to complete small group research and a comprehensive final exam.

TITLE: **ENGLISH 12 ACCELERATED** Credit Value: 1.00
Course Number: 1383 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Successful completion of English 11 Advanced Placement with at least a 75%, English 11 Accelerated with at least an 80%, or English 11 with at least a 90%. Students may also request English 12 Accelerated with a teacher recommendation.
Description: English 12 Accelerated is a course designed for students seeking a more in-depth challenge in English during their senior year in preparation for college-level reading and writing. Reading selections come primarily from British literature and focus on the theme of "Why literature matters." Core readings include *Beowulf*, *Grendel*, *The Canterbury Tales*, *Macbeth*, *Othello*, *Gulliver's Travels*, and the Romantic Poets. In addition, supplemental selections of poetry, short stories, and informational texts (both classic and contemporary) complement each unit. Students are evaluated using a variety of assessments including quizzes, tests, essays, projects, and other performance tasks. There is also a comprehensive final project.

TITLE: **ENGLISH 12 ACCELERATED – BRITISH LITERATURE & SPORTS & ADVENTURE LITERATURE** Credit Value: 1.00
Course Number: 1386 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Successful completion of English 11 Advanced Placement with at least a 75%, English 11 Accelerated with at least an 80%, or English 11 with at least a 90%. Students may also request English 12 Accelerated – British Literature & Sports & Adventure Literature with a teacher recommendation.
Description: British Literature and Sports and Adventure Literature is a course focusing on perspectives of the hero through British and contemporary literature. Students will read and analyze various genres of literature including fiction, nonfiction, and poetry with connections to sports and adventure themes and a focus on the concept of the hero. In their study, students will investigate the major themes and tenets of sports and adventure literature while following a British survey-style curriculum. Small-group research and presentations, literature circle discussion groups, and writer of the week assignments allow students the opportunity to share and evaluate projects and submissions. Core readings include *Beowulf*, *Macbeth*, *The Natural*, *A Confederacy of Dunces*, and *Friday Night Lights*. Students will be required to demonstrate various types of writing, including but not limited to research and writing for sports.

TITLE: **ENGLISH 12 ACCELERATED – WORLD MYTHOLOGY** Credit Value: 1.00
Course Number: 1387 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Successful completion of English 11 Advanced Placement with at least a 75%, English 11 Accelerated with at least an 80%, or English 11 with at least a 90%. Students may also request English 12 Accelerated – World Mythology with a teacher recommendation.
Description: This course will provide an overview of world mythology and its function within the culture. This course will offer a synopsis of types of myths and common mythological structures, motifs, and archetypes. Ancient myths and current mythologies from around the world will be explored. Students will learn Egyptian, Mesopotamian, Greek, Native American, and Quiché Mayan creation mythology, as well as explore Greek and Norse hero mythology. Students will investigate and reflect upon the ways in which mythologies of all cultures and time periods have affected history, literature, and modern life.

TITLE: **ENGLISH 12 ACCELERATED – BRITISH LITERATURE & MODERN FILM STUDIES** Credit Value: 1.00
Course Number: 1389 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Successful completion of English 11 Advanced Placement with at least a 75%, English 11 Accelerated with at least an 80%, or English 11 with at least a 90%. Students may also request English 12 Accelerated – British Literature & Modern Film Studies with a teacher recommendation.
Description: This course will explore film as a viable literary genre worthy of academic study. Through a variety of films and media, students will recognize and analyze how film elements, individually and in concert, impact a film's meaning. Students will also learn how to apply literary critical theory and film theory in an effort to turn students from passive receptors to active and engaged critical viewers. In addition, students will learn canonical British literary works such as *Beowulf*, *Macbeth*, and various *Canterbury Tales*. Students will also analyze some film adaptations of these texts. Additionally, they will explore how film has continually evolved, as well as how each is a representation of the societal influences in which they were created, and in turn, how they influence the world.

TITLE: **ENGLISH 12 ADVANCED PLACEMENT LITERATURE & COMPOSITION** Credit Value: 1.00
Course Number: 1393 Offered: Semester Block
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Successful completion of English 11 Advanced Placement with at least a 75%, English 11 Accelerated with at least an 80%, or English 11 with at least a 90%. Students may also request English 12 Advanced Placement Literature & Composition with a teacher recommendation.
Description: Students will engage in critical discussion and analysis of literary forms including novels, poetry, short stories, plays, and essays. Throughout the semester, students will study literary works from the perspective of genre and critical theory, while focusing on how literary works exhibit and illustrate a variety of dynamic themes. *Literature and Composition: Reading, Writing, Thinking* by Carol Jago, Renée H. Shea, Lawrence Scanlon, and Robin Dissin Aufses will serve as the course's main text, with other readings and media supplementing the curriculum's richness. The primary structure of the class is a seminar format where students assume responsibility for discussion. Evaluation is based on in-class and take-home essays, comprehensive and cumulative exams, and frequent quizzes. Selections of literary works will vary throughout the semester. Honing one's speaking and writing voice in poetry and prose is highlighted via poetry memorization, dramatic performances, storytellers, and oral presentations. Reading and writing experiences will be intensive, comprehensive, and cumulative in discussion and evaluation modes. Students should expect to dedicate one to two hours nightly in preparation for and participation in this college-formatted course. Students may choose to take the national standardized AP test in May.

The FCAO version of this course is only available to full-time online students.

TITLE: **CREATIVE COMPOSITION** Credit Value: .50
Course Number: 1423 Offered: Semester Block
Periods Per Week: 3 Open to Grades: 10, 11, 12
Prerequisites: Successful completion of English 9
Description: Creative Composition is an introductory creative writing course. This course is intended to step outside of the standard expository essay and to investigate other styles of writing, such as poetry, memoir, fiction, and slam poetry. The course is open to both college- and noncollege-bound students. Students' writing styles will be challenged by constant journal writing, revising, critiquing, and risk-taking. Students will frequently share their work, both in the classroom and through outside contests and publications.

TITLE: **PUBLIC SPEAKING** Credit Value: .50
Course Number: 1443 Offered: Semester Block
Periods Per Week: 3 Open to Grades: 10, 11, 12
Prerequisites: Successful completion of English 9
Description: Public Speaking is a one-semester course designed for students interested in improving their verbal communication skills. The course begins by teaching voice control and tone production skills accompanied by effective body language. These skills are practiced through a variety of performance activities and group discussions before they are brought together in the first formal oral interpretation presentation. Students develop their speech-writing skills through a progression of speeches that develop in intensity. From demonstrative and informative, to persuasive and debate, students will research, develop, outline, and deliver a variety of formal speeches. Related skills consisting of writing memorable introductions and conclusions, organizing

(Course description continued on next page.)

information, engaging the audience, writing effective transitions, creating powerful visual aids, employing persuasive appeals, and recognizing logical fallacies will be included. Students will receive peer and instructor feedback for every speech and will review their own performance on videotape. From this feedback, students will complete thoughtful reflections focusing on strengths and weaknesses in preparation for the next assignment.

TITLE: **ARGUMENT** Credit Value: .50
Course Number: 1445 Offered: Semester Block
Periods Per Week: 3 Open to Grades: 10, 11, 12
Prerequisites: Completion of English 9 with a 74% or higher. Please be aware that public speaking is a component of the course and one of the debates will be recorded on video and then could be sent to the University of Pittsburgh for an evaluation.
Description: The College in High School (CHS) Argument course is a college seminar class with an emphasis on reading, writing, active argument participation, and class discussion. This course teaches students to recognize, explain, research, construct, present, and critique arguments. Assignments invite students to create their own research-based arguments, express them capably to peers and instructors, eloquently refute competing arguments, and judge the soundness of arguments made by others. A survey of key concepts in argumentation theory will provide background for students to develop their argument skills in a variety of both oral and written activities that feature lively intellectual interchange.

Students have an option to register with the University of Pittsburgh to earn credit through its College in High School (CHS) program.

TITLE: **THEATER ARTS** Credit Value: 1.00 or .50
Course Number: 1453 or 1454 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: This course offers an opportunity for students to perform, create, and study dramatic works. The class is designed to develop personal growth in observation skills, self-confidence, trust, imagination, and concentration. Units include ensemble-building, acting skills, playwriting, theater history, critical response, design, costumes and set, and scene production. Students' expressive voices are validated through diverse assignments and activities. Emphasis is geared to provide a comfortable working environment with little pressure to perform for outside audiences.

TITLE: **ADVANCED THEATER ARTS** Credit Value: 1.00 or .50
Course Number: 1463 or 1464 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 10, 11, 12
Prerequisites: Successful completion of Theater Arts or teacher recommendation
Description: This course offers competent students an arena in which to polish theater skills, express their personal voices through drama, and to develop artistic discipline. The format includes greater opportunity to perform for outside audiences. Students engage in acting, directing, writing, creative movement, voice for the stage, classical and contemporary monologues, and theater history.

TITLE: **ENGLISH LANGUAGE DEVELOPMENT (ELD)** Credit Value: 1.00
Course Number: 1471, 1472 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites for All Levels: For students whose dominant language is not English and who have appropriate recommendations and English language proficiency test scores
Description: English Language Development (ELD) helps students improve their English skills in listening, speaking, reading, and writing. In this class, students will practice using English for real communication and academic success. They will learn new vocabulary, grammar, and reading strategies to understand and express ideas clearly. Students will also strengthen their reading skills to better understand the academic language used in all subjects. Throughout the course, they explore how English works, gaining confidence to use the language in all their classes and everyday life.

This course is correlated with the Pennsylvania Academic Standards for English Language Arts and the Pennsylvania Standards for English Language Development modeled after WIDA's English Language Proficiency Standards for English Learners.

Teacher recommendations for the 2026-2027 school year may also be based on a Learner Attributes Inventory, a curriculum-embedded skills assessment, and other data as deemed appropriate.

Social Studies

TITLE: **UNITED STATES HISTORY II**
Credit Value: 1.00
Course Number: 2063
Offered: SemesterBlock/FCAO
Periods Per Week: 5
Open to Grade: 9
Prerequisites: None
Description: This course covers United States history from 1865-1945. There are four main curricular units/topics in the first half of the course and they include the Reconstruction Era, Industrialization and the Gilded Age, the Closing of the West, the Progressive Era, and the emergence of the United States as a world power. The second half of the course will include the 1920s, the Great Depression, the New Deal, and World War II.

Students will be required to supplement their learning through selected readings, writing assignments, discussion activities, and assigned projects. Students will be required to take the Pennsylvania state-mandated Civics Exam that includes questions on the nature, purpose, principles, and structure of the United States constitutional democracy.

This course meets the 9th grade social studies requirement.

TITLE: **UNITED STATES HISTORY II ACCELERATED**
Credit Value: 1.00
Course Number: 2083
Offered: SemesterBlock/FCAO
Periods Per Week: 5
Open to Grade: 9
Prerequisites: A minimum final course grade of 90% in 8th grade social studies and a teacher recommendation
Description: This rigorous course covers United States history from 1865-1945. The course is divided into four main curricular units that include such topics as the Reconstruction Era, Industrialization and the Gilded age, the Closing of the West, the Progressive Era, the emergence of the United States as a world power, life in the 1920s, the Great Depression, the New Deal, and World War II.

Students will be required to supplement their learning through selected readings, primary documents, writing assignments, discussion activities, and assigned projects.

United States History II Accelerated is NOT a requirement for an AP social studies class; however, it is designed to better prepare students for AP-level classes in the future through its focus on particular AP-level skills and implementation of the AP writing rubric for essay exams. This accelerated course requires an understanding that is deeper and more complex than the core curriculum and students are expected to respond at an advanced level, work at a faster pace, hone research skills, and spend more time outside of class on preparation. At least an hour of reading is expected per night, along with any other preparatory activities. Students will be required to take the Pennsylvania state-mandated Civics Exam that includes questions on the nature, purpose, principles, and structure of the United States constitutional democracy, and the rights and responsibilities of citizenship.

This course meets the 9th grade social studies requirement.

TITLE: **WORLD CIVILIZATIONS III**
Credit Value: 1.00
Course Number: 2163
Offered: SemesterBlock/FCAO
Periods Per Week: 5
Open to Grade: 10
Prerequisites: Successful completion of United States History II
Description: World Civilizations III is designed to explore world history from the 1700s through modern day. Each unit will focus around essential questions to assist students in understanding how changes throughout history have impacted the world they live in. The course content will be presented from multiple perspectives to assist in seeing global relationships. Many strategies such as Web quests, role-plays, debates, and projects are used to engage students. The ultimate goal is for students to make connections between past events and their world today.

This course meets the 10th grade social studies requirement.

TITLE: **WORLD CIVILIZATIONS III ACCELERATED** Credit Value: 1.00
Course Number: 2183 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grade: 10
Prerequisites: Students must have a minimum of 83% in U.S. History II Accelerated or at least a 90% and a teacher recommendation in U.S. History II.
Description: World Civilizations III Accelerated is designed to explore world history from the 1700s through modern day. The purpose of this course is to develop a greater understanding of the evolution of global relationships and interactions between the world's major societies. Each unit will focus around essential questions to assist students in making comparisons between cultures and in tracing global trends. The course content will be presented from multiple perspectives to assist in seeing global relationships. For example, students will learn about revolutionary ideas from major societies and apply them to the global trends that follow. Many strategies such as Web quests, role-plays, debates, and projects are used to engage students. The ultimate goal is for students to think historically, construct historical arguments, and analyze data from multiple viewpoints in an active classroom.

This course requires an understanding that is deeper and more complex than the core curriculum and students are expected to respond at an advanced level, work at a faster pace, and spend more time on preparation. Additional outside study, such as homework or projects, will also be required.

This course meets the 10th grade social studies requirement.

TITLE: **WORLD HISTORY ADVANCED PLACEMENT** Credit Value: 1.00
Course Number: 2193 Offered: Semester Block
Periods Per Week: 5 Open to Grade: 10
Prerequisites: A minimum final course grade of at least an 83% in U.S. History II Accelerated or completion of U.S. History II with at least a 90% and a teacher recommendation
Description: This course is designed for the very disciplined 10th grader who wants a challenge. World History Advanced Placement simulates the demands of a freshmen level college survey course and prepares students for success on the AP exam offered each May. Students may receive college credit through successful exam scores.

This course will cover the time period of the Classical Era to the present. Students will explore how the major world societies have influenced each other throughout time. Students will analyze major global trends and themes including analyzing interactions between major societies, comparing and contrasting world religions, discussing the impact of technology on people and the environment, comparing systems of social structure and gender structure, analyzing the arts and intellectual developments, and tracing the development of forms of governments. Students will explore these topics through simulations, role plays, writing activities, debates, cultural activities, and seminars. In the end, the goal is for students to think historically, construct historical arguments, to handle diversity of interpretations, to assess issues of change and continuity over time, and to analyze data within an historical viewpoint. Students should be prepared for at least an hour or more of homework each night (approximately 10 to 15 pages of reading per night).

Please Note: There is a summer reading assignment.

This course meets the 10th grade social studies requirement.

The FCAO version of this course is only available to full-time online students.

TITLE: **UNITED STATES HISTORY III** Credit Value: 1.00
Course Number: 2263 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grade: 11
Prerequisites: Successful completion of 10th grade History
Description: This course will cover 1945 to the present day. Units have been designed thematically with emphasis on key topics during each time period. Topics will range from Cold War politics, to domestic counter culture, to foreign policy. Students will be required to supplement their learning activities through selected reading, library work, and assigned projects. United States History is required for graduation.

This course meets the 11th grade social studies requirement.

TITLE: **UNITED STATES HISTORY III ACCELERATED**   
Credit Value: 1.00
Course Number: 2283
Offered: Semester Block/FCAO
Periods Per Week: 5
Open to Grade: 11
Prerequisites: Students must have earned at least an 83% in World Civilizations III Accelerated or World History AP or at least a 90% in World Civilizations III and a teacher recommendation
Description: This course is designed for students with a high interest in U.S. history. The class will deal with domestic and foreign policy issues in American society since the end of World War II. This course is weighted and fulfills the 11th grade United States History requirement for graduation. Units are designed thematically, with an emphasis on key topics and important issues, including the development of the Cold War, presidential elections, civil rights, the arms race, the Vietnam War, 1960s counter culture, and the conservative revolution of the 1980s. The class uses a college-level textbook on post-World War II American domestic and foreign issues, which is part of the required reading, so a high level of reading comprehension and a commitment to nightly reading is essential for success. Students will use the text, primary and secondary sources, and period literature and songs, including a novel, to explore and discuss the major U.S. trends and developments that have shaped modern society. There will be a focus on analytical reading analysis. For the writing component, numerous writing skills are enhanced and developed.

This course meets the 11th grade social studies requirement.

TITLE: **UNITED STATES HISTORY ADVANCED PLACEMENT** 
Credit Value: 1.00
Course Number: 2293
Offered: Semester Block
Periods Per Week: 5
Open to Grade: 11
Prerequisites: Students must have at least an 83% in World Civilizations III Accelerated or World History AP or at least a 90% in World Civilizations III and a teacher recommendation
Description: This comprehensive course, taught on the collegiate level, is a highly concentrated placement study of American history. Classes are conducted through a seminar format with an average of one hour of reading per night. Note-taking is required. Emphasis on essay writing is stressed throughout the course. The course covers the political, military, economic, social, cultural, and intellectual history of the United States. Compared with other United States history courses, this course is, by design, much more demanding. Students are expected to read and write more; to analyze historical documents and material; and to synthesize their ideas and to evaluate those of others. Students should be able to make judgements about historical data or ideas based upon sound evidence and evaluation. This course meets the requirements for preparation for the AP exam.

This course meets the 11th grade social studies requirement.

The FCAO version of this course is only available to full-time online students.

TITLE: **MODERN AMERICAN SOCIETY**
Credit Value: 1.00
Course Number: 2363
Offered: Semester Block/FCAO
Periods Per Week: 5
Open to Grade: 12
Prerequisites: Successful completion of United States History
Description: The course is divided into two parts – political science and economics. This course will review the structure of government while emphasizing the issues that government affects. The economics portion will emphasize the basic concepts of economics and practical information every citizen should know. Grades will be determined by the percentage average of scores from quizzes, tests, oral and written presentations, projects, and demonstrations.

This course meets the 12th grade social studies requirement for graduation.

