

Course Curriculum Guide

2017 - 2018

Susquehannock High School



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Susquehannock High School is accredited by the Middle States Association of Secondary Schools and Colleges and offers a program of studies approved by the Pennsylvania Department of Education.

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FOREWORD

This guide is designed to help students and parents decide which courses are best suited to students' goals, interests, aptitude, and abilities. The high school guide offers a flexible course of study that allows students to select courses that meet their academic needs. To assure the greatest possible school success, all students are encouraged to assess their aptitudes and future plans before selecting courses.

The descriptions in this guide provide an excellent overview of all the courses offered at Susquehannock High School. The document should be beneficial in helping students plan four successful and enjoyable years of high school.

Students' choices determine their success or failure; therefore, students are urged to carefully select their courses. This important educational decision should be thoroughly discussed with parents. For more information concerning course selection, college admissions and requirements, or employment demands, students and parents should consult a school counselor.

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Course Curriculum Guide

PROGRAM OF STUDIES

The following pages contain the program of studies offered at Susquehannock High School for grades 9 through 12. We have no clearly defined curriculum format such as pathways or academies. Academic and honors/advanced placement courses are available in English, science, math, world language, and social studies. Recommendations are made by instructors in core subjects and upper-level electives in order to maximize academic learning and success in classes. Each student's schedule is individualized to maximize his or her full potential.

The Program of Studies on pages 4-6 contains a list of subjects required of all students during the four years in our school. These requirements consist of those subjects that are uniform in every student's background. You will find a wide variety of electives listed; and it is from this list of electives that the individual student, with the aid of his/her parents, counselors, and teachers, must carefully choose the remainder of his/her courses for each year.

Our program of studies is flexible and allows freedom of choice in many subjects. Choosing subjects should be done with thoughtful consideration. When choosing an elective, one should consider present and past school performance in individual subjects and tests. Personal interests, preparation for future employment, college, or other post-high school training are additional factors that should influence your choice of electives. Each elective should be selected with care and thought. Each student should choose a variety of courses since many students either do not know their future plans or change their minds later. A student, likewise, may also discover new interests.

STEM CAREERS

Students who plan to pursue a career in Science, Technology, Engineering, and/or Mathematical (STEM) fields will be best prepared by taking engineering and/or technical education courses, additional science and mathematics courses (including Advanced Placement courses), and computer and design courses. Suggested STEM courses are indicated with a "π" sign after the course title.

STUDENTS PLANNING TO ATTEND POST-SECONDARY INSTITUTIONS

Students pursuing post-secondary education must meet certain course requirements for admission. While these requirements vary according to institution, seniors whose transcripts include the following credits can be reasonably assured of meeting the minimum course requirements for admission into most bachelor degree programs:

Requirements/recommendations for highly selective or selective schools generally exceed those of traditional

Courses	Credits
English	4
Social Studies	4
Mathematics	4
Lab Science	2
World Language (French, Spanish, or Latin)	2 Years of One

colleges. In general, students seeking admission to these types of schools are encouraged to take at least 4 years of math and science and 3 to 4 years of a world language.

As early as possible students should research the course requirements of the institution that they are considering to ensure that all course requirements are being met. Four-year college requirements generally differ from two-year and other institutions.

Information regarding entrance requirements is available in the Counseling Office. Students are encouraged to begin the post-secondary search in grade 9 by accessing information on the Counseling Office web page. Students planning to major in math, science, business, engineering, etc. in college will want to take as many math courses as possible.

Prospective world language majors in college should take 4 years of one language and at least 2 years of another in high school. Students majoring in liberal arts or international business should also pursue world language study.

Since most students do not know where they will attend, the rule of thumb should be to take as much as you can, and go as far as you are able.

All electives should be chosen based on the student's abilities and interests, or for reasons of exploration, usefulness and practicality.

STUDENTS SEEKING IMMEDIATE EMPLOYMENT

Students not planning to attend a post-secondary school should choose electives suitable for their career choice.

Students who plan to pursue a career in the field of business should acquire as many skills as possible. This kind of preparation equips the individual to go directly from high school to a job/career, or may be the basis of further business training. Courses such as Accounting I and II, Computer Applications I, Tech Shed (Student Help Desk), Finance, Marketing Retail/Fashion, Marketing Sports/Entertainment, Entrepreneurship, Diversified Occupations, and Your Employability Skills (YES) are particularly useful in this kind of preparation. Choosing the highest level of mathematics that a student can master considerably enhances opportunities in many fields.