TITLE: **MODERN AMERICAN SOCIETY ACCELERATED**
Credit Value: 1.00
Course Number: 2383
Offered: Semester Block/FCAO
Periods Per Week: 5
Open to Grade: 12
Prerequisites: Modern American Society Accelerated students must have had a final grade of at least an 83% in United States History
Description: This course is designed for highly motivated social studies students. The purpose of this course is to study the political, social, and economic institutions that shape life in America today. Students will be expected to study from a number of source materials and to participate in in-depth discussions. Each student will be responsible for all reading assignments. Every student will be required to make an oral presentation. Tests, quizzes, and presentations will be the basis of grading.

This course meets the 12th grade social studies requirement for graduation.

TITLE: **MODERN EUROPEAN HISTORY ADVANCED PLACEMENT** Credit Value: 1.00
Course Number: 2393 Offered: Semester Block
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Students must have a minimum of 83% in U.S. History III Accelerated or U.S. History AP or a 90% or above in U.S. History III and a teacher recommendation.
Description: This course, taught on a college-level, is a highly concentrated study of the Renaissance to contemporary Europe. The course will focus on six major trends that have shaped modern Europe. These are: the rise and decline of great powers; reform vs. revolution; changes in social structure; changes in the family; the issue of individualism; and changes in culture, science, and the arts. There is an emphasis on the arts as a mirror through which to view the past and present. The class is primarily conducted in a seminar fashion with student and teacher discussion based on nightly readings (text and primary sources). There is a strong emphasis on essay writing and critical thinking activities. Students are expected to participate in a variety of activities, including debates, simulations, class discussions, and projects. This course meets the 12th grade social studies requirement for graduation and will serve as preparation for the AP Exam.

Students also have the option to register with Duquesne University to earn college credit through its College in High School (CHS) program.

The FCAO version of this course is only available to full-time online students.

TITLE: **ECONOMICS ADVANCED PLACEMENT**  Credit Value: 1.00
Course Number: 2493 Offered: Semester Block
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Students must have at least an 83% in U.S. History III Accelerated or U.S. History AP or at least a 90% in U.S. History III and a teacher recommendation. Students must have high motivation for the study of economics and successful completion of Algebra II. Students should feel confident reading graphs and solving for an unknown.
Description: Economics Advanced Placement is a course that is intended for students who wish to complete studies in high school equivalent to a one-semester college introductory course in microeconomics and a one-semester introductory course in macroeconomics. (Microeconomics is a study of the principles of economics that apply to the functions of individual decision-makers, both consumers and producers, within the larger economic system. Macroeconomics studies the principles of economics that apply to an economic system as a whole.)

NOTE: The AP program offers two examinations in economics: one in microeconomics and one in macroeconomics. Students may take one or both examinations in a given year. A separate grade is reported for each.

This course may be taken in lieu of the required senior social studies course. This course meets the 12th grade social studies requirement.

The FCAO version of this course is only available to full-time online students.

TITLE: **GOVERNMENT AND POLITICS (U.S.) ADVANCED PLACEMENT**  Credit Value: 1.00
Course Number: 2593 Offered: Semester Block
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Students must have at least an 83% in U.S. History AP, an 85% in U.S. History III Accelerated, or at least a 93% in U.S. History III and a teacher recommendation
Description: Government and Politics (U.S.) Advanced Placement will be taught on a college-level. The course is designed for highly motivated students who want to investigate the power and workings of the U.S. government and political parties. The course includes a study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students will be expected to study from a number of source materials, participate in discussions about past and current political issues, write short essays, and complete nightly readings. This course meets the 12th grade social studies requirement for graduation and will serve as preparation for the AP exam in U.S. Government and Politics. Students also have an option to register with the University of Pittsburgh to earn credit through Pitt's College in High School (CHS) program.

This course meets the 12th grade social studies requirement for graduation.

The FCAO version of this course is only available to full-time online students.

TITLE: **PSYCHOLOGY AND HUMAN BEHAVIOR**  Credit Value: .50
Course Number: 2603 or 20603 (Online) Offered: Semester Block/FCAO
Periods Per Week: 3 Open to Grades: 11, 12
Prerequisites: None
Description: Psychology and Human Behavior is an overview of several schools of psychology, as well as an introduction to the theories of several well-known psychologists. The purpose of this course is to provide an atmosphere for discussing and understanding human nature, emotions, and motivation. The focus is to understand human behavior on a general introductory basis. Personality, learning theories, consciousness, and the senses are just a few of the topics that will be covered.

Grades will be determined by tests, quizzes, homework assignments, readings, and projects.

This is an elective course and does not meet the social studies requirement for graduation.

TITLE: **PSYCHOLOGY ADVANCED PLACEMENT** 
Credit Value: 1.00
Course Number: 2613
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 11, 12
Prerequisites: Successful completion of Psychology and Human Behavior with at least an 83% average
Description: The purpose of the Advanced Placement course in Psychology is to introduce students to the systematic and scientific study of behavior and mental processes of human beings and animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

Psychology AP is the equivalent of a college-level introductory course. This is a rigorous and demanding course, intended to provide the scope and level of academic accomplishment expected in a college/university setting. The curriculum for this course places a heavy emphasis on essential readings, writing assignments, independent projects, and frequent tests intended to prepare students for the AP exam.

Students also have the option to register with Duquesne University to earn college credit through its College in High School (CHS) program.

This is an elective course and does not meet the social studies requirement for graduation.

The FCAO version of this course is only available to full-time online students.

TITLE: **SOCIOLOGY AND ANTHROPOLOGY** 
Credit Value: .50 or 1.00
Course Number: 2623 or 2624
Offered: Semester Block/FCAO
Periods Per Week: 3 or 5
Open to Grades: 10, 11, 12
Prerequisites: None
Description: Sociology and Anthropology is a course that deals with people: why they think, act, behave, and believe the way they do. At birth, people have no idea of race, gender, age, ethics, social class, or how people "ought" to be, yet people do learn such things as part of growing up, and different views toward these and other issues cause a great deal of controversy in society. The purpose and focus of this course is to study how these issues affect society and individuals, how they are dealt with in different societies, and why so many of these topics are controversial. Topics include culture, socialization, deviance and social control, social class, race, ethnicity, gender, education, collective behavior, and social movements and sociological research. A key component of the course is an independent sociological research project with interviews, surveys, and data analysis. Class participation and discussion, student projects, self-evaluation and writing assignments, simulations, and role playing are the basis for class grades.

Students in the 5-day course may register with Seton Hill Univ. to earn college credit through its College in High School (CHS) program.

This is an elective course and does not meet the social studies requirement for graduation.

TITLE: **PERSPECTIVES IN HISTORY: AFRICAN AMERICAN HISTORY AND CULTURE**
Credit Value: .50
Course Number: 2626
Offered: Semester Block
Periods Per Week: 2
Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: The goal of this course is to provide a historical snapshot and broad survey of the African American experience in the United States.

The course begins with an introduction to the history and culture of Africa before 1600 and continues through the colonial period of American history through the civil rights movement and to contemporary issues today, from the perspective and experience of African Americans. The course will examine the impact that African Americans have had, and continue to have, on American society, the economy, and the government. The course will take varied perspectives as the lens through which students can understand and expand their understanding of what it means to be an American, as well as grow their knowledge and appreciation for American society and ideals.

This is an elective course and does not meet the social studies requirement for graduation.

TITLE: **HUMAN GEOGRAPHY ADVANCED PLACEMENT**
Credit Value: 1.00
Course Number: 2633
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 10, 11, 12
Prerequisites: A minimum final course grade of at least 83% in U.S. History II Accelerated, or at least a 90% in U.S. History II
Description: "The study of how people make places, how we organize space and society, how we interact with each other in places and across space, and how we make sense of others and ourselves in our locality, region, and world." – DeBlig

Students will have an in-depth learning experience about: a.) human development, culture, and society advancement; b.) societal progression through land use, natural resource allocation, environment conditions, and climate factors; and c.) societal sustainability through agriculture, industry, culture, migration, technology, economics, and politics.

Students may register with Westmoreland County Community College to earn college credit through its College in High School (CHS) program.

This is an elective course and does not meet the social studies requirement for graduation.

The FCAO version of this course is only available to full-time online students.

TITLE: **INTRODUCTION TO PHILOSOPHY** Credit Value: .50
Course Number: 2643 Offered: Semester Block
Periods Per Week: 3 Open to Grades: 10, 11, 12
Prerequisites: None
Description: Have you ever wondered if you have free will? If life has a meaning? What does it mean to be a person? So have philosophers! Believe it or not, humanity has continually attempted to answer important philosophical questions. Come join the discussion. If your future requires thinking or talking, Introduction to Philosophy will help you prepare.

This course is an introduction to philosophy through topics found in classical philosophical writings, such as the mind and body, freedom and determinism, nature of truth and knowledge, and right and wrong. Through the critical analysis of many famous thinkers, students will gain insight into their own thinking patterns. Students will explore philosophical topics using self-reflection, nightly readings, discussions, and projects.

This is an elective course and does not meet the social studies requirement for graduation.

TITLE: **ASIAN STUDIES** Credit Value: .50
Course Number: 2645 Offered: Semester Block
Periods Per Week: 3 Open to Grades: 10, 11, 12
Prerequisites: None
Description: Asian Studies is a multidisciplinary survey course of modern Asia with an emphasis on East, South, and Southeast Asia. This course will examine the historical social, economic, political, and cultural evolution and emergence of China, India, Japan, Korea, and Vietnam. Students will investigate how such factors as religion, warfare (domestic and foreign), food and cuisine, arts, literature, trade, pop-culture, and economics shaped and continue to shape these nations as significant players in world affairs into the 21st century. Materials will be a combination of texts, biographies, nonfiction, articles, and documentaries. Evaluation criteria includes homework assignments, projects, readings, discussions, and presentations.

This is an elective course and does not meet the social studies requirement for graduation.

Teacher recommendations for the 2026-2027 school year may also be based on a Learner Attributes Inventory, a curriculum-embedded skills assessment, and other data as deemed appropriate.

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Social Studies Scholar Certificate

The Fox Chapel Area High School Social Studies Scholar Certificate rewards and acknowledges high school students who have been successful within the social studies curriculum. Students are able to earn the Social Studies Scholar Certificate by successfully completing required courses, taking a variety of electives in social studies, and maintaining a set grade point average within the social studies department. The knowledge and experience gained when earning the Social Studies Scholar Certificate are applicable to many professions, such as working in government, the law, international relations and business, medical fields, and human services.

Students may submit an application when they meet the scholar requirement, and only need to submit a new transcript to earn honors or above.

Qualifications
To be considered, applicants must meet the following criteria:
Scholar
- Complete 7 or more courses in the social studies department.
- Maintain a “B” (83%) weighted grade average in all social studies courses.
- Maintain a 3.0 weighted QPA.

Scholar with Honors
- Complete 8 or more courses in the social studies department.
- Maintain a “B” (83%) weighted grade average in all social studies courses.
- Maintain a 3.0 weighted QPA.

Scholar with Distinction
- Complete 9 or more courses in the social studies department.
- Maintain a “B” (83%) weighted grade average in all social studies courses.
- Maintain a 3.0 weighted QPA.

Scholar with Excellence
- Complete 10 or more courses in the social studies department.
- Maintain a “B” (83%) weighted grade average in all social studies courses.
- Maintain a 3.0 weighted QPA.

Math

TITLE: **ELEMENTS OF MATHEMATICS I** Credit Value: 1.00
Course Number: 3013 Offered:SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 9, 10
Prerequisites: None
Description: This five-day a week course is a prerequisite for Integrated Algebra I and is to be taken with Integrated Algebra I. This course is for students who have not demonstrated adequate levels of proficiency on the 8th grade Pennsylvania System of School Assessment (PSSA), curriculum-based assessments, and/or standards-based predictive assessments. In addition to computer software, other activities include group work, presentations, explorations, and drill and practice. The course content focuses on numbers and operations, linear equations and inequalities, functions, patterns, proportional reasoning, multiple representations, and other algebraic concepts.

Grades will be determined by both formative and summative assessments such as quizzes and tests, and calculator and computer work.

TITLE: **MATH LAB** Credit Value: .50
Course Number: 3023 Offered: Semester Block
Periods Per Week: 2 Open to Grades: 9, 10
Prerequisites: At least an 83% or higher in Math 8 and a recommendation of current math teacher
Description: Math Lab is a course designed to run concurrently with Algebra I. This course will take on the initiative of promoting critical thinking and problem-solving skills. Emphasis will be placed on the student's ability to organize his/her thought process and develop strategies for finding solutions to authentic real-world problems. Collaboration in the learning community will be essential to the growth of each individual student and success in the Math Lab. Engaging in discussions to compare and justify different strategies will be key to showing true understanding and seeing the diverse ways for solving problems algebraically.

Activities include discovery-based tasks, hands-on experiments, and computer-simulated experiments to gain a deeper understanding of linear algebra.

TITLE: **ELEMENTS OF MATHEMATICS III** Credit Value: .50
Course Number: 3033 Offered: Semester Block
Periods Per Week: 2 Open to Grades: 9, 10, 11
Prerequisites: None
Description: This course is for students who have not demonstrated adequate proficiency levels on the Keystone Algebra I assessment. It is designed to help students improve their Algebra skills through strategies aligned with the Pennsylvania Common Core Standards. The content focuses on operations, linear equations, linear inequalities, linear functions, and data organizations. Activities include group work, explorations, presentations, and individual practice. This course is pass/fail.

TITLE: **INTEGRATED ALGEBRA I** Credit Value: 1.00
Course Number: 3044 Offered:SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 9, 10
Prerequisites: Completion and passing of Elements of Mathematics I
Description: This five-day a week course is a prerequisite for Integrated Algebra II. This course is taken along with Elements of Mathematics I. Students will develop an understanding of Algebra I concepts. Topics include patterns, multiple representations, functions, linear equations and inequalities, systems of equations and inequalities, data analysis, probability, and statistics. Students will also be required to solve a variety of problems that apply mathematical concepts to real-world situations.

In addition to computer software, other activities include group work, presentations, explorations, and drill and practice to further develop comprehension of mathematical concepts.

Grades will be determined by both formative and summative assessments such as quizzes and tests, and calculator and computer work.

TITLE: **ALGEBRA I** Credit Value: 1.00
Course Number: 3063 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least an 83% or higher in Math 8 and a recommendation of current math teacher
Description: Algebra I is a standards-based algebra course including the following topics: tools of algebra, solving linear equations and inequalities, solving and applying proportions, graphs of linear functions, exponents, polynomials, factoring, quadratic equations and functions, and radical expressions and equations. Students will also learn to model real-world situations using functions in order to solve problems arising from those situations.

Activities include group work, individual projects, calculator activities, lecture, exploration, and problem solving. Grades will be determined by both formative and summative assessments. This course should be taken concurrently with Math Lab. With the successful completion of a 75% or higher in this course, students will proceed to Geometry.

TITLE: **INTEGRATED GEOMETRY** Credit Value: 1.00
Course Number: 3103 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: At least a 73% or higher in Integrated Algebra I or Algebra I and at least a 73% or higher in Integrated Algebra II
Description: Integrated Geometry will build a foundation of geometry concepts by making connections to algebra topics from pervious courses. Geometric structures and formulas will be used to model real-life experiences and the world we live in. Learning experiences include traditional instruction, projects, and critical thinking tasks. Students will work individually as well as in groups of varying sizes.

This course includes the study of topics such as: linear patterns, measurements of segments and polygons, parallel and intersecting lines, proportions and similarity, volume, and surface area of solids and structures.

Grades in this course are determined by both formative and summative assessments.

TITLE: **GEOMETRY** Credit Value: 1.00
Course Number: 3143 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% or higher in Algebra I
Description: Geometry is a standards-based geometry course including the following topics: tools of geometry, reasoning and proof, parallel and perpendicular lines, relationships with triangles, congruent triangles, quadrilaterals, Pythagorean theorem, special right triangles, right triangle trigonometry, area, similarity, geometric probability, surface area, volume, and circles. Students will also learn to model real-world situations using functions in order to solve problems arising from those situations.

Activities include group work, individual projects, lecture, exploration, and problem solving. Grades will be determined by both formative and summative assessments. This course should be followed by Algebra II or Integrated Algebra II.

TITLE: **GEOMETRY ACCELERATED** Credit Value: 1.00
Course Number: 3123 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grades: 9, 10
Prerequisites: At least an 83% in Algebra I Accelerated
Description: Geometry Accelerated is a standards-based geometry course including the following topics: tools of geometry, reasoning and proof, parallel and perpendicular lines, relationships with triangles, congruent triangles, quadrilaterals, Pythagorean theorem, special right triangles, right triangle trigonometry, area, similarity, surface area, volume, circles, constructions, coordinate geometry, trigonometry and area, and geometric probability. Students will also learn to model real-world situations using functions in order to solve problems arising from those situations.

Activities include group work, individual projects, lecture, exploration, and problem solving. Grades will be determined by both formative and summative assessments.

Because accelerated courses require mathematical understanding that is deeper and more complex than the core curriculum, students are expected to respond at an advanced level, work at a faster pace, and spend more time on exploration and enrichment topics. Additional outside study will also be required. This course should be followed by Algebra II Accelerated.

TITLE: **INTEGRATED ALGEBRA II** Credit value: 1.00
Course Number: 3163 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: A 73% or higher in Algebra I or Integrated Algebra I
Description: Integrated Algebra II is a standards-based Algebra II course which includes an instructional computer program to develop an understanding of Algebra II concepts. Topics include linear functions, systems, sequence and series, exponents, quadratic functions, functions, relations, and transformations.

Students will work individually, in groups, and on computers to further develop comprehension of mathematical concepts. The computers will be used, in addition to the text and classwork, as a supplement for the students to learn at their individual levels of achievement. Activities include group work, individual projects, calculator and computer activities, exploration, and problem solving.

Grades will be determined by both formative and summative assessments such as quizzes, tests, and computer work. Upon successful completion of this course, students will have the opportunity to enroll in Integrated Geometry.

TITLE: **ALGEBRA II** Credit Value: 1.00
Course Number: 3183 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in Algebra I and Geometry
Description: Algebra II is a standards-based Algebra II course including the following topics: tools of algebra, linear functions, equations and graphs, systems of equations, quadratic equations and functions, polynomials, polynomial functions, radical functions, rational exponents and functions, and statistics. Students will also learn to model real-world situations using functions in order to solve problems arising from those situations.

Activities include group work, individual projects, calculator activities, lecture, exploration, and problem solving. Grades will be determined by both formative and summative assessments. This course should be followed by Pre-Calculus, Algebra III, Trigonometry, or Probability and Statistics.

TITLE: **ALGEBRA II ACCELERATED** Credit value: 1.00
Course Number: 3193 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 9, 10, 11
Prerequisites: At least an 83% in Algebra I Accelerated and in Geometry Accelerated
Description: Upon completion of this course, students will be able to represent algebraically and graphically linear, absolute value, quadratic, polynomial, radical, exponential, and logarithmic functions and determine how the solutions to a linear equation, system of equations, system of inequalities, and polynomials compare and contrast. Students will also be able to model data using linear, quadratic, and exponential functions as well as solve problems using linear equations, systems of equations, systems of inequalities, quadratic functions, and polynomial functions.

Activities include group work, individual projects, calculator activities, lecture, exploration, and problem solving. Grades will be determined by both formative and summative assessments.

Because accelerated courses require mathematical understanding that is deeper and more complex than the core curriculum, students are expected to respond at an advanced level, work at a faster pace, and spend more time on exploration and enrichment topics. Additional outside study will also be required. This course should be followed by Pre-Calculus or Pre-Calculus Accelerated.

TITLE: **TRIGONOMETRY** Credit value: 1.00
Course Number: 3243 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: At least a 73% in Algebra II
Description: This course provides a fundamental background in trigonometry. Students will study two strands of trigonometry. The first strand involves the study of relationships between sides and angles of triangles or right triangle trigonometry. This strand culminates with the study of classical right triangle problems. In this strand, students will see how trigonometry is used in surveying and navigation.

In the second strand, students will study the relationships of sides and angles of a right triangle as functions. Using a circle, students will explore relationships between the trigonometric functions, how to evaluate the trigonometric function of any angle, the parent graphs of the trigonometric functions and transformations of their graphs, inverse trigonometric functions, identities, and how to solve trigonometric equations. The course ends with the study of oblique triangles using the law of sines and the law of cosines.

(Course description continued on next page.)

Activities include lecture, demonstration, group work, and problem solving using the graphing calculator. Grades are determined primarily by scores on tests, quizzes, homework quizzes, classwork, and group projects.

Algebra III and Trigonometry can be taken upon successful completion of Algebra II.

TITLE: **ALGEBRA III** Credit Value: 1.00
Course Number: 3244 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: At least a 73% in Algebra II
Description: Algebra III is a course that will allow a smooth transition to college mathematics. It is an in-depth course which investigates polynomial, rational function, exponential, quadratic, and logarithmic equations. Students will also learn to model real-world situations using various equations in order to solve problems arising from those situations.

Activities include group work, individual projects, calculator activities, lecture, exploration, and problem solving. Grades will be determined by both formative and summative assessments. Successful completion of a 93% or higher in this course and Trigonometry will prepare students for Calculus, Business Calculus, or AP Statistics.

TITLE: **PRE-CALCULUS** Credit Value: 1.00
Course Number: 3263 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: At least a 73% in Algebra II Accelerated or at least a 93% in Algebra II
Description: Pre-Calculus is an advanced level, demanding, fast-paced course. This course is designed to prepare students who plan to pursue college studies in mathematics, engineering, or the sciences. The central theme of Pre-Calculus is functions as models of change and how transformations alter the parent graphs. Pre-Calculus combines both advanced algebra and trigonometric families of functions; each family of functions and their inverse is represented symbolically, numerically, graphically, and verbally. The advanced algebra functions include those that are linear, quadratic, absolute value, square root, cubic, higher power polynomial, rational, exponential, and logarithmic functions. The trigonometric function study includes the six trigonometric functions and their graphs, identities, solving trigonometric equations, radian measure, and problem solving with real-world applications of both right triangles and oblique triangles using the laws of sines and cosines.

Activities include demonstration, discussion, group work, and problem solving both in and out of class. Homework is expected to be completed every night. The TI-84 Plus graphing calculator is essential. Grades are determined primarily by scores on tests, quizzes, homework, and individual or group projects and assessments.

Students have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **PRE-CALCULUS ACCELERATED** Credit Value: 1.00
Course Number: 3265 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least an 83% in Algebra II Accelerated
Description: Pre-Calculus Accelerated is an advanced level, demanding, fast-paced course. All the topics in Pre-Calculus are included as well as vectors, proof work, conic sections, and limits. Because “Accelerated” courses require mathematical understanding that is deeper and more complex than the core curriculum, students are expected to respond at an advanced level, work at a faster pace, and spend more time on exploration and enrichment topics. Additional outside study will also be required.

Students have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **BUSINESS CALCULUS** Credit Value: 1.00
Course Number: 3283 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in Pre-Calculus or Pre-Calculus Accelerated or at least a 93% in both Algebra III and Trigonometry
Description: This course offers exposure to the fundamental principles of calculus regarding differentiation and integration. It may serve as an introduction to calculus for those who later plan on taking a first course in scientific calculus, or it may be taken for the purpose of earning college credit through the University of Pittsburgh for those planning on pursuing further studies and/or careers in business, economics, life sciences, and social sciences. The course will cover topics including: limits and their applications, derivatives for the purpose of graphing and optimization, implicit differentiation, business concepts including marginal analysis and elasticity of demand, integration techniques, practical uses of the definite integral, and optimization of multivariable functions.

Students have the option to register with the University of Pittsburgh to earn college credit through its College in High School (CHS) program.

TITLE: **CALCULUS** Credit Value: 1.00
Course Number: 3273, 3274, 3275 Offered: Full-Year Block
Periods Per Week: 5 First Semester, 2 Second Semester Open to Grades: 9, 10, 11, 12
Prerequisites: At least an 83% in Pre-Calculus or a 73% in Pre-Calculus Accelerated or at least a 93% in both Algebra III and Trigonometry
Description: This is an advanced-level, demanding course for students who are highly motivated. This is a study of topics in differential and integral calculus, including limits, differentiation, integration, and solids of revolution.

Emphasis is placed on a multirepresentational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The focus is on the application of these concepts, rather than the manipulation or memorization of an extensive taxonomy of functions, curves, theorems, or problem types.

Activities include group work, individual projects, calculator activities, lecture, exploration, and problem solving. Students should expect to spend a minimum of 45 minutes daily on assigned work, study, and review. Grades are based on both formative and summative assessments such as tests, quizzes, projects, and activities. This course makes considerable use of the graphing calculator. It is recommended that the student have a TI-84 Plus calculator to use throughout the course.

This course will not prepare students for the Advanced Placement Calculus AB exam, since the curriculum of Calculus is not equivalent to the curriculum of Advanced Placement Calculus AB. In addition, this course will not prepare students to take Advanced Placement Calculus BC.

Students have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **CALCULUS AB ADVANCED PLACEMENT** Credit Value: 1.00
Course Number: 3293, 3294, 3295 Offered: Full Year Block
Periods Per Week: 5 First Semester, 2 Second Semester Open to Grades: 9, 10, 11, 12
Prerequisites: At least an 83% in Pre-Calculus Accelerated
Description: This is an advanced-level, extremely demanding, fast-paced course for students who are mathematically gifted and highly motivated. This is an intensive study of topics in differential and integral calculus, including limits, differentiation, related rates, implicit differentiation, Newton's Method, particle motion, differential equations, integration, u-substitution, and solids of revolution. Emphasis is placed on a multirepresentational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The focus is on the application of these concepts, rather than the manipulation or memorization of an extensive taxonomy of functions, curves, theorems, or problem types.

Activities include group work, individual projects, calculator activities, lecture, exploration, and problem solving. Students should expect to spend a minimum of one hour daily on assigned work, study, and review. Grades are based on both formative and summative assessments such as tests, quizzes, projects, and activities. This course makes considerable use of the graphing calculator. It is recommended that the student have a TI-84 Plus calculator to use throughout the course.

This course meets the requirements for preparation for the Calculus AB Advanced Placement exam. Students also have an option to register with the University of Pittsburgh to earn credit through Pitt's College in High School (CHS) program.

The FCAO version of this course is only available to full-time online students.

TITLE: **CALCULUS BC ADVANCED PLACEMENT** Credit Value: 1.00
Course Number: 3303 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: At least an 83% in Calculus AB Advanced Placement
Description: This is an advanced-level, extremely demanding, fast-paced course for students who are mathematically gifted and highly motivated. It emphasizes more exhaustive problem solving. This is an intensive study of topics in differential and integral calculus, including all topics from Calculus AB Advanced Placement, as well as techniques of integration; improper integrals; sequence and series; and parametric, polar, and vector functions. Emphasis is placed on a multirepresentational approach to calculus, with concepts, results, and problems, being expressed graphically, numerically, analytically, and verbally. The focus is on the application of these concepts, rather than the manipulation or memorization of an extensive taxonomy of functions, curves, theorems, or problem types.

Activities include group work, individual projects, calculator activities, lecture, exploration, and problem solving. Students should expect to spend a minimum of one hour daily on assigned work, study, and review. Grades are based on both formative and summative assessments such as tests, quizzes, projects, and activities. This course makes considerable use of the graphing calculator. It is recommended that the student have a TI-84 Plus calculator to use throughout the course.

This course meets the requirements for preparation for the Calculus BC Advanced Placement exam.

TITLE: **PROBABILITY AND STATISTICS** Credit Value: 1.00
Course Number: 3252 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: At least a 73% in Algebra II or at least an 93% in Integrated Algebra II
Description: This course provides an introduction to the concepts of probability and statistics. Topics included in this course are simple and compound probability, permutations, combinations, counting rules, measures of center and variation, graphical displays, z-scores, normal distribution, sampling distributions, estimation of mean and proportion, hypothesis tests about the mean and proportion, and simple linear regression.

Activities include lecture, demonstration, experimentation, and group and individual projects. Grades are based upon performance on both formative and summative assessments such as tests, quizzes, and activities.

TITLE: **STATISTICS ADVANCED PLACEMENT** Credit Value: 1.00
Course Number: 3253 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least an 83% in Pre-Calculus, or at least a 93% in both Algebra III and Trigonometry, or at least a 73% in Pre-Calculus Accelerated
Description: This course is equivalent to an introductory, non-calculus based, college course in statistics which is typically required for college majors such as engineering, psychology, sociology, health science, and business. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Problem-solving application is emphasized. Topics included in the course are the organization of data, numerical descriptive measures, probability, discrete random variables and their probability distributions, continuous random variables and the normal distribution, sampling distributions, estimation of the mean and proportion, hypothesis tests about the mean and proportion, estimation and hypothesis for two populations, chi-square tests, analysis of variance, and simple linear regression.

Activities include lecture, demonstration, problem solving – both individually and in small groups, and projects. Grades will be determined by both formative and summative assessments.

This course meets the requirements for preparation for the AP exam in Statistics given in May. Students also have an option to register with the University of Pittsburgh to earn credit through its College in High School (CHS) program.

TITLE: **LINEAR ALGEBRA** Credit Value: 1.00
Course Number: 3313 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 11, 12
Prerequisites: At least an 83% in Business Calculus, Calculus, or Calculus AB Advanced Placement
Description: This course studies the relationships between systems of linear equations, properties of matrices and vectors, properties of vector and inner product spaces, and linear transformations. A topical outline of the course includes systems of linear equations, matrices, determinants, vectors in 2-space and 3-space, Euclidean vector spaces, general vector spaces, inner product spaces, eigenvalues and eigenvectors, linear transformations, and applications.

This course combines both theoretical and computational skills. The use of the TI-84 Plus graphing calculator is considered integral. Activities include lecture, demonstration, individual and group problem solving, and student presentations. Assignments are given daily and students should expect to spend a minimum of 30 minutes daily on assigned work, study, and review.

Please Note: Students who do not meet the prerequisites for mathematics courses can waiver into a course, provided the student's grade is within 3% of the prerequisite. If a student's grade is not within the 3%, placement exams are offered to students who wish to be placed into the subsequent course. A score of 88% or better is needed on placement exams to test into a subsequent course. All placement exams have to be completed by the second week of school. Please contact *kristine_yacamelli@fcasd.edu* by August 1 of each school year if you are interested in this option.

Students wishing to sign waivers or who have passed a placement exams are enrolling in a more challenging mathematics course than what has been recommended. It should be noted that in the past, students entering into mathematics courses via waivers and placement exams have often obtained lower grades than in their previous math classes. This should be taken into consideration when choosing to enter into a course for which the student has not met the prerequisite grade.

Computer Science



TITLE: **COMPUTER SCIENCE ADVANCED PLACEMENT** Credit Value: 1.00
Course Number: 3393, 3394, 3395 Offered: Full Year Block
Periods Per Week: 5 First Semester, 2 Second Semester Open to Grades: 9, 10, 11, 12
Prerequisites: At least an 83% in Algebra II Accelerated, or at least a 90% in Algebra II. Prior programming experience is highly recommended.
Description: This course is for highly motivated students, and is an advanced-level, extremely demanding, fast-paced course which will apply, further develop, and refine skills in both problem solving and written communication. The course will provide the equivalent of introductory college-level work for computer science majors and for students who will major in other disciplines that require significant involvement with computing.

This course meets the requirements for preparation for the Computer Science AP exam in May. Java is the language prescribed by the AP syllabus for use in this course. The writing and implementing of object-oriented, logically-structured, well-documented computer programs, and the development of good programming habits are emphasized. Concepts covered include assignment, decision making, looping, class design, introductory data structures, searching and sorting algorithms, and recursion.

Class activities will include lecture, demonstration, and problem-solving experiences both online and offline. Students are expected to complete nightly homework assignments and frequent programming projects. Grades will be determined from the student's scores on tests and programming assignments.

TITLE: **PRINCIPLES OF COMPUTER SCIENCE ADVANCED PLACEMENT** Credit Value: 1.00
Course Number: 3396 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least an 83% in Algebra I or Algebra I Accelerated
Description: This college-level course focuses on the central ideas of computer science, instilling the ideas and practices of computational thinking and the impact computing has had on the world. This course provides a broader range of concepts in computing than does Computer Science AP, but does not cover the specific topics from Computer Science AP with as much depth. It is designed to be equivalent to a first-semester introductory college computing course for students who may not be majoring in a computer-related field. Prior computer programming experience is not required.

The curriculum for this course utilizes both a block-based and the JavaScript programming languages to allow students to create their own computational artifacts by using technology and programming as a means to solve computational problems. It is designed with a focus on multidisciplinary, creative problem solving and real-world applications as students are challenged to explore how computing and technology can impact the world.

This course meets the requirements for preparation for the AP Computer Science Principles exam. Part of this exam will be completed as in-class performance tasks for which students submit digital artifacts to demonstrate the skills they have developed. Topics in this course include creativity in computing, abstraction, data and information, algorithms, programming, the Internet, and global impacts of computing and cybersecurity.

Class activities will include lecture, research, demonstration, and problem-solving experiences both online and offline. Students are expected to be independent thinkers and problem solvers in order to complete daily assignments and frequent projects. Grades will be determined from the student's scores on tests and projects.

TITLE: **DATA STRUCTURES AND ALGORITHMS** Credit Value: 1.00
Course Number: 3397 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: At least an 83% in Computer Science Advanced Placement
Description: This course is equivalent to a second-level college course in computer science. The topics covered are the same topics that computer science majors would see in a data structures and algorithms course, but without the formal level of mathematical proofs that would be required in such a course.

This course will further the study of the Java programming language begun in Computer Science AP. Topics included are inheritance, interfaces, searching, sorting, analysis of algorithms, lists, stacks, queues, hash tables, and binary trees. Students are also expected to investigate other advanced topics, such as event-driven programming and graphical user interfaces, as needed, in order to produce their final projects.

Class activities will include lecture, research, demonstration, and problem-solving experiences both online and offline. All grades in this class will be project-based. These projects include programs assigned to demonstrate concepts learned in class, as well as a large-scale software development project that students will be planning, refining, and implementing as their final exams.

Science

TITLE: **INTEGRATED SCIENCE SYSTEMS** Credit Value: 1.00
Course Number: 4093 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grade: 9
Prerequisites: None
Description: Integrated Science Systems is a multidisciplinary approach to the relationships between biology and chemistry in the natural world. This course will provide a classroom environment that uses problem-based exercises, class discussions, demonstrations, lectures, cooperative group work, laboratory experiences, and individual work to introduce these concepts. Evaluations will be based upon student performances on tests and quizzes, projects, classwork, and out-of-class activities.

This course provides students with the foundation for Biology I.

TITLE: **NATURE OF SCIENCE SYSTEMS** Credit Value: .50
Course Number: 4153 Offered: Semester Block
Periods Per Week: 2 Open to Grade: 9
Prerequisites: Students must have at least an 87% in 8th-grade Science, at least an 85% in Math 8, and a teacher recommendation.
Description: This course is a foundational Biology course designed to precede 9th-grade spring biology. This course will introduce the principles necessary to promote scientific literacy and support incoming freshmen students in their transition into the high school science program, without restricting their options for science electives during their high school career. This is a two-day course that is only offered in the fall semester. **Students must successfully complete this course with a 75% or greater to continue to Biology I in the spring semester.**

TITLE: **BIOLOGY I** Credit Value: 1.00
Course Number: 4143 (9th Grade) & 4163 (10th Grade) Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grades: 9, 10
Prerequisites: For 9th grade, at least a 75% in Nature of Science Systems in the fall semester; for 10th grade, successful completion of Integrated Science Systems
Description: This course builds on the concepts introduced in the Nature of Science Systems and Integrated Science Systems courses.

Course topics include: what is life, the nature of science, cellular structure and function, energy, ecology, evolution, the cell cycle, meiosis, classical genetics, and biotechnology. Course activities and evaluations will include: lectures, class discussions, demonstrations, cooperative group work, small-group laboratory activities, individual work, formative assessments, projects, classwork, and out-of-class-activities. At the end of this course, students will participate in the state-mandated Biology Keystone Exam.

TITLE: **BIOLOGY I ACCELERATED** Credit Value: 1.00
Course Number: 4173, 4174, and 4175 Offered: Full Year Block/FCAO
Periods Per Week: 5 One Semester, 2 One Semester Open to Grades: 9, 10
Prerequisites: For 9th grade, at least a 93% in 8th grade science and at least an 80% in Algebra I Accelerated or Algebra I. All 9th-graders must also have a recommendation from their 8th grade science teacher. Tenth-graders must have at least a 95% in Integrated Science Systems and a teacher recommendation and at least an 80% in Algebra I.
Description: This course is a molecular approach to biology and is designed to be an introductory course for college-bound students intending to major in science or a related field. Learning is emphasized by inquiry and application, therefore additional time is provided for laboratory work. The general concepts included are: the scientific method, basic chemistry, biochemistry, cell structure, function and processes, evolution, genetics, ecological relationships, and biotechnology. Evaluations include tests, quizzes, laboratory investigation, and out-of-class assignments. At the end of this course, students will participate in the state-mandated Biology Keystone Exam.