Students who are undecided as to what job they are seeking should keep avenues open for advanced training and better jobs by electing the highest level of math and science that is consistent with their abilities. In addition, electives in industrial technology education, family and consumer science, and business will help in the student's job placement.

The world of work is becoming more technical with each passing year. Office and manufacturing machinery is becoming more automated, requiring specialized skills. The best jobs of the future will go to those who have best prepared themselves in high school as well as specialized training programs after high school. **Students should expect that training after high school will be needed either to obtain or maintain a particular job/career.**

Graduation Requirements

Course	Credits
English (English 9, 10, 11, 12)	4.0
Math *	3.0
Science ** Physical Science: Chemistry Principles, Chemistry, <u>or</u> Physics (H) Biology or Chemistry (H) Science Elective or AP Biology	3.0
Social Studies: United States History I <u>or</u> United States History (Pre-AP) United States History II <u>or</u> AP United States History Human Geography <u>or</u> AP Human Geography United States Government and Economics <u>or</u> AP United States Government & Politics	4.0
Arts & Humanities	2.0
Health I and II	1.0
Personal Fitness and Sport I and II	1.0
Computer Technology ***	.5
Career Seminar	.5
Graduation Project	.5
Electives	5.5
TOTAL	25.0

* Students not demonstrating proficiency in algebra on the Keystone Algebra I exam may be required to successfully complete a Keystone Algebra course and the Project-Based Assessment in conjunction with their regularly scheduled math course.

** Students not demonstrating proficiency on the Keystone Biology exam may be required to successfully complete a Human Biology course and the Project-Based Assessment in conjunction with their regularly scheduled science course

*** The Computer Technology requirement can be met by passing one of the following courses:

- Computer Applications I
- The Tech Shed (Student Help Desk)
- Computer Programming
- AP Computer Science A
- Introduction to Video Production
- Electronic Arts I
- Basic Design Concepts

**** Seniors will be required to pass a minimum of 4 credits to graduate, regardless of the student's accumulated total. Four credits are the minimum number of credits needed to meet PIAA participation requirements.

Middle School Credits

Students who pass Algebra 1, Spanish 1, Latin 1, and/or French 1 while attending middle school will receive a high school elective credit for successfully completing the course. The course, credit, and final grade will be listed on the students' high school transcripts, but will not be factored into the students' cumulative grade point averages.

Students who pass Geometry while attending middle school will receive a high school math credit. The course, credit, and final grade will be listed on the students' high school transcript, but will not be factored into the students' cumulative grade point averages.

In order to meet the admissions requirements for many post-secondary institutions, it is recommended that students complete no less than three courses in math and two consecutive world language courses of the same language during their high school career (grades 9-12).

Program of Studies

Grade 9: 7.0 Credits to be Scheduled			
Course	Credits	Course	Credits
English	1.0	Electives (chosen from): •Art, Band, Choir, Orchestra •Computer Applications I •Contemporary Fashion I •Creative Design •Basic Design Concepts •Foods I, II •Metal, Power, or Wood Technology •Technology Education •Introduction to Video Production or Studio Production •World Language	2.0
Math	1.0		
Physical Science: Chemistry Principles, Chemistry, or Physics (H)	1.0		
United States History I	1.0		
Personal Fitness & Sport I	.5		
Health I	.5		

Grade 10: 7.0 Credits to be Scheduled			
Course	Credits	Course	Credits
English	1.0	Biology or Chemistry (H)	1.0
United States History II	1.0	Career Seminar	.5
Math	1.0	Electives	2.5

Grade 11: 7.0 Credits to be Scheduled			
Course	Credits	Course	Credits
English	1.0	Health II	.5
Human Geography	1.0	Personal Fitness and Sport II	.5
Math	1.0	Electives (chosen according to future plans)	2.0
Science Elective or AP Biology	1.0		

Grade 12: 6.0 to 7.0 Credits to be Scheduled (Diversified Occupation students must have a minimum of 4.0** Credits.)			
Course	Credits	Course	Credits
English	1.0	Graduation Project	.5
United States Government & Economics	1.0	Electives (chosen according to future plans)	3.5

Elective Courses

Elective courses will be offered when the enrollment is sufficient to justify them. Upper-level courses in world languages, technology education, etc. may be combined when enrollment in each course is less than 10 students.