TITLE: **BIOLOGY II ADVANCED PLACEMENT**
Credit Value: 1.00
Course Number: 4193, 4194, 4195
Offered: Full Year Block
Periods Per Week: 5 First Semester, 2 Second Semester
Open to Grades: 11, 12
Prerequisites: At least an 85% in Biology I Accelerated and at least an 80% in Chemistry I Accelerated, or at least a 90% in Biology I and at least an 85% in Chemistry I Accelerated, or at least a 90% in Chemistry I with a teacher recommendation.
Description: Biology II Advanced Placement is a course for college-bound students who want a second level of biology and is designed to be the equivalent of a two-semester college introductory biology course. This is a survey course covering topics which include molecular-cellular biology, evolution, diversity, basic biology of plants and animals, and ecology. The fundamental biological concepts are studied in depth through a mixture of lectures, discussions, projects, laboratory work and supplemental readings of current scientific literature. Laboratory activities, which correspond to topics being covered in class, have been designed to help students improve their observational skills, learn how to gather and analyze data, and to design experiments. Evaluation criteria include tests, laboratory investigations, assignments, and projects. In May, students will have the option of taking the AP exam for possible college credit.

TITLE: **ECOLOGY**
Credit Value: 1.00
Course Number: 4223
Offered:SemesterBlock/FCAO
Periods Per Week: 5
Open to Grades: 10, 11, 12
Prerequisites: Completion of Biology I and not yet Proficient or Advanced on the Keystone Biology Exam
Description: Ecology is the study of interactions between living things and their environments. This course gives students a general overview of human and natural ecology. Topics include: energy through the biosphere, water, population dynamics, biodiversity, niches, competition, and plants. Class activities include class discussions, demonstrations, online learning, lectures, cooperative group work, small-group laboratory activities (indoor and outdoor), and individual work. Evaluations will be based upon student performances on tests and quizzes, projects, classwork, and out-of-class activities.

TITLE: **PHYSICAL SCIENCE**
Credit Value: 1.00
Course Number: 4243
Offered: SemesterBlock/FCAO
Periods Per Week: 5
Open to Grades: 10, 11, 12
Prerequisites: Biology I
Description: This course is for students who want additional science experience but do not have the mathematic prerequisites necessary to take Physics I or Chemistry I. Practical, real-world applications of science are stressed. Topics include matter, chemical interactions, chemical reactions, motion, forces, and energy. This course involves some laboratory activities, demonstrations, student presentations, and projects. Evaluation criteria include classroom activities, lab write-ups, quizzes, and projects.

Students who have successfully completed either Chemistry I or Physics I cannot take this course.

TITLE: **ASTRONOMY**
Credit Value: 1.00
Course Number: 4253
Offered: Semester Block/FCAO
Periods Per Week: 5
Open to Grades: 11 (if space is available), 12
Prerequisites: Biology I
Description: Astronomy will provide students with theory in nighttime observations of the seasonal skies. In addition to textbook and laboratory related materials, students will work extensively with the high school planetarium. The course will cover the following: Earth motions and how those motions affect the day and night sky; constellation location in the northern and southern skies; celestial movements of the sun and moon; planetary location, motion, and comparative planetary geology; and life cycles of stars and galaxies.

Evaluation criteria include homework assignments, student participation in class, completion of projects and assignments, and tests and quizzes.

TITLE: **CHEMISTRY I** Credit Value: 1.00
Course Number: 4263 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: An 80% or higher in Biology I. Students also must have had at least an 85% in their previously completed math course.
Description: This chemistry course is for students who want a background in chemistry but who may not plan to pursue further study in biology, chemistry, or physics. Studies will include formulas, problem solving, and the chemical structure of matter. Academic progress is measured through the use of chapter tests, homework, and written lab reports.

TITLE: **CHEMISTRY I ACCELERATED** Credit Value: 1.00
Course Number: 4273, 4274, and 4275 Offered: Full Year Block/FCAO
Periods Per Week: 5 One Semester, 2 One Semester Open to Grades: 10, 11, 12
Prerequisites: At least an 85% in Biology I Accelerated or at least a 93% in Biology I; students with an 84% or lower in Biology I Accelerated must have a written recommendation from their biology teacher. Students also must have had at least an 85% in their previously completed math course.
Description: This course is designed for college-bound students planning to study in a science or science-related fields. It is the recommended course for students planning to take Chemistry II AP.

The course involves lecture, demonstrations, and laboratory experience. Numerous chemical topics such as atomic structure, chemical equations, periodicity, stoichiometry, and behavior of gases are studied in depth. The students are expected to solve related mathematical problems throughout the year. A laboratory report is required with each experiment. The final course grade is a weighted average of the four nine-weeks and the grade of the final exam.

TITLE: **CHEMISTRY II ADVANCED PLACEMENT** Credit Value: 1.00
Course Number: 4293, 4294, and 4295 Offered: Full Year Block
Periods Per Week: 5 First Semester, 2 Second Semester Open to Grades: 11, 12
Prerequisites: At least an 87% in Chemistry I Accelerated; students with an 87% or lower in Chemistry I Accelerated must have a written recommendation from their chemistry teacher. Students also must have had at least an 87% in Algebra II Accelerated or Precalculus.
Description: Chemistry II Advanced Placement is designed for students planning to major in chemistry or related fields of science. The fundamental principles of chemistry are stressed so that students may compete successfully in freshman college chemistry courses. Topics include atomic/molecular structure, states of matter, kinetics, chemical equilibria, acid/base relations, thermochemistry, electrochemistry, and organic chemistry.

The principles of chemistry are taught through demonstration, problem solving, equation writing, laboratory work, and classroom discussions. Grades are calculated using school percentages. The final course grade is calculated using weighted percentages for the four grading periods and the final exam.

In May, students have the option of taking the AP exam for possible college credit.

TITLE: **ANATOMY AND PHYSIOLOGY** Credit Value: 1.00
Course Number: 4313 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 11, 12
Prerequisites: Biology I and Chemistry I (Chemistry I may be taken concurrently)
Description: Anatomy and Physiology is an introductory course for students considering careers in areas related to medicine such as nursing, medical technology, or physical therapy. The course will allow the students to make application of human anatomy and physiology to their own lives, and will provide them with a background that is applicable to postsecondary education.

Students will experience anatomy and physiology through a variety of methods, including laboratory experiences, discussion, writing, reading in the content area, current events, and projects. They will share their information with others in the class through project presentations. Students are encouraged to utilize their acquired skills in research, public speaking, technology, art, and other areas in the completion and presentation of their projects.

TITLE: **PHYSICS MECHANICS** Credit Value: 1.00
Course Number: 4343 Offered:SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: Completion of Algebra II with an 80% or better
Description: This course is a study of Newtonian Mechanics with a major focus on forces, motion and energy. There is a major hands-on component to this class, and the ultimate goal is for students to gain a deep level of understanding of the basic concepts of Mechanics, and be able to solve problems of this nature.

Students will be evaluated through a variety of methods, including lab reports, problem solving activities, exams and projects.

TITLE: **PHYSICS ACCELERATED** Credit Value: 1.00
Course Number: 4363 Offered:SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: Precalculus with an 85% or better. Students may, however, be concurrently enrolled in Precalculus with Physics Accelerated.
Description: In this course, approximately 70 percent of the instructional time will be dedicated to Newtonian Mechanics, and 30 percent will be dedicated to electricity. There will be major hands-on and problem solving components to this course, and the ultimate goal is for students to develop a deep level of understanding of mechanics, as well as a basic understanding of electric circuits. In addition, students completing this course should be adequately prepared for both Physics AP courses.

TITLE: **PHYSICS C MECHANICS ADVANCED PLACEMENT** Credit Value: 1.00
Course Number: 4393 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: Successful completion of Physics Accelerated or Physics Mechanics with an 85% or better and successful completion of Calculus with an 85% or better. Please note that FCAO Physics Mechanics and FCAO Physics Accelerated are not approved as prerequisites for Physics C Mechanics Advanced Placement.
Description: This course follows the syllabus requirements of the College Board for students planning to take the AP Physics C Mechanics exam. Major emphasis is on development of models in a lab environment, and using the models to solve complex problems, many of which utilize calculus-based math skills.

TITLE: **PHYSICS C ELECTRICITY AND MAGNETISM ADVANCED PLACEMENT** Credit Value: 1.00
Course Number: 4394 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: Successful completion of Physics Accelerated with an 85% or better. (Note: Physics Mechanics is not a suitable prerequisite.) Also successful completion of Calculus with an 85% or better. Please note that FCAO Physics Mechanics and FCAO Physics Accelerated are not approved as prerequisites for Physics C Electricity and Magnetism Advanced Placement.
Description: This course follows the syllabus requirements of the College Board for students planning to take the AP Physics C Electricity and Magnetism exam. Major emphasis in this course is on development of models in a lab environment, and using the models to solve complex problems, many of which utilize calculus-based math skills.



TITLE: **ENVIRONMENTAL SCIENCE**
Credit Value: 1.00
Course Number: 4492
Offered:SemesterBlock/FCAO
Periods Per Week: 5
Open to Grades: 10, 11, 12
Prerequisites: Biology I
Description: Environmental Science is the study of interactions between living things and their environments. This course gives students a general overview of the human impact on our environment. Topics include aquatic and terrestrial biomes, ecosystems form and functions, and maintaining and sustaining a healthy Earth. Class activities include class discussions, demonstrations, online learning, lectures, cooperative group work, small-group laboratory activities, and individual assignments. Evaluations will be based upon student performances on formative and summative assessments, projects, classwork, and out-of-class activities.

TITLE: **ENVIRONMENTAL SCIENCE ADVANCED PLACEMENT**
Credit Value: 1.00
Course Number: 4493
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 11, 12
Prerequisites: At least an 85% in Biology and Chemistry
Description: This AP course is designed to be equivalent to a one-semester introductory level college course in environmental science as well as human impacts. The course will cover a variety of topics from biology, geology, chemistry, and geography as they relate to environmental science. The course will have a science-based emphasis rather than a social or political emphasis. The topics covered will be similar to Ecology, but will be at a higher level designed to meet the needs of students planning on a career in an environmental-related field or the college-bound student with an interest in environmental science. Students taking this class will qualify to take the AP exam in May.

TITLE: **FCAO EARTH AND SPACE (Online Only)**
Credit Value: 1.00
Course Number: 40053
Offered: FCAO
Periods Per Week: 5
Open to Grades: 10, 11, 12
Prerequisites: Biology I
Description: Earth and Space is a study of the Universe and the Earth's place in it, including Earth's history and mechanisms currently shaping our planet. Topics include the structure of the Universe, fossils, dating methods, geologic time, Earth's structure, plate tectonics, earthquakes, and volcanoes. Additionally, rocks and the rock cycle, as well as Earth's hydrosphere and atmosphere, weather, and natural resources are studied. This class is fully online with virtual labs and written lab reports.



World and Classical Languages

TITLE: **FRENCH I**
Course Number: 5013
Periods Per Week: 5
Credit Value: 1.00
Offered: Semester Block/FCAO
Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in English
Description: This first level course of French uses an integrated approach to language learning. All new material is thoroughly reinforced using a contemporary French textbook as well as audio and visual materials. French I incorporates the systematic development of basic listening, speaking, reading, and writing. Major units covered include regular and irregular verbs, articles, adjectives, and prepositions. Emphasis will be placed on the development of speaking and listening skills using proficiency-based instruction. Speaking and listening practice with recorded native French speech will be an integral part of the course. The culture and customs of France will be discussed and studied in each unit.

TITLE: **FRENCH II**
Course Number: 5023
Periods Per Week: 5
Credit Value: 1.00
Offered: Semester Block/FCAO
Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in French I
Description: In this class, students build on the French skills attained in French I, while moving toward developing greater fluency in speaking and writing. Spoken and written language will progress from short sentence level to a more cohesive paragraph level. In a similar fashion, reading and listening comprehension will also be developed. Exposure to French culture in France and the rest of the Francophone world is also an important component of this course. Class activities will include daily conversation in French, various communication exercises that build listening and speaking skills, watching video clips in French, listening to French music, and reading short texts.

TITLE: **FRENCH III**
Course Number: 5033
Periods Per Week: 5
Credit Value: 1.00
Offered: Semester Block/FCAO
Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in French II
Description: French III is a continuation of the development of the listening, speaking, reading, and writing skills from French II. The course content is arranged, in part, around communicative goals that stress the practical needs of an individual living or visiting a French-speaking country. In this course students are introduced to three new verb tenses: the imperfect, the conditional, and the future, as well as grammatical structures that allow students to increase the degree to which they are able to interpret and produce language. Students use these and other grammatical concepts in a variety of classroom and independent activities, including language labs, videos, songs, dialogues, skits, games, and creative writing.

Students also have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **FRENCH IV**
Course Number: 5043
Periods Per Week: 5
Credit Value: 1.00
Offered: Semester Block/FCAO
Open to Grades: 10, 11, 12
Prerequisites: At least a 73% in French III
Description: This is an advanced language course designed to help students continue to develop and refine their French language skills. It includes a review of all verb tenses learned in levels I, II, and III, as well as new learning of these advanced tenses: the past imperfect, the future perfect, the past subjunctive, the passé simple, and the past conditional. Students will develop advanced language proficiency as they engage in progressively more challenging readings, writings, listening activities, and speaking assignments. They will also gain cultural knowledge through units on French art, French music, and French history, with an emphasis on the French Revolution. Learning is extended beyond the classroom by making connections to other disciplines and by strengthening an understanding and appreciation of cultural similarities and differences among a wide variety of francophone countries.

Students also have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **FRENCH V ADVANCED PLACEMENT IN FRENCH LANGUAGE**
Course Number: 5053
Periods Per Week: 5
Credit Value: 1.00
Offered: Semester Block
Open to Grades: 11, 12
Prerequisites: Successful completion of French IV with a 83% average

(Course description continued on next page.)

Description: This course is designed to prepare the student for the Advanced Placement (AP) examination in French language. Since students will have seen all grammatical forms in previous courses, the emphasis will be on reviewing grammar and using advanced forms in writing more sophisticated essays.

Language skills are refined through a series of prepared oral presentations, discussion, debate, and responses to questions presented in class. Through writing and speaking on a wide range of topics, students expand their vocabulary and perfect their writing style in French, as well as work to improve their critical thinking.

Listening skills are further developed by daily participation in classroom discussion, viewing French films and listening to French songs, listening to recordings of native French speakers, and viewing video programs which highlight political, cultural, and social events of the Francophone world.

Students also have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **FRENCH VI – CONVERSATION** Credit Value: 1.00
Course Number: 5063 Offered: Semester Block
Periods Per Week: 5 Open to Grade: 11, 12
Prerequisites: At least a 73% in French V
Description: French VI is a highly concentrated course emphasizing the spoken skills of the language. French VI will enable the student to speak and use the language as much as possible in a classroom situation. The course will utilize a multimedia approach incorporating textbooks, videos, cassette recordings, etc. The target foreign language, French, will be used exclusively in the classroom. Grammatical structures will be explained as needed to facilitate the spoken language.

TITLE: **SPANISH I** Credit Value: 1.00
Course Number: 5113 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in English
Description: This course is designed to help beginning students attain proficiency in the four skills of listening, speaking, reading, and writing. The students acquire a firm linguistic base which serves as the foundation of effective communication and meaningful language proficiency. The language is presented within the context of the contemporary Spanish-speaking world and its many cultures.

Grades are determined by class participation, homework, and oral and written exams and quizzes.

TITLE: **SPANISH II** Credit Value: 1.00
Course Number: 5123 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in Spanish I
Description: In Spanish II, students continue to develop the skills required to actively use the language in a variety of situations. Vocabulary and grammatical structures are taught within a personal and cultural context. Pair and group activities foster and encourage oral proficiency by allowing students to practice and to use the language creatively. Opportunities for reading, writing, and listening include the use of short articles, recorded conversations, stories, music, and Internet activities.

TITLE: **SPANISH III** Credit Value: 1.00
Course Number: 5133 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% average in Spanish II
Description: The level III textbook reflects the vision of the National Standards for Foreign Language Learning. Language and communication are at the center of all cultures. Students are encouraged to work together to improve listening, speaking, and writing skills by actively participating in guided communicative activities. They speak and write, first from their own experience, and then by considering the point of view of others, including other cultures. Activities include skits, art, music, readings, authentic materials, and audio and video tapes. Assessment is both oral and written.

Students also have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **SPANISH IV** Credit Value: 1.00
Course Number: 5143 Offered: SemesterBlock/FCAO
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: At least a 73% in Spanish III
Description: In Spanish IV students explore various topics through the use and refinement of personal, interpersonal, and presentational modes of communication. Students are guided from the novice level of oral proficiency where they used memorized

(Course description continued on next page.)

material, to an intermediate level where they can create with the language and participate in more challenging conversations. The linguistic goal is to help students strengthen their command of the spoken and written Spanish language. The lessons focus on high-interest themes and include a variety of authentic texts and writing models. Students participate in realistic listening and speaking activities and use video and the Internet to explore the Spanish-speaking world.

Students also have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **SPANISH V ADVANCED PLACEMENT IN SPANISH LANGUAGE** Credit Value: 1.00
Course Number: 5153 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: Successful completion of Spanish IV with an 83% average
Description: The Advanced Placement (AP) course in Spanish is a highly concentrated study of the language. The course will emphasize the use of language for active communication. The objectives will include developing the ability to understand spoken Spanish in various contexts and from a variety of sources; acquiring a vocabulary sufficiently ample for reading newspapers, magazine articles, literary texts, and other nontechnical writings; and demonstrating the ability to express oneself coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken Spanish.

This course prepares the student for the AP Spanish language exam given in May.

Students also have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **SPANISH VI – CONVERSATION** Credit Value: 1.00
Course Number: 5163 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 11, 12
Prerequisites: At least an 83% in Spanish V AP
Description: The goal of this course is to help students practice old and new skills to achieve higher levels of speaking proficiency by the end of the semester. This class is conducted 100 percent in Spanish. Research and analysis of historical events in Latino culture will help students understand the past, the present, and the future of Latin America. Via the use of movies, untranslated literature, articles, news, etc., students will be able to understand events and comprehend cultural similarities and differences, as well as to form and emit opinions, all in the target language.

Students also have the option to register with Seton Hill University through its College in High School (CHS) program.