Arts and Humanities

During their four years, students must earn two credits in Arts and Humanities. The courses listed below meet the requirements for Arts and Humanities.

Humanities:

French I, II, III, IV, AP French
Language and Culture
Latin I, II, III, IV
Spanish I, II, III, IV, AP Spanish
Language and Culture

Introduction to Digital Journalism
Digital Journalism
Yearbook Production Staff

Introduction to Psychology
AP Psychology
Introduction to Sociology

Music:

Band, Color Guard
Band, Concert
Music Performance

Band, Full Year
Concert Choir
Music Performance – Marching Band

Music Theory
Orchestra

Practical Arts:

Basic Design Concepts
Child Care I, II
Child Development
Electronics
Family and Society
Foods I, II, III

Foundations of Construction I, II
Interior Decorating
Metal Technology I, II, III, IV
Pre-Architecture I, II
Pre-Engineering I, II
Power Technology I, II, III, IV

Robotics I, II
Technology Education
Wood Technology I, II, III, IV
Wood Works Enterprise

Visual Arts:

2-D/3-D Design I, II
Art Seminar
Drawing I, II
Introduction to Art
Painting I, II

Introduction to Video Production
Studio Production
Advanced Video Production
Video Production Seminar

Electronic Arts I, II, III
Photography I, II
Photo/Design Seminar

Courses used to satisfy subject area requirements for graduation cannot be used to satisfy the 2-credit arts and humanities graduation requirements.

Susquehannock High School Graduation Project

SUSQUEHANNOCK HIGH SCHOOL GRADUATION PROJECT

The Graduation Project must be successfully completed as part of the students' graduation requirements. Students will work with school counselors and faculty to complete the project. In conjunction with the Career Seminar course and the Development Day Program, students will complete tasks that aid in career exploration. Those tasks include two field experiences, development of a career plan and resume, and a presentation of the students' research. The goal of the project is to assure that students are able to apply, analyze, synthesize, and evaluate career information and communicate their knowledge and understanding of the researched career(s).

GRADUATION PROJECT CRITERIA

Successful completion of the following:

1. Career Seminar course
2. Two Field Experiences – Job Shadow, Career Fair, Education Visit, and/or Education Fair
3. Career Plan and Résumé
4. Oral Presentation and Portfolio Submission

GRADUATION GUIDELINES AND REQUIREMENTS

1. Project may be completed any time beginning in grade 10 with the Career Seminar course, but no later than the end of the first semester of grade 12.
2. Project must demonstrate the student's understanding of his or her chosen career path.
3. The student must thoroughly complete the Graduation Checklist and have appropriate signatures of completion.
4. Grading will be as follows:
 - H Honors (No longer available starting with the Class of 2019)
 - P Proficient
 - I Incomplete

Weighted Courses

Courses are weighted according to their degree of difficulty from 1.0 to 1.3. **These weights are used only for class ranking purposes and not for honor roll, which weights all subjects the same.** The averages for ranking are calculated as a cumulative weighted grade point average. This is done by calculating the product of the grade, credit weight for each course added to the previous quality point total, and then dividing by the total number of cumulative credits. The numerical equivalent of the letter grades are:

A+	99-100	=	4.25	B+	90-91	=	3.25	C+	81-82	=	2.25	D+	72-73	=	1.25
A	94-98	=	4.00	B	85-89	=	3.00	C	76-80	=	2.00	D	67-71	=	1.00
A-	92-93	=	3.75	B-	83-84	=	2.75	C-	74-75	=	1.75	D-	65-66	=	0.75
												F	0-64	=	0.00

Example:

Course	Grade	X	Weight	X	Credit	=	Product
English	B (3.00)	X	1.1	X	1.00	=	3.300
United States History	A+ (4.25)	X	1.1	X	1.00	=	4.675
Algebra II	B (3.00)	X	1.1	X	1.00	=	3.300
Biotechnology	B- (2.75)	X	1.2	X	1.00	=	3.300
Concert Choir	A- (3.75)	X	1.0	X	1.00	=	3.750
Health	A (4.00)	X	1.0	X	0.50	=	2.000
Physical Education	A- (3.75)	X	1.0	X	0.50	=	1.875
					6.00		22.200

Weighted Grade Point Average (WGPA) = 22.200 ÷ 6.00 = 3.700
(This calculation does not include previous cumulative credits or quality points.)