TITLE: **GERMAN I** Credit Value: 1.00
Course Number: 5213 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in English
Description: This first level course is designed to teach the beginning skills of a foreign language. The course begins by stressing pronunciation and vocabulary. Basic grammatical structures are systematically taught, vocabulary is developed, basic conversational and writing skills are begun, and the students are introduced to various cultural aspects of the German-speaking countries.

Students will be expected to gain beginning level oral and written proficiency in the language. Grades are determined by oral and written tests, class participation, and homework.

TITLE: **GERMAN II** Credit Value: 1.00
Course Number: 5223 Offered: Semester Block/FCAO
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in German I
Description: The second year course continues to stress listening comprehension and speaking skills. Emphasis is placed on vocabulary building and the systematic development of grammatical structure. Students will be expected to participate in creative activities involving oral and written expression, integrating certain cultural aspects of the German-speaking world in a meaningful, personal context.

Students will be expected to gain oral and written proficiency in the language at an intermediate level. Grades are determined by oral and written tests, class participation, and homework.

TITLE: **GERMAN III** Credit Value: 1.00
Course Number: 5233 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% grade in German II
Description: German III provides for the further development of vocabulary and grammar skills. Emphasis is placed on graded reading materials and conversation. Opportunities are provided for oral presentation and written composition.

Students will be expected to gain oral and written proficiency in the language at a higher level. Grades are determined by oral and written tests, class participation, and homework.

Students also have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **GERMAN IV**
Credit Value: 1.00
Course Number: 5243
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 10, 11, 12
Prerequisites: At least a 73% in German III
Description: This course provides a further development of conversation and grammar skills. Particular emphasis is placed on various reading materials in German literature and history, and opportunities are provided for oral and written expression in the target language.

Students will be expected to gain oral and written proficiency in the language at a more advanced level. Grades are determined by oral and written tests, class participation, and homework.

Students also have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **GERMAN V ADVANCED PLACEMENT IN GERMAN LANGUAGE**
Credit Value: 1.00
Course Number: 5253
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 10, 11, 12
Prerequisites: Successful completion of German IV with an 83% average
Description: The Advanced Placement (AP) course in German is a highly concentrated study of the language. The course will emphasize the use of language for active communication. The objectives will include developing the ability to understand spoken German in various contexts and from a variety of sources; acquiring a vocabulary sufficiently ample for reading newspapers, magazine articles, literary texts, and other nontechnical writings; and demonstrating the ability to express oneself coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken German.

This course meets the requirements for preparation for the AP German language exam which may be taken at the discretion of the student.

TITLE: **GERMAN VI**
Credit Value: 1.00
Course Number: 5263
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 11, 12
Prerequisites: Successful completion of German V AP with at least an 83% average
Description: German VI is a capstone course past the AP level for advanced learners of German. The course will provide students with an opportunity to further develop their skills in speaking , writing, and the interpretation of various media forms, especially film and print. Unit assessments will be project- and presentation-based. German will be the exclusive language of instruction in this course.

TITLE: **LATIN I**
Credit Value: 1.00
Course Number: 5313
Offered: SemesterBlock/FCAO
Periods Per Week: 5
Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in English
Description: Latin I is designed to introduce the student to the culture of the Romans, their language, and the basis of their history. The fundamental grammar study includes noun declensions, verb conjugations, and tenses. All units include translations dealing with the culture of the Romans.

The course includes a demonstration of the influence of Latin and the Romans on our modern culture and language. Also, fundamental aspects of Roman culture are presented. Students who seek to understand the English language better and want to strengthen their vocabulary skills could benefit from a course in Latin.

TITLE: **LATIN II**
Credit Value: 1.00
Course Number: 5323
Offered: SemesterBlock/FCAO
Periods Per Week: 5
Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in Latin I
Description: Latin II continues the material of Latin I. Advanced grammar is taught with an emphasis on pronouns, infinitives, and the application of basic grammar skills to translations. Vocabulary is taught with an emphasis on building the English vocabulary skills.

Culturally, the students will explore further topics concerning Roman culture such as medicine, economy, and religion. Readings in the course will also link the mythological founding of Rome to the history of Roman monarchs and the establishment of the Roman Republic.

TITLE: **LATIN III**
Credit Value: 1.00
Course Number: 5333
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 9, 10, 11, 12
Prerequisites: At least a 73% in Latin II
Description: Latin III is a course for the advanced Latin student. Many new grammatical concepts and constructions will be taught. Subjunctive mood of verbs, the ablative absolute, and the various means of expressing purpose, result, exhortation, and temporal relationships will be explored.

Culturally, the development of Roman government from the monarchy to the empire will be explored. The readings in the course will illustrate many episodes in the history of the Roman Republic and the roots of the empire.

TITLE: **LATIN IV**
Credit Value: 1.00
Course Number: 5343
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 10, 11, 12
Prerequisites: At least a 73% in Latin III and/or the permission of the instructor
Description: Latin IV is a course designed for the advanced Latin student who wishes to continue his or her experience of the Latin language and the history and culture of the classical world. This class will complete the study of Latin grammar while vocabulary skills will be augmented. Also, the Latin IV course will investigate several Roman authors such as Julius Caesar and Pliny the Younger, their literary works, and the times in which they lived in some detail.

TITLE: **LATIN V ADVANCED PLACEMENT IN LATIN LITERATURE**
Credit Value: 1.00
Course Number: 5353
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 10, 11, 12
Prerequisites: At least an 83% in Latin IV
Description: Latin V AP is designed to provide advanced high school students with a rich and rigorous Latin course, approximately equivalent to an upper-intermediate (typically fourth or fifth semester) college or university Latin course. Students who successfully complete the course are able to read, understand, translate, and analyze Latin poetry and prose. Despite many similarities, Latin poetry and Latin prose have broadly different features and patterns; thus, the syllabus of required readings includes poetry and prose to ensure that students will be confident in handling both.

For this course, students will read substantial sections of Julius Caesar's *Commentarii de Bello Gallico* and Vergil's *Aenid in* the original Latin, as well as other parts of the literature in English. Students will be expected to demonstrate mastery of linguistic, literary, and cultural concepts within the context of these two significant writings. The course is designed to prepare students for the Advanced Placement test in Latin Literature which may be taken at the discretion of the student.



Business Education



TITLE: **INTRODUCTION TO BUSINESS**
Credit Value: 1.00
Course Number: 6023
Offered:SemesterBlock/FCAO
Periods Per Week: 5
Open to Grades: 9, 10
Prerequisites: None
Description: This course provides an introduction to the dynamic world of business, investing, and personal finance. This course is designed to give students an insight into various aspects of the business environment and the meaning of financial independence. Topics of study include economic decisions and systems, social responsibility of business, business organization, ethics, management and leadership, career planning in the world of high technology, occupational exploration, consumer education, human resources, organizational culture and diversity, real-world banking procedures, budgeting, and investing in the stock market.

Evaluation is based on tests, quizzes, assignments, and projects.

TITLE: **FCAO SAT PREP (Offered Online Only)**
Credit Value: .50
Course Number: 60055
Offered: FCAO
Periods Per Week: 2
Open to Grades: 11, 12
Prerequisites: None
Description: This course will help prepare students to take achievement tests such as the SAT and will sharpen their reading, writing, and math skills. Students will develop thinking strategies, build verbal competence, and enhance mathematics reasoning. In addition, students will acquire essential test-taking strategies.

This course is also offered online in the summer, but there is an associated cost.

TITLE: **BUSINESS WITH PERSONAL FINANCE ADVANCED PLACEMENT (PILOT)**
Credit Value: 1.00
Course Number: 6060
Offered: Semester Block
Periods Per Week: 5
Open to Grade: 10
Prerequisites: Completion of Introduction to Business with at least a 90% and Algebra I with at least an 83%.
Description: This course aligns closely with a college-level introduction to business course. Students explore the business disciplines of entrepreneurship, marketing, accounting, and management, alongside crucial personal financial literacy skills, with a strong emphasis on project-based learning and real-world application. The course prepares students for both college and careers by fostering entrepreneurial thinking, decision-making, communication, and financial stewardship, and includes a culminating AP exam, Business Canvas project, financial advisor project, and the opportunity for an employer-endorsed credential.

TITLE: **COMPUTER BUSINESS APPLICATIONS**
Credit Value: 1.00 or .50
Course Number: 6063 or 6065
Offered: Semester Block
Periods Per Week: 5 or 3
Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: Effectively communicating in business is often a skill and a talent. In this course, students will use a wide variety of computer applications for engaging business and personal projects. Applications used include desktop publishing, spreadsheets, word processing, and presentations. Students will create eye-catching publications, master the art of presentations, and learn how to analyze data in meaningful ways through spreadsheets and graphs. Evaluation is based on the demonstration of creativity, mastery of fundamentals, and timely completion of projects and tasks.

TITLE: **CAREER AND FINANCIAL ESSENTIALS**
Credit Value: .50
Course Number: 6084 or 60083 (Online)
Offered:SemesterBlock/FCAO
Periods Per Week: 2
Open to Grades: 11, 12
Prerequisites: None
Description: This course is required and meets the Pennsylvania Department of Education's Academic Standards for Career Education and Work. Through a project-based approach, the course will complement all disciplines and other standards by developing postsecondary goals regarding career planning and financial literacy. Students will embark on a career search, compose a job application, develop a personal résumé, and participate in simulated interviews. Employability skills and verbal and written communication will also be developed. Students will also learn about consumer skills, debt/credit, budgeting, and taxes.

This course is also offered online in the summer, but there is an associated cost.

TITLE: **ENTREPRENEURSHIP**
Course Number: 6093
Periods Per Week: 3
Prerequisites: None
Credit Value: .50
Offered: Semester Block
Open to Grades: 10, 11, 12

Description: Entrepreneurship class is a course for business-minded students interested in creating their own business or who may want to pursue business ownership in the future. Content includes success and failure examples; characteristics of entrepreneurs; types of ownership, including franchising; location and customers; and funding for a business venture. Developing a business plan, real-world challenges encountered by entrepreneurs, and a company simulation are also included.

Students have the option to register with Seton Hill University to earn college credit through its College in High School (CHS) program.

TITLE: **BUSINESS AND PERSONAL LAW**
Course Number: 6103
Periods Per Week: 5
Prerequisites: None
Credit Value: 1.00
Offered: Semester Block/FCAO
Open to Grades: 11, 12

Description: This course involves the principles of law which apply to daily living. It includes a study of legal rights and duties concerning torts and crimes, contracts, consumer protection law, marriage, divorce, employment law, and intellectual property. Class activities include discussion of current events as they apply to the law, current legal issues and various related legal topics, and analysis of case problems. Class activities and exams constitute the basis for evaluation.

TITLE: **MARKETING MANAGEMENT**
Course Number: 6123
Periods Per Week: 5
Prerequisites: None
Credit Value: 1.00
Offered: Semester Block/FCAO
Open to Grades: 11, 12

Description: Marketing class is designed to teach fundamental marketing concepts applied to products and services, along with the sports and entertainment industries. Real-world examples provide a unique perspective of course concepts. The Marketing Mix elements of product, price, place, and promotion will be used to explore possible topics, including media (concerts, television, movies, video games, theater); recreation (theme parks, travel industry, museums, books); sports (events, professional sports, competitions, players/artists); and entertainment. This course is designed to demonstrate how sales, distribution, and event marketing and communications are important. Evaluation may be based on exams, simulations, and/or projects.

TITLE: **ADVERTISING AND SOCIAL MEDIA**
Course Number: 6134
Periods Per Week: 3
Prerequisites: None
Credit Value: .50
Offered: Semester Block
Open to Grades: 11, 12

Description: This course focuses on the basics of advertising and the use of social media within business. Students will analyze, critique, and apply concepts to traditional advertising forms, as well as to social media outlets. The course enhances the students knowledge and ability to promote a business or product in the ever-changing world of advertising. Assessments are primarily project-based learning, as well as exams.

TITLE: **BUSINESS MANAGEMENT**
Course Number: 6135
Periods Per Week: 3
Prerequisites: None
Credit Value: .50
Offered: Semester Block
Open to Grades: 11, 12

Description: Do you have what it takes to be a manager in today's ever-changing business world? In this course you will learn about the exciting field of business management starting with a manager's role in leading, planning, organizing, staffing, and controlling a business. We'll specifically look at the social, economic, and ethical environments of business. Students will be evaluated through quizzes, tests, case studies, and project-based activities.

TITLE: **ACCOUNTING I** Credit Value: 1.00
Course Number: 6143 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: None
Description: The complete accounting cycle is presented by means of specific principles and situations. Directed practice through carefully planned projects and problems provides the students opportunities to perform accounting tasks commonly found in business. The students will complete accounting cycles for a service and merchandising business. Students will also be introduced to payroll activities.

This course is recommended for students considering further education in business administration or management programs. Evaluation is based on completion of simulated activities and regular testing of theory and application.

TITLE: **ACCOUNTING II** Credit Value: 1.00
Course Number: 6163 Offered: Semester Block
Periods Per Week: 5 Open to Grade: 10, 11, 12
Prerequisites: Successful completion of Accounting I with at least a 75%
Description: Advanced concepts of accounting are applied in this course. Topics include depreciation, amortization, bond accruals, advanced year-end adjustments, and acceptable accounting practices illustrated through the Enron scandal. Time is devoted to further development of automated accounting systems, QuickBooks. This course is recommended for college-bound students entering various business management or business administration programs as well as for the student who plans to enter the world or work immediately after high school.

Evaluation is based on completion of simulated activities and regular testing of theory and application.

Students also have the option to register with Duquesne University to earn three credits through its College in High School (CHS) program.

TITLE: **FCAO INVESTING (Offered Online Only) (Formerly FCAO Personal Finance & Investing)** Credit Value: .50
Course Number: 60073 Offered: FCAO
Periods Per Week: 3 Open to Grade: 11, 12
Prerequisites: None
Description: This course offers a deeper investigation into investing and understanding how to manage, maximize, and grow personal income and savings. Students will be able to function effectively as investors and savers, increasing the likelihood of their future economic success. The course will also help students develop thinking skills that include analyzing real-world situations, economic reasoning, decision making, and problem solving. Students will utilize financial game simulations, competitions, and project-based evaluations to demonstrate understanding.

TITLE: **WEB PAGE DESIGN** Credit Value: .50
Course Number: 6183 Offered: Semester Block
Periods Per Week: 3 Open to Grades: 10, 11, 12
Prerequisites: None
Description: The Web Page Design course is designed to provide students with skills that will make them more marketable in today's competitive business world. The Web page course introduces students to the entire design process, from developing an idea to the finished product. Along the way students will determine a target market, plan out the design, and then apply design techniques. Using a state-of-the-art software package, students will create their own graphics, learn how to make animated graphics, demonstrate essential design and layout techniques, and manage an entire Web site with proper storage and hyperlink navigation.

TITLE: **BUSINESS EXPERIENCE PRACTICUM** Credit Value: 1.00
Course Number: 6175 or 6176 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 11, 12
Prerequisites: Completion of three business courses with at least an 85%
Description: Students will embark on project-based learning experiences as part of a company (Foxes Den) associated with Fox Chapel Area High School. Students will be able to apply advanced learning within the business curriculum through authentic experiences. Students will have the opportunity to actually manage, run, and partake in a legitimate business endeavor. Students will select a preferred area of concentration* to study: operations, marketing, and advertising; finance and accounting; and brand management. Evaluation is based on project-based learning concepts and collaboration, as well as on-the-job performance.

**Area of concentration cannot be guaranteed.*

Business Education Seal of Excellence

Awarded to students who:

- Earn 4.5 credits or complete six courses within the business department curriculum;
- Maintain a 3.0 QPA within business education; and
- Complete three out of the six business education pillars (please see your school counselor or any member of the business education department for more details).

The Business Seal of Excellence is designed to reward academic development and success within the business, computer, and information technology curriculum and instruction. The business curriculum has been aligned to mirror the progression and structure of collegiate coursework. Students who advance through will have a solid foundation to which to build upon for their postsecondary goals. Students are able to earn a Seal of Excellence for graduation by completing course/credit requirements, meeting a diversified curriculum, and maintaining the set QPA within the business curriculum. Seniors may apply any time during the year up until the end of the third quarter. Juniors may apply during the second semester.



Family and Consumer Sciences

TITLE: **FOREIGN AND GOURMET FOODS**
Credit Value: 1.00
Course Number: 7083
Offered: Semester Block
Periods Per Week: 5
Open to Grade: 11, 12
Prerequisites: None

Description: This essential course offers the opportunity to learn basic food preparation skills and daily diet planning, while following accepted nutritional guidelines. Units on pastries and yeast breads, consumerism in food shopping, and the study of foreign and regional food will be presented primarily through lab experiences in food preparation. An exploration of careers in the food industry allows students and insight into vocational areas. Lab participation forms the basis of the grading system, plus quiz grades, classwork, and special projects including mini-research activities about the countries studied. Classroom study is accompanied by laboratory experience, demonstration, video, and skills practice to address the goals of lifelong health. Due to the seasonal nature of some units, projects may vary each semester.

TITLE: **PRESCHOOL LABORATORY***
Credit Value: 1.00
Course Number: 7143
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 11, 12
Prerequisites: None

Description: Preschool Laboratory is an enjoyable course designed for young men and women who are interested in an opportunity to work with children now and in the future. The course emphasizes the study of 3-, 4-, and 5-year-olds by providing an opportunity for students to develop, plan, and teach for one week in a real preschool. Grading is based on daily attendance, participation, planning, and teaching. The final project is the completion of a memory book for a preschool child.

*The Preschool course is offered in two levels. This allows a student to take the same course once each year for up to two years. A written curriculum outlines the higher level of material taught and higher expectations required of students at each level.



Technology Education

TITLE: **INTRODUCTION TO TECHNOLOGY SYSTEMS (TSA)** Credit Value: 1.00
Course Number: 7203 or 7202 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: The Introduction to Technology Systems (TSA) course is a project-based program designed to provide students with a broad knowledge and competency base in STEAM-related (Science, Technology, Engineering, the Arts, and Mathematics) fields. Students will work both independently and in collaborative groups to complete projects in the communication, construction, manufacturing, and transportation subsystems of technology education. Curricular activities and competitive events will focus on problem solving, communication, and the engineering design process.