This system is used since different levels are offered in several courses. This system attempts to reward all students with credit relative to their degree of work and their ability. It will also not penalize the student taking the most advanced courses offered. Course weights appear on the Subject List beginning on page 9.

York County School of Technology

Students who wish to pursue a technical/vocational program while in high school may apply to attend the York County School of Technology (YCST). Admission is by formal application through the School Counseling Office. Applications are due in late November for first-round acceptance. YCST admits qualified 9th grade students without regard to an applicant's race, color, national origin, sex, or disability. YCST has the following eligibility criteria to be used in processing student applications: aptitude, attendance, and interest. Additional information is available in the School Counseling Office.

INDEPENDENT STUDY / RESEARCH PROGRAM

An Independent Study/Research Program is available for students and enrollment is open to 10th-12th grade students who have a minimum grade point average of 2.75 for all work completed since the end of 9th grade. A student engages in concentrated study of some aspect of an academic area of his/her choice. The student may construct a project, produce a paper, or show evidence of extensive research. He or she may also produce an original work in literature or in the fine arts. Further information and applications are available in the School Counseling Office. Students who are planning independent studies for next year must begin planning this spring. Advisors must be secured and an Independent Study Contract must be submitted and approved by the end of the current school year. It is expected that the time needed to complete the independent study courses will be taken outside of the regular school day. For additional information, contact your School Counselor.

Dual Enrollment Courses – Grades 11, 12

The Southern York County School District has partnered with colleges to offer juniors and seniors the opportunity to earn college credit while completing their high school requirements.

Finalized agreements with Penn State York, York College, and Harrisburg Area Community College permit eligible students to enroll in on-campus courses for a fraction of the normal cost. Students will receive college credits as well as high school credit for these courses.

Students may qualify for the program by scoring a 1000 or better on the SAT and maintaining a 3.0 grade point average. If you do not meet these requirements, but are still interested in the program, please see your school counselor.

Students who wish to enroll in courses during the school day will be required to adjust or work around their current schedule. College classes may also be taken after school and during the evening. Interested students should schedule an appointment with their counselor to discuss eligibility and course scheduling feasibility.

Credit and course weight will be awarded as follows:

College Credit	SHS Credit Equivalent	SHS Weight
4-credit course	1 SHS Credit	1.3
3-credit course	1 SHS Credit	1.2
2-credit course	1 SHS Credit	1.1
1-credit course	.5 SHS Credit	1.0

On-Line Courses

A variety of online ‘for fee’ elective courses and Advanced Placement courses are available for students. Susquehannock High School does not offer these courses, but they can be taken through an on-line provider approved by the administration. A select number of courses may be offered for credit recovery so students may stay on track to graduate. These courses will be offered based on availability, completion of prerequisites, and school counselor recommendation. Parents are responsible for all course fees (including software), supplying additional hardware (computer), and must understand that the school is not responsible for providing data access when the student is not in school. Interested students are encouraged to contact their school counselor for more information.

Susquehannock High School Senior Online Courses

The Southern York County School District offers online courses in English 12 and U.S. Government & Economics, through a computer-based curriculum. The online program is aligned with the district’s curriculum and state standards; it is a **rigorous** program in which students are required to be self-motivated, and work independently. English 12 and U.S. Government & Economics will be weighted 1.1 and awarded one (1) credit upon successful completion. Through the online courses, students will have access to their course work 24 hours a day, seven days a week. Students will be expected to complete their coursework independently at home and are responsible for submitting work by specific deadlines. If taking more than one online course, it is expected that the course be completed simultaneously with other online courses and students are expected to complete the required work according to the course time frame. There is a mandatory orientation for all online courses. This orientation will be scheduled at the start of the school year.

In addition, students will have the ability to meet with their instructors to receive individualized instruction whenever the students are struggling with the content. Students taking English 12 online are also required to meet with their English instructor when completing their research paper.

In order to operate the online program, the student’s home computer must have the following programs and versions as well as a high-speed Internet connection.

Adobe Flash Player - 9
Adobe Acrobat Reader – 6
QuickTime Player – 7
Shockwave Player – 10
Java – 1.6

Schedule Changes

Students may change their schedule **up to June 22, 2017 with parental permission**. Schedule changes must meet the following criteria:

1. The schedule change will not overload any class sections.
2. The following types of changes cannot be made:
 - Change of lunch period
 - Request for a specific teacher
 - Change of course from one period to another
 - Request for a course for which the student does not have the prerequisite
3. Changes from one level of a course to a higher or lower level (i.e. English to English Honors or AP US History to US History II) require a teacher recommendation or a signed note from a parent/guardian.

Students who are repeating a failed course and receive the same teacher for the course that is being repeated have the option of requesting a different teacher, if available.

Any schedule change after June 22, 2017 would be granted as a result of school error or an incomplete schedule.

Student Withdrawal from a Course

A student may withdraw from a course up to **ten school days** into the beginning of the course with the following conditions:

1. Parent's permission has been received.
2. Student currently does not have a study hall scheduled (**only** seniors may replace a course with a study hall if they do not already have one scheduled).
3. Another course is available during the same period for which the student has the necessary pre-requisites or has not already taken.
4. The change will not overload enrollment in the new course.

Withdrawals (if approved) after the ten school days deadline will result in a withdrawal failure (WF) grade for the course, which will be calculated as a zero for GPA.

Making Up Work and Incompletes

Any incomplete grade not made up by the start of the next school year (first day of school) will receive no credit for the incomplete work.

National Collegiate Athletic Association (NCAA) Eligibility Center Requirements

All prospective Division I and II student-athletes must register with this organization to become eligible for participation in intercollegiate athletics as a college freshman. Students are encouraged to discuss this process with the Athletic Director or School Counselor or visit the website at www.eligibilitycenter.org.

SUBJECT LIST							
SUBJECT	CREDITS	WEIGHT	COURSE LENGTH (WEEKS)	RECOMMENDED YEAR OF SELECTION			
FAMILY AND CONSUMER SCIENCE							
Child Care I	0.50	1.0	18			11	12
Child Care II	0.50	1.0	18			11	12
Child Development	0.50	1.0	18		10	11	12
Contemporary Fashion I	0.50	1.0	18	9	10	11	12
Contemporary Fashion II	0.50	1.0	18		10	11	12
Creative Design	0.50	1.0	18	9	10	11	12
Family and Society	0.50	1.0	18		10	11	12
Foods I	0.50	1.0	18	9	10	11	12
Foods II	0.50	1.0	18	9	10	11	12
Foods III	0.50	1.0	18		10	11	12
Interior Decorating	0.50	1.0	18		10	11	12
MATHEMATICS							
Algebra I π	1.00	1.1	36	9			
Algebra II π	1.00	1.1	36	9	10	11	12
Algebra II (H) π	1.00	1.2	36	9			
Algebra III π	1.00	1.1	36		10	11	12
Calculus π	1.00	1.2	36				12
AP Calculus AB π	1.00	1.3	36			11	12
AP Calculus BC π	1.00	1.3	36				12
Computer Programming * π	1.00	1.1	36		10	11	12
AP Computer Science A* π	1.00	1.3	36			11	12
Geometry π	1.00	1.1	36	9	10	11	12
Pre-Calculus with Trigonometry π	1.00	1.1	36		10	11	12
Pre-Calculus with Trigonometry (H) π	1.00	1.2	36		10	11	12
Keystone Algebra	1.00	1.0	36		10	11	
Probability and Statistics π	1.00	1.1	36		10	11	12
PSAT/SAT Preparation	0.50	1.0	18	9	10	11	
Math Applications	1.00	1.0	36				12
AP Statistics π	1.00	1.3	36			11	12
MUSIC							
Band, Color Guard	0.50	1.0	9	9	10	11	12
Band, Concert	0.75	1.0	27	9	10	11	12
Band, Full Year	1.25	1.0	36	9	10	11	12
Choir, Concert	1.00	1.0	36	9	10	11	12
Music Performance	1.00	1.0	36	9	10	11	12
Music Performance – Marching Band	1.25	1.0	36	9	10	11	12
Music Theory	0.50	1.0	18		10	11	12
Orchestra	1.00	1.0	36	9	10	11	12
PHYSICAL EDUCATION/HEALTH/DRIVER EDUCATION							
Personal Fitness and Sport I	0.50	1.0	18	9			
Personal Fitness and Sport II	0.50	1.0	18		10	11	12
Personal Fitness and Sport	0.50	1.0	18	9	10	11	12
Competitive Sports for Fitness	0.50	1.0	18		10	11	12
Physical Education, Adaptive	0.50	1.0	18	9	10	11	12
Weight Training/Conditioning I	0.50	1.0	18		10	11	12
Weight Training/Conditioning II	0.50	1.0	18		10	11	12
Yoga/Pilates I	0.50	1.0	18		10	11	12
Yoga/Pilates II	0.50	1.0	18		10	11	12
Health I π	0.50	1.0	18	9			