TITLE: **ADVANCED TECHNOLOGY SYSTEMS (TSA) (LEVELS 2, 3, 4)*** Credit Value: 1.00 or .50
Course Number: 7204 or 7205 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 10, 11, 12
Prerequisites: Successful completion of Introduction to Technology Systems
Description: The Advanced Technology Systems (TSA) course will allow students to further advance their understanding and mastery of the technology subsystems. The instructor will provide learning opportunities and hands-on projects to facilitate collaborative creativity, teamwork, research, and design skills. Students will have the opportunity to enter their portfolios, prototypes, and projects into the local and national TSA competitions. This course is recommended for TSA club members and officers.

*Please see * on page 54 for information on Levels 3 and 4.

TITLE: **INTRODUCTION TO MATERIALS PROCESSING** Credit Value: 1.00
Course Number: 7213 or 7212 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: Introduction to Materials Processing will introduce students to the fundamental skills, ideas, materials, and machinery utilized in the exciting field of industrial design. Through hands-on experiences and problem-centered STEAM (Science, Technology, Engineering, the Arts, and Mathematics) activities, students will discover how each component of the design process impacts another.

Activities will center upon practical design and building methods that involve students in the process of finding realistic solutions to a variety of design challenges. Students will work with the mediums of wood and plastics to accomplish their objectives.

Emphasis will be placed on the safe use of tools and machinery, understanding of material processes, and the power of ingenuity and creativity in the design process.

TITLE: **ADVANCED MATERIALS PROCESSING (LEVELS 2, 3, 4)*** Credit Value: 1.00 or .50
Course Number: 7223 or 7233 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 10, 11, 12
Prerequisites: Successful completion of Introduction to Production Systems or Introduction to Materials Processing
Description: Through hands-on, project-based learning experiences and creative problem-centered activities, students will have the opportunity to build on their existing knowledge of industrial design and materials processing. Interest-based activities will focus on the concepts of product design, mass production, marketing, ergonomics, computer-generated project design, and advanced construction techniques. Fundamental skills on machinery and Computer Numerical Control (CNC) equipment are required, and safe usage of these tools will be heavily stressed.

*Please see * on page 54 for information on Levels 3 and 4.

TITLE: **INTRODUCTION TO ROBOTIC ENGINEERING** Credit Value: 1.00
Course Number: 7263 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: This course introduces students to the field of robotics with an emphasis on design, prototyping, and programming. Students will construct and troubleshoot structural, mechanical, and drive systems, and create programs to solve various open-ended design challenges and problem statements autonomously. The students will be introduced to various software, hardware platforms, and 21st century fabrication tools to develop their spatial awareness, problem solving, and tactile abilities.

TITLE: **ROBOTIC ENGINEERING (LEVELS 2, 3, 4)*** Credit Value: 1.00 or .50
Course Number: 7273 or 7283 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 10, 11, 12
Prerequisites: Successful completion of Introduction to Robotic Engineering or instructor's permission
Description: This course is a continuation of Introduction to Robotics. Students will be challenged to design, build, and control their own robots, as well as create autonomous programming to solve various tasks. The course follows the engineering design process and focuses on advanced fabrication techniques, time management, and documentation. Students will participate in various competition-style events and learn about potential careers in both manufacturing and engineering.

*Please see * on page 54 for information on Levels 3 and 4.

TITLE: **INTRODUCTION TO GRAPHIC COMMUNICATIONS TECHNOLOGY** Credit Value: 1.00
Course Number: 7313 or 7314 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: This course will introduce students to a variety of ways in which the graphic communications industry produces a final product. Students will learn to create, manipulate, and process vector images for digital print, vinyl decal, laser engraved, and screen printing outputs. In this project-driven course, students will work with industry-standard software and equipment to learn digital design and layout techniques while producing portfolio-quality apparel, large format print, and branded media.

TITLE: **ADVANCED GRAPHIC COMMUNICATIONS TECHNOLOGY (LEVELS 2, 3, 4)*** Credit Value: 1.00
Course Number: 7323 or 7324 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 10, 11, 12
Prerequisites: Successful completion of Introduction to Graphic Technology
Description: In this advanced course, the students will have an opportunity to further develop and advance their skills in any phase of the graphic communications industry. Through their work duties on various publications and projects, students will have covered a variety of job-oriented skills which can be utilized in the printing industry.

*Please see * on page 54 for information on Levels 3 and 4.

TITLE: **INTRODUCTION TO ENGINEERING/DRAWING/CAD TECHNOLOGY** Credit Value: 1.00
Course Number: 7353 or 7352 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: Introduction to Engineering/Drawing/CAD Technology will introduce students to the dynamic fields of engineering and engineering technology. Through the design processes, students will develop solutions to problems and create functional prototypes on industry-standard software and 21st century machinery.

The class takes place in an MIT-certified Fabrication Laboratory that is the center for all "Digital Fabrication" tools like **3D printers, laser engravers, Computer Numerical Controlled (CNC) machines, and vinyl cutters**. The main areas of focus are problem solving, parametric 3-dimensional modeling, computer aided machining, and technical communication, as well as an overview of the many branches of engineering careers.



TITLE: **ENGINEERING & INNOVATION** Credit Value: 1.00 or .50
Course Number: 7363 or 7373 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 10, 11, 12
Prerequisites: Successful completion of the Introduction to Engineering/Drawing/CAD Technology course with a "B" or higher; or any combination of two introductory technology education courses or an introductory and advanced level course of the same discipline; or an advanced level science and math course
Description: Engineering & Innovation is a course that is appropriate for individuals with a strong interest in any STEM (Science, Technology, Engineering, and Mathematics) field. Students will apply principles of design to solve open-ended, real-world problems. Through research, they will develop skills needed to enter an engineering or other technical-related field in post-secondary education.

A student-driven project will be conducted in teams to select, define, and solve a problem. Following the Fox Chapel Area design process, they will research, plan, create, test, and present a solution. This project will include working prototypes and a presentation.

Course work will explore 21st century digital fabrication tools and computer aided design. These skills will be used as a foundation for prototyping solutions. Digital fabrication tools that will be examined include 3D printing, laser engraving, CNC technology, etc.

*Please see * on page 54 for information on Levels 3 and 4.

TITLE: **INTRODUCTION TO ELECTRONICS** Credit Value: 1.00
Course Number: 7413 or 7412 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: Introduction to Electronics is designed to provide students with a foundation of all aspects of electronics and electricity. Areas of focus include, but are not limited to, parallel and series circuits, AC and DC power supplies, instrumentation, circuit materials, magnetism, transformers, semiconductors, and signals. Students will have an opportunity learn in a hands-on lab where they will design and construct circuits and learn soldering techniques. Skills developed during the class include reading resistors, capacitors, and transistors; etching printed circuit boards; and working with LED lighting and integrated circuits.

TITLE: **ADVANCED ELECTRONICS (LEVELS 2, 3, 4)***
Credit Value: 1.00
Course Number: 7423
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 10, 11, 12
Prerequisites: Successful completion of Introduction to Electronics and/or teacher recommendation
Description: The second-level course will further develop knowledge of circuitry with the addition of programming of electronics to meet everyday needs. Programming will occur using an open-sourced microcontroller prototyping platform to create interactive electronic objects. Topics to be covered include application design, electronics in everyday life, automated electronics, and electronic problem solving. Students will achieve mastery of electronics through project-based, hands-on learning.

*Please see * below for information on Levels 3 and 4.

TITLE: **COOPERATIVE BUSINESS WORK EXPERIENCE**
Credit Value: 1.00
Course Number: 6191 or 6192
Offered: Semester Block
Periods Per Week: 5 or 3
Open to Grade: 12
Prerequisites: Teacher recommendation
Description: Students will gain work experience during their school day when placed as paid employees. Possible placements can include the high school, district administration office, or within the local business community. Students will provide day-to-day entry-level retail, accounting, or clerical support and gain insight into the world of work. Students must obtain approval from the business teacher supervising this program prior to enrollment.

Evaluation is based upon on-the-job performance as determined by the employer and journals and time logs submitted to the supervising teacher.

***LEVELS 3 AND 4 – The following advanced technology education courses are offered in three levels: Advanced Technology Systems, Advanced Materials Processing, Advanced Robotic Engineering, Advanced Graphic Communications Technology, Engineering and Innovation, and Advanced Electronics. This allows a student to take the same advanced course once each year for up to three years. A written curriculum outlines the higher level of material taught and higher expectations required of students at each level.**



Art

All students are permitted to sign up for two art classes per year. If a student's individual goal determines that additional classes are needed, then the following procedure must be met: 1.) The student must gain department chairperson approval and 2.) The student must have no lower than a "B" in any previous art class.

TITLE: **ART HISTORY** Credit Value: .50
Course Number: 7563 Offered: SemesterBlock/FCAO
Periods Per Week: 2 Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: Art History is designed to give the student a general overview of art through the ages. From prehistory to present day, this course is taught through a combination of lecture, discussion, research, small-group activities, and hands-on experiences. Students are given numerous opportunities to sample the art techniques from various time periods to enrich their knowledge through tactile experience.

TITLE: **ART HISTORY ADVANCED PLACEMENT** Credit Value: 1.00
Course Number: 7564 Offered: Semester Block
Periods Per Week: 5 Open to Grades: 10, 11, 12
Prerequisites: Strongly recommended: Accelerated World Civilizations, World History AP, OR one studio art elective (any media) with an 83% or above
Description: Art History AP is designed to be the equivalent of a college-level introductory art history class. In this course, students will study 250 artworks from around the world with the intention of understanding how these artworks reflect the culture and time in which they were created. Students will become familiar with a range of materials, processes, and approaches, and will develop an understanding of how art-making is shaped by traditions and social changes. Emphasis will be placed on understanding how to meaningfully interpret art objects, and expressing understanding through writing and discussion. Methods of study may include lectures, reading, and research. While the majority of the content is focused on significant artworks from western civilizations, the course will also include limited study of artwork from non-western societies. This course prepares students to take the AP Art History Exam for college credit.

TITLE: **CERAMICS AND FIBERS*** Credit Value: 1.00 or .50
Course Number: Level I – 7521 or 7522 and Levels II/III/IV – 7523 or 7524 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 9, 10, 11, 12
Prerequisites: None for Level I; at least a 73% to qualify to take Level II, and at least an 83% for Levels III and IV
Description: This course guides students through ceramics and applied art forms, fostering technical skills, creative expression, and cultural understanding. Level I introduces hand-building techniques and basic wheel-throwing. Level II adds advanced processes like mold use and surface treatments, encouraging experimentation. Level III emphasizes self-directed, thematic projects with cultural and personal research, incorporating larger-scale designs. Level IV focuses on mastery and portfolio development, integrating critical analysis and preparing for advanced studies or professional pursuits. Applied art forms, such as fibers and decorative sculpture, supplement projects throughout to balance kiln schedules. Across all levels, students create, critique, and refine work while exploring connections between personal and cultural contexts in a collaborative student environment.

*Please see * on page 58.

TITLE: **STUDIO ART ADVANCED PLACEMENT – CERAMICS AND FIBERS** (3D DESIGN)** Credit Value: 1.00
Course Number: 7577 Offered: Semester Block
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Must have completed Ceramics and Fibers Levels I, II, and III with at least a 90%. All students requesting admission to an AP Studio Art course are required to submit a portfolio for departmental review before scheduling.
Description: This advanced course challenges students to develop a portfolio demonstrating mastery in three-dimensional art forms such as sculpture, ceramics, and applied arts. Through sustained investigations, students refine personal, conceptual, and technical approaches while creating a cohesive body of work that reflects critical thinking and innovative problem solving.

Guided by instructor feedback and peer critique, students explore connections between personal themes and broader cultural or historical contexts. This course demands significant independent work (5+ hours per week) and commitment, preparing students to submit their portfolios for national evaluation by the College Board in May, with the potential to earn college credit. Students interested in this rigorous course should consult with their art teacher before enrolling. Summer assignments may be required. Highly motivated art students ready to push their creative boundaries are encouraged to register.

**Please see ** on page 58.

TITLE: **COMPUTER ART***
Credit Value: 1.00 or .50
Course Number: Level I – 7511 or 7512 and Levels II/III/IV – 7513 or 7514
Offered: Semester Block
Periods Per Week: 5 or 3
Open to Grades: 9, 10, 11, 12
Prerequisites: None for Level I; at least a 73% to qualify to take Level II, and at least an 83% for Levels III and IV
Description: Students will learn to draw on the computer using Wacom tablets and various drawing software, including Adobe® Photoshop® and Adobe® Illustrator®. Students are required to create *original* pieces of artwork using the Internet only as a reference. Computer Art will expose students to real career experiences in the art world. Computers will help students realize how designers generate electronic images which can be used for logos, letterhead, advertisements, magazine layouts, posters, packaging, etc. Evaluation is based on creativity, skill development, and craftsmanship.

*Please see * on page 58.

TITLE: **STUDIO ART ADVANCED PLACEMENT – COMPUTER ART** (2D DESIGN)**
Credit Value: 1.00
Course Number: 7579
Offered: Semester Block
Periods Per Week: 5
Open to Grade: 12
Prerequisites: Must have completed Computer Art I, II, and III and Drawing and Painting Level I with at least a 90%. All students requesting admission to an AP Studio Art course are required to submit a portfolio for departmental review before scheduling. Please note, summer inquiry development will be required.
Description: AP Studio Art: 2D Design with an emphasis in Computer Art is for the serious Computer Art student who is highly self-motivated and committed to building a superior portfolio for nationally-based evaluation through the College Board system. This semester course is a college-level exploration of design principles within a topic of the student's choice. The expectation is to investigate and exhaust this topic through the development of practice, experimentation, and revision. A digital sketchbook is required for students to document this process of research, development of ideas, and written reflections of personal work. Fifteen final works of art that show the development of this sustained investigation of the topic are required for this course and the final portfolio. This course demands significantly more time outside of the classroom (4+ hours per week) than the typical high school art course. At least five new pieces of AP portfolio quality need to be completed by the end of the first nine weeks to remain on pace.

**Please see ** on page 58.

TITLE: **DRAWING AND PAINTING***
Credit Value: 1.00 or .50
Course Number: Level I – 7541 or 7542 and Levels II, III, and IV – 7543 or 7544
Offered: Semester Block
Periods Per Week: 5 or 3
Open to Grades: 9, 10, 11, 12
Prerequisites: None for Level I; at least a 73% to qualify to take Level II
Description: Drawing and Painting is designed to develop foundation art skills in Levels I and II. These skills are then applied to more complex assignments that emphasize individual expression and conceptual ideas in Levels III and IV or Portfolio and AP Studio Art. Drawing from observation is a critical part of the learning process, with an emphasis on sketchbook habits, the elements and principles of art, strong compositions, technical mastery, and the ability to evaluate artwork effectively. Level I focuses on traditional drawing methods with an emphasis on line, shape, composition, value, color, and techniques that improve drawing accuracy. Students explore a variety of media and approaches to strengthen their observational and technical skills. Sketchbooks are used as a tool for self-discovery, reflection, and visual communication, as well as for pre-assessments to gauge student understanding. Level II builds upon Level I foundations through an in-depth study of color theory using watercolor and acrylic painting. Students learn to manipulate a variety of materials and may explore lettering, printmaking, mixed media, perspective, and both figure and observational drawing. Sketchbook work is used to explore new topics and viewpoints, document observational studies from everyday life, and inspire fresh directions in personal artwork. Levels III and IV emphasize independent, theme-based study. Students develop personal concepts and bodies of work using materials and techniques of their choice, based on individual readiness and artistic interests. Regular sketchbook practice is expected and serves as a starting point for studies, idea development, and the creation of new projects.

*Please see * on page 58.

TITLE: **PORTFOLIO/PRE-AP STUDIO ART – DRAWING AND PAINTING****
Credit Value: 1.00
Course Number: 7572 or 7573
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 11, 12
Prerequisites: Completion of Levels I and II Drawing and Painting with at least an 80% in each course. A portfolio is required for course approval, with requirements available through the Drawing and Painting teacher. The portfolio must demonstrate understanding of observational drawing, composition, shading, and use of color.
Description: This course is designed for the serious art student willing to accept increased rigor in order to grow as an artist, with possible plans to pursue art beyond high school. It is intended for students preparing to develop a cohesive body of work for college applications or for those planning to enroll in a Pre-AP Studio Art course. Students explore a range of materials and conceptual themes during the first nine weeks, experimenting with personal interests and artistic voice. They then transition into research and portfolio preparation, focusing on building a body of work centered around an individualized line of inquiry. Students are expected to work independently both inside and outside of class, demonstrating strong self-direction and commitment. The course includes advanced studies in 2D art and design, mark making, exposure to various artists, materials, and techniques, and participation in critiques to analyze and communicate about works of art. At the end of the first nine weeks, students declare enrollment for the Drawing and Painting AP course or continue with the Level III Drawing and Painting curriculum.

**Please see ** on page 58.

TITLE: **STUDIO ART ADVANCED PLACEMENT – DRAWING AND PAINTING** (2D DESIGN OR DRAWING)**
Credit Value: 1.00
Course Number: 7575
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 11, 12
Prerequisites: Must have completed Drawing and Painting Levels I and II and Pre-AP with at least a 90%. All students requesting admission to an AP Studio Art course are required to submit a portfolio for departmental review before scheduling. Please note, summer assignments will be required.
Description: AP Studio Art: 2D Design (with an emphasis in 2D or Drawing) is for the highly motivated student who is committed to building a superior portfolio for national evaluation through the College Board. This college-level course emphasizes the sustained investigation of a topic of the student's choice, explored through practice, experimentation, and revision. Students are expected to develop their body of work both inside and outside of the classroom. Artwork should be visibly constructed and refined throughout the course — not completed entirely outside of class – to allow for teacher feedback, peer critique, and authentic process documentation. A sketchbook is required for research, idea development, visual experimentation, and written reflection on personal progress. Students will produce 15 final works demonstrating the evolution of their sustained investigation, along with five selected works for portfolio submission. **At least 10 works should be completed by the end of this course.** This course demands significant commitment beyond class time – typically 5-10 hours per week – to maintain steady portfolio progress. By the end of the first nine weeks, students are expected to have completed at least five AP-quality pieces to remain on pace for final portfolio submission.

**Please see ** on page 58.

TITLE: **JEWELRY AND GLASS***
Credit Value: 1.00 or .50
Course Number: Level I – 7531 or 7532 and Levels II/III/IV – 7533 or 7534
Offered: Semester Block
Periods Per Week: 5 or 3
Open to Grades: 9, 10, 11, 12
Prerequisites: None for Level I; at least a 73% to qualify to take Level II, and at least an 83% for Levels III and IV
Description: In this course, students will design and fabricate wearable artwork in metal, glass, and mixed media. Level I students will focus on foundational skills such as cutting, soldering, forming, etching, casting, enameling, and mosaic. Advanced students will further their creative investigations and technical knowledge with assignments in stone setting, cold connections, wax casting, chain making, and advanced coloration techniques. Work is evaluated based on design, creativity, craftsmanship, technique, challenge, and quality of finish.