SUBJECT LIST							
SUBJECT	CREDITS	WEIGHT	COURSE LENGTH (WEEKS)	RECOMMENDED YEAR OF SELECTION			
Health II π	0.50	1.0	18			11	
Exercise Science	1.00	1.0	36			11	12
Driver Education	0.50	1.0	18		10		
SCIENCE							
Biotechnology π	1.00	1.2	36		10	11	12
Biology π	1.00	1.1	36		10	11	
AP Biology π	1.00	1.3	36			11	12
Human Biology	1.00	1.0	36			11	12
Physical Science: Chemistry Principles π	1.00	1.0	36	9			
Chemistry π	1.00	1.1	36	9			
Chemistry (H) π	1.00	1.2	36		10		
Chemistry II π	1.00	1.2	36			11	12
AP Chemistry π	1.00	1.3	36			11	12
Environmental Science π	1.00	1.1	36		10	11	12
AP Environmental Science π	1.00	1.3	36			11	12
Physics (H) π	1.00	1.2	36	9			
Physical Science: Physics Principles π	1.00	1.0	36		10	11	12
AP Physics 1 π	1.00	1.3	36	9	10	11	12
AP Physics C π	1.00	1.3	36		10	11	12
Introduction to Anatomy and Physiology π	1.00	1.2	36			11	12
Earth and Space Science π	1.00	1.0	36		10	11	12
Crime Scene Investigation π	1.0	1.0	36		10	11	12
SOCIAL STUDIES							
Human Geography π	1.00	1.1	36			11	
AP Human Geography π	1.00	1.3	36			11	
AP Psychology π	1.00	1.3	36			11	12
Introduction to Sociology π	0.50	1.1	18			11	12
Introduction to Psychology π	0.50	1.1	18			11	12
United States Government & Economics π	1.00	1.1	36				12
United States Gov't & Economics Online π	1.00	1.1	36				12
AP United States Government & Politics π	1.00	1.3	36				12
United States History I	1.00	1.1	36	9			
United States History (Pre-AP)	1.00	1.3	36	9			
United States History II	1.00	1.1	36		10		
AP United States History	1.00	1.3	36		10		
TECHNOLOGY EDUCATION							
Pre-Architecture I π	1.00	1.2	36		10	11	12
Pre-Architecture II π	1.00	1.2	36			11	12
Pre-Engineering I π	1.00	1.2	36		10	11	12
Pre-Engineering II π	1.00	1.2	36			11	12
Basic Design Concepts (BDC) * π	1.00	1.1	36	9	10	11	12
Electronics π	1.00	1.0	36			11	12
Metal Technology I π	1.00	1.0	36	9	10	11	12
Metal Technology II, III, IV π	1.00	1.0	36		10	11	12
Power Technology I π	1.00	1.0	36	9	10	11	12
Power Technology II, III, IV π	1.00	1.0	36		10	11	12
Robotics I (ROBOI) π	0.50	1.2	18		10	11	12
Robotics II (ROBOII) π	0.50	1.2	18		10	11	12
Technology Education π	0.50	1.0	18	9	10	11	12
Wood Technology I	1.00	1.0	36	9	10	11	12

SUBJECT LIST							
SUBJECT	CREDITS	WEIGHT	COURSE LENGTH (WEEKS)	RECOMMENDED YEAR OF SELECTION			
Wood Technology II, III, IV	1.00	1.0	36		10	11	12
Wood Works Enterprise π	1.00	1.0	36		10	11	12
Foundations of Construction I π	1.00	1.0	36		10	11	12
Foundations of Construction II π	1.00	1.0	36			11	12
WORLD LANGUAGE							
French I	1.00	1.0	36	9	10	11	12
French II	1.00	1.1	36	9	10	11	12
French III	1.00	1.1	36		10	11	12
French IV	1.00	1.2	36			11	12
AP French Language and Culture	1.00	1.3	36			11	12
Latin I	1.00	1.0	36	9	10	11	12
Latin II	1.00	1.1	36	9	10	11	12
Latin III	1.00	1.1	36		10	11	12
Latin IV	1.00	1.2	36			11	12
Spanish I	1.00	1.0	36	9	10	11	12
Spanish II	1.00	1.1	36	9	10	11	12
Spanish III	1.00	1.1	36		10	11	12
Spanish IV	1.00	1.2	36			11	12
AP Spanish Language and Culture	1.00	1.3	36				12

* Meets Computer Technology Requirement

π Indicates Course Related to STEM Fields

Course Descriptions

ART

Introduction to Art	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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Introduction to different basic drawing and painting media with emphasis on design elements of line, form, shape, space, texture, value, and color. Lessons will incorporate a brief history of correlating artists. This is the foundation for students who have a curiosity in art and are seeking to take upper-level art courses.

It is highly recommended that students purchase a sketchbook for the course.

LEVEL 1: (*Prerequisite for all Level 1 courses is Introduction to Art or teacher recommendation.*)

2D/3D Design I	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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Students will study dimensions with this foundational course. The focus will be on two- and three-dimensional spatial problems, with reinforcement of design elements of line, space, color, texture, form, and composition. Students will explore successful compositions such as brochures, business cards and other designs. They will explore three-dimensional hand-building design techniques using clay, metal, found objects, and anything that the creative mind can imagine. Lessons will incorporate a brief history of correlating artists.

It is highly recommended that students purchase a sketchbook for the course. Depending on their projects, students may need to provide various 2D/3D supplies during the course of the semester.

Drawing I	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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Students will study two-dimensional techniques focusing on drawing media. They will gain a more advanced understanding of drawing media, processes and concepts, and they will learn about perspective, proportion, line, value making, shading and much more. Students will be using media such as graphite pencil, charcoal, pastels, and pen and ink. They will expand their knowledge and vocabulary as it relates to contemporary and historical drawings. Lessons will incorporate a brief history of correlating artists.

It is highly recommended that students purchase a sketchbook for the course.

Painting I	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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Students will explore two-dimensional techniques in the form of painting. They will become familiar with the techniques and processes of watercolor and acrylic paint, and they will develop a strong foundational base in painting ability, paving a way for other painting media. Lessons will incorporate a brief history of correlating artists as well as development of individual technique and original artwork.

It is highly recommended that students purchase a sketchbook for the course.

LEVEL 2:

2D/3D Design II	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: 2D/3D Design and/or teacher recommendation is preferred. This course is an advanced level of design and students will build upon their existing knowledge of design from the 2D/3D course. Lessons will incorporate a brief history of correlating artists.

It is highly recommended that students purchase a sketchbook for the course. Depending on their projects, students may need to provide various 2D/3D supplies during the course of the semester.

Drawing II	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Drawing and/or teacher recommendation is preferred. This course will take drawing ability to a greater level. Basic drawing principles will be applied to expand artistic ability and creativity to develop successful portfolio pieces. Lessons will incorporate a brief history of correlating artists.

It is highly recommended that students purchase a sketchbook for the course.

Painting II	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: *Painting and/or teacher recommendation is preferred.* This course will take painting ability to a greater level. Basic painting principles will be applied to expand artistic ability and creativity to create successful portfolio pieces. Lessons will incorporate a brief history of correlating artists.