*Please see * on page 58.

TITLE: **STUDIO ART ADVANCED PLACEMENT – JEWELRY AND GLASS** (3D DESIGN)** Credit Value: 1.00
Course Number: 7578 Offered: Semester Block
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Must have completed Jewelry and Glass I, II, and III with at least a 90%. All students requesting admission to an AP Studio Art course are required to submit a portfolio for departmental review before scheduling. Please note, summer assignments may be required.
Description: AP Studio Art: 3D Design with an emphasis in Jewelry and Glass is for the serious art student who is highly self-motivated and committed to building a superior portfolio for nationally-based evaluation through the College Board system. This semester course is a college-level exploration of design principles within the topic of a student's choice. The expectation is to investigate and exhaust this topic through a body of work demonstrating practice, experimentation, and revision. A sketchbook is required for students to document research, development of ideas, and written reflections of personal work. Fifteen final works of art that show the development of this sustained investigation are required for this course and the final portfolio. This course demands significantly more time outside of the classroom (4+ hours per week) than the typical high school art course. Enrollment in an additional jewelry course during the spring semester is strongly encouraged for ongoing development of the AP Portfolio.
**Please see ** on page 58.

TITLE: **PHOTOGRAPHY*** Credit Value: 1.00 or .50
Course Number: Level I – 7551 or 7552 and Level II, III– 7553 or 7554 Offered: Semester Block
Periods Per Week: 5 or 3 Open to Grades: 10, 11, 12
Prerequisites: None for Level I and at least a 73% to qualify to take Level II
Description: Photography is a course for students who want to further their understanding of photography as an art form. Students will learn composition and lighting, creative problem solving, manual operations of the digital SLR camera, and editing opportunities through Adobe Photoshop. In advanced levels, students will further their knowledge of camera functions and postprocessing, as well as developing their creative voice and personal photographic style. Interest, aptitude, and motivation are key factors to students' success in this course. Student work is assessed on creativity, composition, craftsmanship, and project requirements.
*Please see * on page 58.

TITLE: **STUDIO ART ADVANCED PLACEMENT – PHOTOGRAPHY** (2D DESIGN)** Credit Value: 1.00
Course Number: 7577 Offered: Semester Block
Periods Per Week: 5 Open to Grade: 12
Prerequisites: Must have completed Photography I and II with at least a 90%. All students requesting admission to an AP Studio Art course are required to submit a portfolio for departmental review before scheduling. Please note, summer assignments may be required.
Description: AP Studio Art: 2D Design with an emphasis in Digital Photography is for the serious photography student who is highly self-motivated and committed to building a superior portfolio for nationally-based evaluation through the College Board system. This semester course is a college-level exploration of design principles within a topic of the student's choice. The expectation is to investigate and exhaust this topic through the development of practice, experimentation, and revision. A digital slideshow is required for students to document this process of research, development of ideas, and written reflections of personal work. Fifteen final works of art that show the development of this sustained investigation of the topic are required for this course and the final portfolio. This course demands significantly more time outside of the classroom (4+ hours per week) than the typical school photography course. At least five new pieces of AP portfolio quality need to be complete by the end of the first nine weeks to remain on pace. Students in this course are expected to complete their 2D portfolio in its entirety by the end of the semester.
**Please see ** below.

***The following studio art courses are offered in multiple levels: Computer Art, Ceramics and Fibers, Jewelry and Glass, Drawing and Painting, and Photography. This allows a student to take the same course (one time per level) once each year, providing the grade prerequisite has been made. A written curriculum outlines the higher level of material taught and higher expectations required of students at each level.**

****All students requesting admission to an AP Studio Art course are required to submit a portfolio for departmental review before scheduling. Please note the AP Studio courses are offered first semester only and it is strongly recommended that students sign up for a second semester three-day or five-day advanced level to complete the portfolio by the early May submission date. The College Board Portfolio fee is approximately $100, which is the responsibility of the student, and is due by early November.**

Media

TITLE: **VIDEO PRODUCTION**
Credit Value: .50
Course Number: 7584
Offered: Semester Block
Periods Per Week: 3
Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: In this course, students will use the video production process to plan, film, and edit their own video content. Students will use their personal device, along with professional cameras, microphones, tripods, gimbals, green screens, and lights. Assessments are entirely project-based, offering hands-on opportunities to produce an array of videos, including a short film, a TV studio tour, a multicamera interview, a promotional sports video, a commercial, and a recut movie trailer. Additional course topics include storyboarding, video composition, camera framing, transitions/cuts, camera movement, b-roll footage, talking heads, advertising, copyright, fair use, and Adobe Premiere Pro editing tools.

TITLE: **ADVANCED VIDEO PRODUCTION**
Credit Value: 1.00
Course Number: 7603
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 10, 11, 12
Prerequisites: Successful completion of Video Production with at least a 90%
Description: This course builds on the foundational skills developed in Video Production. Students will collaborate to create video content for Swift Fox Media's YouTube channel and Instagram account. Using professional audio-video recording equipment, they will film interviews, talking heads, b-roll footage, school activities, and content tailored for social media. Projects will be edited using Adobe Premiere Pro and After Effects. Assessment will focus on students' ability to produce polished, creative, high-quality videos that are engaging and completed on time, while demonstrating effective teamwork on group projects and initiative on individual assignments.

TITLE: **ON-CAMERA PERFORMANCE**
Credit Value: .50
Course Number: 7604
Offered: Semester Block
Periods Per Week: 2
Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: This course is designed to introduce students to the fundamental skills and techniques required for successful on-camera work in various visual media formats. Students will research topics, write scripts, and learn on-camera acting and improvisation techniques, while experimenting with different genres and styles of storytelling to enhance creative expression. Students will learn, first-hand, how to improve their communication skills while exploring nuances like vocal projection, body language, facial expressions, etc. Students will also learn some technical aspects like camera operation, framing, shot composition, lighting, and sound. The class will cover a variety of topics associated with on-camera performance and will provide numerous exercises in class where students will perform on camera.

TITLE: **VIDEO JOURNALISM**
Credit Value: .50
Course Number: 7605
Offered: Semester Block
Periods Per Week: 2
Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: In this course, students will develop their on-camera talent through a variety of assignments where they will be recorded on camera. They will write scripts, read from a teleprompter, film their classmates, and edit their projects using Adobe Premiere Pro. Using professional microphones and cameras, students will produce interviews, news reports, and other types of informative and engaging video content.

Music

TITLE: **UNIFIED MUSICAL EXPLORATIONS**
Credit Value: .50
Course Number: 7613
Offered: Semester Block
Periods Per Week: 2
Open to Grade: 9, 10, 11, 12
Prerequisites: None
Description: Do you love certain pieces of music, but aren't sure why? This course explores popular, world, and art music, offering students a foundation in the elements of music and how they shape our listening experiences. Through listening, analysis, and discussion, students will discover music from diverse cultures, genres, and historical periods. Optional performance projects allow students to experiment with music-making, deepening their appreciation and understanding of music's role in society and personal identity.

TITLE: **SYMPHONIC BAND**
Credit Value: 1.00
Course Number: 7646 or 7645
Offered: Full Year Block
Periods Per Week: 3 One Semester, 2 One Semester
Open to Grades: 9, 10, 11, 12
Prerequisites: Prior experience on brass, woodwind, or percussion and acceptance by the director
Description: The Symphonic Band is designed for intermediate and advanced instrumental students. The class will focus on learning and preparing musical repertoire from different time periods as well as improving playing skills through exercises in technique and tone production. The Symphonic Band will participate in several concerts and special performances throughout the year. **Attendance at rehearsals and concerts is mandatory.**

TITLE: **ORCHESTRA**
Credit Value: 1.00
Course Number: 7674 or 7675
Offered: Full Year Block
Periods Per Week: 3 One Semester, 2 One Semester
Open to Grades: 9, 10, 11, 12
Prerequisites: Prior experience on a string instrument
Description: Orchestra is designed for intermediate and advanced string players to experience the joy of creating music as an ensemble and sharing it throughout the community both locally and regionally. The class will focus on learning and preparing musical repertoire from Bach to the Beatles. Students will develop their musicianship skills through ensemble playing and further individual playing skills through technical exercises and sight-reading. Performance opportunities will include school concerts, festivals, solo and chamber music recitals, and travel. **Attendance at rehearsals and concerts is mandatory.**

TITLE: **PIANO CLASS**
Credit Value: .50
Course Number: 7683
Offered: Semester Block
Periods Per Week: 3
Open to Grades: 9, 10, 11, 12
Prerequisites: Students should have no prior experience or training on the piano
Description: Have you always wanted to learn to play piano? Piano Class is designed for both beginners and those looking to build on their skills. The class is all about getting hands-on with the piano, learning how to read music, and even exploring a bit of music theory and history along the way. With a mix of technical instruction and individual practice time, you'll be set up to play confidently and develop your unique musical voice.

TITLE: **MUSIC TECHNOLOGY**
Credit Value: 1.00 or .50
Course Number: 7703 or 7693
Offered: Semester Block
Periods Per Week: 5 or 3
Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: Welcome to the world where tech meets tunes! In this course, you'll explore the digital landscape of modern music creation, from sound design to digital audio workstations to recording, mixing, and producing your own tracks. No need to be a musician – just bring your creativity and love of music, and you'll learn to turn ideas into professional-quality audio. We'll cover essentials like MIDI programming, virtual instruments, beat-making, audio effects, and sound editing. Ready to create, produce, remix? Plug in, and let's make some music?

TITLE: **MUSIC THEORY ADVANCED PLACEMENT**
Credit Value: 1.00
Course Number: 7763
Offered: Semester Block
Periods Per Week: 5
Open to Grades: 11, 12
Prerequisites: Acceptance by instructor only
Description: The Music Theory Advanced Placement course is designed to cover musical materials and processes equivalent to those expected in a first-year college music theory course. Students will develop musical terminology, notational and compositional skills, analytical skills, and aural skills throughout the semester. This course lends itself to students who might be considering music as a career, as well as students interested in learning about different facets of music composition. The class is designed to help students prepare for the AP exam.

TITLE: **CONCERT CHOIR**
Credit Value: 1.00
Course Number: 7863 and 7864
Offered: Full Year Block
Periods Per Week: 3 One Semester, 2 One Semester
Open to Grades: 9, 10, 11, 12
Description: Do you like to sing? Concert Choir is open to all singers in grades 9 through 12 who enjoy singing and working in a group. This co-curricular course is designed for students to apply musical skills as they continue to create and experience music in a large musical ensemble of mixed voices. Students will learn skills for vocal technique, reading music notation, and continue to develop an understanding and appreciation of the differences in music from other cultures and the connections music brings to people. **Attendance at rehearsals and concerts is mandatory.**

TITLE: **MADRIGAL SINGERS**
Credit Value: 1.00
Course Number: 7903 and 7904
Offered: Full Year Block
Periods Per Week: 3 One Semester, 2 One Semester
Open to Grades: 10, 11, 12
Prerequisites: Acceptance by instructor
Description: Madrigal Singers is a highly-select small ensemble dedicated to choral music written for mixed voices. The course provides the opportunity for the advanced singer to learn and perform more challenging and diverse repertoire. Emphasis will be placed on tone production, musicality, sight-reading, and developing the advanced singer. The ensemble's many different styles of repertoire include everything from classical works to 20th century jazz compositions. Each participant must also be a member of the Concert Choir. **Attendance at rehearsals and concerts is mandatory.**

TITLE: **HISTORY OF ROCK AND ROLL**
Credit Value: .50
Course Number: 7623
Offered: SemesterBlock/FCAO
Periods Per Week: 2
Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: Do you know everything about Radiohead or the Beatles? We bet that you don't. This course integrates the history of the United States from the 1950s on with the history of American popular music. Students will consider how genres such as rock and roll, pop, folk, Latin, and hip hop have both reflected and informed the cultural, social, and political developments that have occurred in the past seven decades of U.S. history. Students will trace the history of rock and roll and understand the influences it had on major historical events within the United States.

TITLE: **WORLD MUSIC**
Credit Value: .50
Course Number: 7633
Offered: Semester Block
Periods Per Week: 3
Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: Does your play list include K-Pop, Bollywood songs, and Afro-Pop? Do you love rap, jazz, and rock and roll? This course explores music as an aspect of human culture focusing on selected non-Western music styles such as those from Asia, Africa, and the Americas. Students study local, regional, national, and global values of music; become familiar with traditional, religious, folk art, and popular musical styles of several countries; and acquire active listening skills and a mastery of music terms.

Health, Safety and Physical Education

TITLE: **DISCOVERY HEALTH A**
Credit Value: .50
Course Number: 8021 or 80021
Offered: SemesterBlock/FCAO
Periods Per Week: 2
Open to Grades: 9, 10
Prerequisites: Must be taken in conjunction with Physical Education 9/10 A
Description: The goal of this course is to create an environment where students can apply wellness concepts to the study of the human body. Utilizing basic facts about the body systems, students will discover how daily decisions can impact the operation of the human body. The primary focus will be on the following body systems: skeletal, muscular, nervous, endocrine, and reproductive. This course meets both national and Pennsylvania state standards for health, safety, and physical education.

This course is also offered online during the summer for a cost to allow more flexibility in the student's schedule.

TITLE: **PHYSICAL EDUCATION 9/10 A**
Credit Value: .50
Course Number: 8023
Offered: Semester Block
Periods Per Week: 3
Open to Grades: 9, 10
Prerequisites: Must be taken in conjunction with Discovery Health A
Description: Students will be involved in physical education units with the following focus areas: initiatives, aquatic fundamentals, personal fitness (fitness center), team sports, and recreational sports. Students will also participate in fitness testing and dance for art and fitness units. This course meets both national and Pennsylvania state standards for health, safety, and physical education.

TITLE: **DISCOVERY HEALTH B**
Credit Value: .50
Course Number: 8121 or 80121
Offered: SemesterBlock/FCAO
Periods Per Week: 2
Open to Grades: 9, 10
Prerequisites: Must be taken in conjunction with Physical Education 9/10 B
Description: The goal of this course is to create an environment where students can apply wellness concepts to the study of the human body. Utilizing basic facts about the body systems, students will discover how daily decisions can impact the operation of the human body. The primary focus will be on the following body systems: cardiovascular, respiratory, urinary, lymphatic, integumentary, and digestive. This course meets both national and Pennsylvania state standards for health, safety, and physical education.

This course is also offered online during the summer for a cost to allow more flexibility in the student's schedule.

TITLE: **PHYSICAL EDUCATION 9/10 B**
Credit Value: .50
Course Number: 8123
Offered: Semester Block
Periods Per Week: 3
Open to Grades: 9, 10
Prerequisites: Must be taken in conjunction with Discovery Health B
Description: Students will be involved in physical education units with the following focus areas: initiatives, personal fitness (free weights), team sports, and recreational sports. Students will also participate in a triathlon unit. This course meets both national and Pennsylvania state standards for health, safety, and physical education.

TITLE: **ADVENTURE SPORTS**
Credit Value: .50
Course Number: 8213
Offered: Semester Block
Periods Per Week: 2
Open to Grades: 11, 12
Prerequisites: None
Description: Students will engage in activities that will increase their knowledge of the importance of lifetime physical activity for personal health and well-being. Adventure Sports is designed to promote and teach skills related to "adventure-" type activities. Daily activities will be challenging, but safe. Through a variety of adventure sports such as mountain biking, navigation games, inline skating, cross country skiing, paddling, rock climbing, and group challenges, students will demonstrate responsible personal and social behaviors in a physical activity setting. Students will apply movement concepts to the learning and development of motor skills and be provided opportunities for interaction, challenge, self-expression, and enjoyment. *Students must be able to ride a bike.*

TITLE: **RECREATIONAL FITNESS AND SPORTS**
Credit Value: .50
Course Number: 8224
Offered: Semester Block
Periods Per Week: 2
Open to Grades: 11, 12
Prerequisites: Successful completion of Physical Education 10

(Course description continued on next page.)

Description: Students will acquire knowledge of physical fitness concepts that allow them to develop and set reasonable, measurable, and attainable fitness goals. Students will also develop an understanding for the importance of movement through physical activity, while participating in a number of recreational sports. Activities could include: personal fitness, yoga, aerobics, racquet sports, golf, inline skating, aquatic activities, archery, and backyard games.

TITLE: **TEAM SPORTS STRATEGIES** Credit Value: .50
Course Number: 8233 Offered: Semester Block
Periods Per Week: 2 Open to Grades: 11, 12
Prerequisites: Successful completion of Physical Education 10
Description: Students will engage in activities that will increase their knowledge of the importance of **lifetime** physical activity for personal health and well-being. Through a variety of team sports such as basketball, volleyball, softball, soccer, team handball, water polo/aquatic safety, hockey, powerball, speedball, and flag football, students will demonstrate responsible personal and social behaviors in a physical activity setting. Students will design plays, develop strategies, and officiate games. Students will apply movement concepts to the learning and development of motor skills. Through physical activity, the course will provide opportunities for interaction, challenge, self-expression, and enjoyment.

TITLE: **LIFEGUARDING** Credit Value: .50
Course Number: 8243 Offered: Full Year Block
Periods Per Week: By Appointment Open to Grades: 11, 12
Prerequisites: Successful completion of Physical Education 9/10. Students must be proficient swimmers.
Description: This is an American Red Cross course that certifies students in first aid, CPR, and lifeguarding. It is possible to pass this physical education course but not meet the qualifications for Red Cross certification. Students may also choose this course for lifeguard recertification. There is a significant fee assessed by the American Red Cross.

TITLE: **INTRODUCTION TO SPORT AND EXERCISE SCIENCE** Credit Value: .50
Course Number: 8264 Offered: Semester Block
Periods Per Week: 3 Open to Grades: 11, 12
Prerequisites: Completion of health courses and being comfortable in science and math
Description: Do you love sports and athletics? Looking to improve your own game? Introduction to Sport and Exercise Science is designed to explore career opportunities and discover the science behind the sport. We will look at current trends while examining the following areas: exercise physiology, exercise epidemiology, athletic training, sports nutrition, biomechanics, motor learning, sport psychology, and sport analytics. Students should expect various hands-on learning experiences, guest speakers, and possible field trip opportunities.

Please note that this course does not fulfill the physical education requirement.

TITLE: **AM PHYSICAL EDUCATION** Credit Value: .50
Course Number: 8236 Offered: Full Year Block
Periods Per Week: 2 Open to Grades: 11, 12
Prerequisites: Successful completion of Physical Education 9/10 A & B. PLEASE NOTE: This course will be offered before school on Monday/Wednesday or Tuesday/Thursday from 6:30-7:15 a.m. The district will **NOT** provide transportation to students electing this course.
Description: Students will engage in activities that will increase their knowledge of the importance of *lifetime* physical activity for personal health and well-being. A variety of activities/sports covering the entire 11/12 physical education curriculum will be offered during this course, providing the opportunity for students to demonstrate responsible personal and social behaviors in a physical activity setting. Students will apply movement concepts to the learning and development of motor skills. Through physical activity, the course will provide opportunities for interaction, challenge, self-expression, and enjoyment.

TITLE: **UNIFIED PHYSICAL EDUCATION** Credit Value: .50
Course Number: 8281 or 8282 Offered: Full Year Block
Periods Per Week: 2 Open to Grades: 9, 10, 11, 12
Prerequisites: None
Description: The Unified Physical Education class develops group as well as individualized activity programs for students based on specific needs and abilities. Emphasis is on the development of fundamental motor movements. This class will provide opportunities for interaction and enjoyment.

Vocational/Technical

TITLE: **A.W. Beattie Career Center** Credit Value: 3.00
Course Numbers: 9023 (11th Grade) and 9043 (12th Grade) Offered: Full Year Block
Prerequisites: None Open to Grades: 11, 12

General Information: The A.W. Beattie Career Center offers students an opportunity to prepare for their chosen career field through advanced career and college preparation during their 11th- and 12th-grade years.

Students attending A.W. Beattie Career Center are enrolled in the afternoon session and spend the morning at Fox Chapel Area High School. Three credits are awarded each year to students successfully completing career coursework. A.W. Beattie Career Center credits and grades are included in the QPA and class deciles.

All A.W. Beattie Career Center programs offer advanced college credit upon successful completion. Potential college credits range from three to 20 credits.

A.W. Beattie Career Center programs are approved Programs of Study (POS) providing for a seamless transition to post-secondary education through rigorous content aligned with challenging academic and relevant career context in a nonduplicative progression of courses aligned to postsecondary education. Students Occupationally and Academically Ready (SOAR) is a Pennsylvania program which allows Career Technical Education (CTE) students to earn free college credits. Students earn free credits with a qualifying score from the NOCTI senior year assessment and confirmation that they have completed the entire CTE program of study. To obtain these free credits, students must submit the proper paperwork to the college, as outlined below. This paperwork requires CTE administrative signatures for submittal.

See Which Colleges Offer Free Credits for Your CTE Program of Study (POS)

To determine the free credits offered for Pennsylvania Career and Technical Educational Programs of Study (POS) visit the website *http://www.collegetransfer.net/*. After selecting your Program of Study and your high school graduation year, you can view all of the colleges offering free credits for your particular CTE program. Additionally, A.W. Beattie Career Center maintains many college articulation agreements, along with dual enrollment and pre-apprenticeship opportunities for students. Please visit our website *www.beattietech.com* for additional information.

Students who attend A.W. Beattie may be eligible to earn math and/or science credits toward graduation requirements. Students should see their school counselor for additional information.

Several of A.W. Beattie's programs require uniforms and equipment. The student and parents/guardians assume this cost. Therefore, students should obtain accurate cost information before enrolling for a course. Transportation is provided by the school district.

Applications to attend A.W. Beattie Career Center should be made during the second semester of 10th or 11th grade and will be carefully reviewed. Further information regarding enrollment in A.W. Beattie Career Center's programs is available in the school counseling office.

Course Offerings — The A.W. Beattie course offerings are:

Advertising Design
Automotive Collision Technology
Automotive Technology
Carpentry/Building Construction
Cosmetology
Culinary Arts
Dental Careers
Early Childhood Education
Emergency Response Technology
Health and Nursing Sciences
Heating, Ventilating, and Air-Conditioning
Network Engineering & Cyber Security
Pastry Arts
Pharmacy Operations (11th & 12th Grade Only)
Robotics Engineering Technology
Sports Medicine – Rehab Therapy and Exercise Science Technology
Surgical Sciences
Veterinary Sciences Technology

Advertising Design – The Advertising Design program at A.W. Beattie Career Center focuses on a wide variety of professional art-related fields, including digital graphic design, multimedia, digital photography, and web design. Students will train in a dual-platform (Mac and PC) environment using the latest in professional graphic design software and equipment, such as Adobe Photoshop CS5.5, Adobe Illustrator CS5.5, Adobe Premier Pro, Adobe Dreamweaver CS5.5, and many others. Students may achieve advanced standing at local colleges or universities by utilizing college credits earned while enrolled as an Advertising Design student.

Automotive Collision Technology – The nationally-recognized Inter-Industry Conference on Auto Collision Repair (I-CAR) is utilized in the Automotive Collision Technology program at A.W. Beattie Career Center. The I-CAR curriculum provides strict industry standards supporting students with hands-on experience using equipment in a state-of-the-art auto collision lab. The Automotive Collision Technology program trains students in all aspects of the industry including MIG welding, computerized paint mixing, and automotive spraying techniques. Using the latest technology in a fully equipped auto collision shop keeps students up to date with current standards. Cooperative education experiences with local area employers provide necessary hands-on training outside of the classroom.

Automotive Technology – The NATEF (National Automotive Technicians Education Foundation) ensures the Automotive Technology program within A.W. Beattie Career Center meets strict standards, providing students with hands-on experience using up-to-date diagnostic equipment in a state-of-the-art auto shop. Automotive Technology is an AYES (Automotive Youth Education Systems) training facility. AYES provides students authentic experiences during their senior year, with on-site experiences in local area dealerships, allowing for those important career connections. NATEF and AYES certifications assure students the best training and preparation to complete their ASE (Automotive Service Excellence) certification in less time upon graduation. Students will have the opportunity to earn their PA Safety and Emissions Inspection credentials prior to graduation.

Carpentry/Building Construction – Students in this PBA (Pennsylvania Builders Association) endorsed program will receive classroom and hands-on training in carpentry, masonry, plumbing, residential wiring, and building a home for sale. Students also have the opportunity to join SkillsUSA where they can be involved in activities and competitions, as well as community projects that challenge the students during the year, preparing them for immediate employment. Students also have the opportunity to experience live work by taking part in the ongoing project of building a modular home. Additionally, students will gain experience in the operations of forklifts, scissor lifts, and industrial rigging systems.

Cosmetology – The A.W. Beattie Training Salon provides qualified Cosmetology students with the opportunity to use their energy, skills, and imagination on clients from the community in a state-of-the-art cosmetology salon. Students will study care of hair, nails, and skin. They will learn the proper use of cosmetology tools and equipment, as well as techniques in hair cutting, styling, coloring, permanent waving, relaxing, manicuring, pedicuring, and skin care. Students will also focus on professionalism and customer relations and test for their Pennsylvania State Cosmetologist License when they have completed 1,250 hours of training.

Culinary Arts – The Culinary Arts program has built a reputation as one of the finest throughout the state. The A.W. Beattie Restaurant, given a three-star rating by the Post-Gazette, is student-run and serves breakfast and lunch to more than 180 people a day! The Bake Shop sells cookies, brownies, pies, cakes, and various pastries. Students learn all aspects of the restaurant business from meal planning, food preparation, baking and carving, to dining room management and banquet serving. There are many job opportunities within the always-growing culinary industry. In this program, students practice their craft in a state-of-the-art commercially equipped kitchen and bakery.

Dental Careers – Dental Careers provides students with the necessary skills for employment in dental assisting, lab technician, infection control assistant, and many more opportunities within the dental industry that extend into a jump-start for postsecondary education. Seniors participate in hands-on work experiences in dental offices, learning and assisting in four-handed dentistry, chair-side assisting, administrative skills, and other techniques. Students will prepare to test for their PA Dental Radiology Certification. Students learn the latest techniques, including digital X-ray.

Early Childhood Education – Qualified students in Early Childhood Education (ECE) experience the opportunity to apply their child development and teaching skills daily, working with children in the on-site Kiddie Tech Child Care Center. In addition to a variety of classroom activities, students learn hands-on with infants, toddlers, and preschool age children. Students present a series of learning and developmental activities in the child care facility, practicing and refining their creative teaching skills, as well as learning the basics in caring for and managing children. In partnership with Junior Achievement, students have the opportunity to teach in classrooms in local school districts. Additionally, through a pre-apprenticeship agreement with Carlow University, ECE students have the opportunity to earn transferable college credits.

Emergency Response Technology – Emergency Response Technology challenges students with exciting hands-on training in a fully equipped on-site lab, as well as field trips to local police and fire academies throughout the school year. Students study several technical fields, including police science, fire science, rescue operations, hazardous materials, and emergency medical services. Training for the Emergency Medical Responder and Emergency Medical Technician certifications at A.W. Beattie Career Center will prepare students for immediate employment in the growing Emergency Response Technology industry.

Health and Nursing Sciences – Today's medical field is rapidly growing. Now, more than ever, health care professionals are in high demand and are essential employees. These professions include patient care technicians, nursing assistants, medical assistants, EKG technicians, phlebotomy technicians, registered nurses, nurse practitioners, physician assistants, etc. The Health and Nursing Sciences core curriculum will prepare students for future success in the health care industry. Students will have the opportunity to obtain many health care certifications. These include, but are not limited, to first aid, CPR, Stop the Bleed, and patient care technician. During the program, students will learn and develop essential hands-on clinical skills that are imperative for health care professions. Students will also have the opportunity to engage in clinicals in a nursing home, hospital, and/or doctor's office setting. This will allow students to experience health care professionals in action and help students identify which health care career they want to pursue.

Heating, Ventilating, and Air-Conditioning – Heating, Ventilating, and Air-Conditioning (HVAC) prepares students with the necessary skills to become qualified technicians and mechanics in the HVAC field. Students learn heating installation and service, air-conditioning, installation and service, plumbing, electrical wiring, refrigeration, and sheet metal fabrication. Qualified students have the opportunity to participate in cooperative education experiences outside of the classroom. They will test for their EPA Certification at A.W. Beattie Career Center, helping them to ensure immediate employment opportunities. Additionally, students will gain experience in the operation of forklifts, scissor lifts, and industrial rigging systems.

Network Engineering & Cyber Security – A.W. Beattie Career Center offers a challenging Network Engineering Cyber Security program for high school students that teaches the fundamentals of how computers communicate with each other and how to protect them from malicious attacks. The program covers topics such as network architectures, protocols, devices, security principles, encryption, firewalls, malware, and ethical hacking. The program also provides hands-on experiences with various tools and software that are used in the field of cyber security and computer networking. The program aims to prepare students for careers or further education in computer networking and cyber security. The program also prepares students for industry certifications such as CompTIA A+, Network+, and Security+. The program also allows students to earn college credits through articulation agreements.

Pastry Arts – The Pastry Arts course provides students with an opportunity to learn all functions of a commercial bakery, while perfecting their creative pastry skills. Students keep the bakery cases, located in the Beattie Dining Room, stocked full of cakes, cookies, pies, brownies, breakfast pastries, and a variety of specialty breads and rolls. Students receive quality training in a fully-equipped Pastry Arts lab, learning everything from baked goods preparation to merchandising and dining room service. There are classroom demonstrations from industry professionals throughout the school year, as well as field trips to local bakeries and restaurants. Students will prepare special orders for holidays, weddings, and special events throughout the year. Students have the opportunity to earn their SERV Safe Food Safety Certification.

Pharmacy Operations – The Pharmacy Operations program will provide 11th- and 12th-grade students the opportunity to jump-start their postsecondary training and work toward a career with increased employment opportunities over the next 10 years. Students will learn compounding formulas and ratios, laws and regulations, participate in module lab work, practice sterilization skills, and demonstrate proficiency as required by industry standards. Student instruction includes the PassAssured interactive pharmacy training and test preparation for the Pharmacy Technician Certification exam. Students will participate in mock simulations and gain hands-on experience within the community. This program is limited to 11th- and 12th-grade students.

Robotics Engineering Technology – Students interested in the most recent, innovative technology have an opportunity for training in Robotics Engineering Technology (RET). Through a partnership with the Advanced Manufacturing Industry, California University of Pennsylvania, and support from Carnegie Mellon University, students move through in-depth activities into advanced design and control challenges using curriculum developed through the National Robotics Engineering Center. Due to the broad application of Robotics, numerous employment opportunities exist in the Pittsburgh area and nationally. Students also develop skills related to Advanced Manufacturing with CNC, FANUC Robotic Arm, and 3D modeling. The RET program at Beattie is endorsed by the Advanced Robotics Manufacturing (ARM) Institute which provides additional industry supports and resources that go beyond the classroom. Only programs that meet the highest standards set by the robotics industry in the categories of relevance to the industry, effective curriculum, efficiency of training, impact of the program, program sustainability, and transportability can earn the ARM endorsement.

Sports Medicine – Rehab Therapy and Exercise Sciences Technology – The Sports Medicine – Rehab Therapy and Exercise Sciences Technology (SMART-EST) Program is designed for students that are looking toward the fields of physical therapy, occupational therapy, physical rehabilitation, exercise physiology, and sports medicine. Students will develop valuable skills in diagnosis, differential diagnosis, assessment, and prevention, along with prognosis and the rehabilitation of bodily injuries and related health conditions. Students will learn the therapy and application principles of a patient care plan including assessment, evaluation, interventions of exercise, manual therapy, modalities, and neuro re-education. Students will also develop goal setting and discharge plans for patients. Students will participate in nutrition understanding, as they learn how to develop proper diet plans for healthy individuals, and they will learn how to tailor diet plans for special populations. Students participating in the SMART-EST Program could be a personal trainer/coach and physical therapy aid out of high school. The program provides a core base that a student may build a postsecondary degree or advanced certification upon.

Surgical Sciences – The Surgical Sciences program is designed for students that are looking toward a career in surgery such as sterile processing, surgical technology, surgical physician's assistant, surgical anesthesia, surgical perfusionist, surgical sales representative, operating room nurse, or surgeon. Students will develop valuable skills in sterile processing, surgical set up and instrumentation, surgical procedures, anatomy, physiology, and more. Students will learn the full surgical patient path, starting from diagnosis to recovery. They will learn how to set up and sterilize surgical instrumentation, as well as the set up and management of a surgical sterile field. Students will learn surgical assisting, as well as the roles of the additional staff in an operating room. Students will learn to critically think, as well as manage themselves and others in tense or crisis medical situations. They will work on professionalism, interview skills, and be encouraged to explore career paths that interest them. The program provides a core base advantage on which students may build a postsecondary degree, as well as equip them to enter the workforce in sterile processing departments with a significant edge over other applicants.

Veterinary Sciences Technology – Students enrolled in A.W. Beattie's National Association of Veterinary Technicians in America (NAVTA) approved Veterinary Sciences Technology program will experience a wide variety of care and management techniques throughout the program. They will gain a solid foundation in the Veterinary Sciences program on which they can build a postsecondary degree and entry-level employment skills. Students will learn to maintain medical records, schedules, offer client education, explore authentic laboratory procedures, and assist with nursing and preparation for surgical duties, along with routine exams. They will learn how to execute basic animal examinations with dogs, cats, and smaller animals brought in by instructors and staff.

Fox Chapel Area High School

Certifications: Through strategic planning and partnerships with local employers, A.W. Beattie Career Center offers a variety of nationally-recognized validated industry skills certifications. Senior students will participate in the annual National Occupational Competency Testing Institute (NOCTI) exams.

Training-related externships are required for all students wishing to earn a Performance Certificate with honors during their enrollment at A.W. Beattie Career Center. These related externship experiences can be paid or unpaid and fall into one of the following categories: Cooperative Education, Job Shadowing, Clinical Experiences or Internships, and Volunteer Opportunities.

Student Success Center services are open to all students. The center is designed to facilitate the needs of students to help them reach their full potential. Facilitators provide support services through tutoring, study guides, test assistance, and curriculum modification. Facilitators and instructional assistants offer support in the classrooms and labs.

Accreditation: The A.W. Beattie Career Center meets all requirements as established by the Pennsylvania Department of Education under the guidelines of Chapter 339. The A.W. Beattie Career Center is the first recognized United States Department of Education Green Ribbon School award recipient career center in Pennsylvania.

Contact A.W. Beattie Career Center for more information.
A.W. Beattie Career Center
9600 Babcock Blvd.
Allison Park, PA 15101
Phone: 412/847-1902
Fax: 412/366-9600
E-mail: kim.zylinski@beattietech.com
sara.goodyear@beattietech.com



NAME _____ Class of _____

FOX CHAPEL AREA HIGH SCHOOL 4 -YEAR PLANNING WORKSHEET

FRESHMAN YEAR	GR	CR	SOPHOMORE YEAR	GR	CR	JUNIOR YEAR	GR	CR	SENIOR YEAR	GR	CR
English 9			English 10			English 11			English 12		
Mathematics			Mathematics			Mathematics			Social Studies		
Science			Science			Science			PE 12		
U.S. History II			World Civilizations			U.S. History III					
PE 9			PE 10			Career & Financial Essentials					
Health 9			Health 10			PE 11					
						State Proficiency Testing					
						Service Learning			Graduation Project		
CREDITS			**CREDITS**			**CREDITS**			**CREDITS**		
TOTAL CREDITS			**TOTAL CREDITS**			**TOTAL CREDITS**			**TOTAL CREDITS**		

QPA _____ QPA _____ QPA _____ QPA _____

TEST SCORES:

PSAT 10 _____ _____ _____
PSAT 11 _____ _____ _____
Keystone 11 Eng ____ M _____ Bio _____
SAT I CR _____ M _____ W _____
SAT I CR _____ M _____ W _____
SAT II _____ _____
SAT II _____ _____
_____
ACT E _____ M _____ R _____ S _____ C _____
ACT E _____ M _____ R _____ S _____ C _____

FCAHS GRADUATION REQUIREMENTS:

27 Credits which include:

4 credits of English
4 credits of Social Studies
3 credits of Mathematics
3 credits of Science
2.5 credits in Health, Safety and Physical Education
9 credits in additional electives (2 credits in Arts & Humanities)
.5 credit College & Financial Essentials (formerly College & Career Essentials)
1 credit for passing State Proficiency Testing

POSTSECONDARY PLANS:

4-Year College / 2-Year College / Armed Service / Employment

Career Clusters of Interest: _____



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