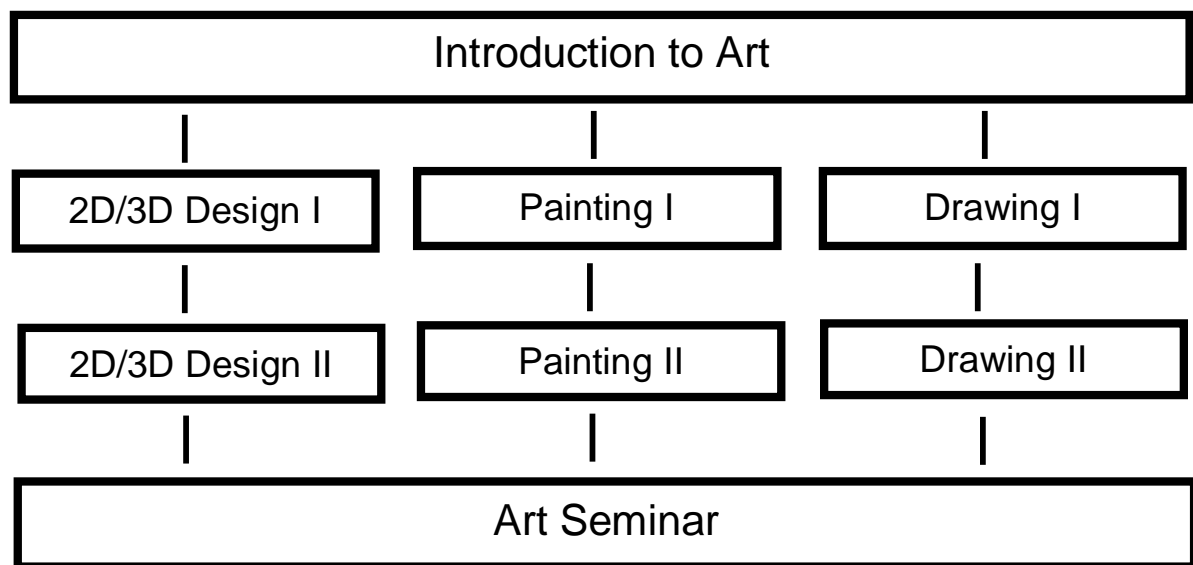
It is highly recommended that students purchase a sketchbook for the course.

Art Seminar	Grades 11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: *3 or more previous art classes; portfolio review. Teacher recommendation is preferred.* This is a rigorous art course for students planning to pursue a career in art beyond high school. Most of the assignments are student developed and teacher approved, however, some assignments are still teacher prescribed. As opposed to a typical classroom environment, the instructor supervises students as they work independently to develop their own portfolio. Students are expected to work with familiar materials/concepts, yet also take some artistic risks with assignments. The culmination of this class is a student's personal portfolio. This class is encouraged for all students considering art as a career and/or lifetime hobby.

It is highly recommended that students purchase a sketchbook for the course.

Fine Arts Suggested Sequence



Electronic Arts I	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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Successful completion satisfies the technology graduation requirement. This class is designed to instruct the students on the basic elements and principles of design that will assist them in creating successful layouts, designs, and artwork. Students will learn how to create digital artwork that can be used for illustration, graphic design or other digital media. Students will learn how to use programs such as Adobe Photoshop, Illustrator, and Adobe Flash. This knowledge will assist them in projects for college and career choices, as well as the classes that can be taken after completing the course. This class is a prerequisite for the Level II course.

It is highly recommended that students purchase USB drives and sketchbooks for the course.

If a student loses, breaks, or has equipment stolen, he/she is responsible for the replacement cost of that piece of equipment.

Electronic Arts II	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Electronic Arts I. This second level course will build upon the basic knowledge learned in Electronic Arts I. Emphasis will be on project planning and finding solutions to advanced graphic design scenarios, using technology to create computer-generated artwork. The students will explore the basic elements and principles of design, using hands-on applications. Students will learn and add to their knowledge of programs, such as: Adobe Photoshop; Illustrator; InDesign; Flash; and Dreamweaver.

This class is a prerequisite for the Electronic Arts III course.

Depending on their projects, students may need to purchase film and other printing supplies. It is highly recommended that students purchase USB drives and sketchbooks for the course.

If a student loses, breaks, or has equipment stolen, he/she is responsible for the replacement cost of that piece of equipment.

Electronic Arts III	Grades 11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Electronic Arts II. This third level course will build upon the advanced knowledge learned in Electronic Arts II. Emphasis will be on preparing students for a career in graphic design. Students will be given authentic real-world projects where their application of design theory is tested at an advanced level. Students will learn and add to their knowledge of programs, such as Adobe Photoshop; Illustrator; InDesign; Flash; and Dreamweaver. This class is a prerequisite for the Design Seminar course.

Depending on their projects, students may need to purchase additional printing and presentation supplies. It is highly recommended that students purchase USB drives and sketchbooks for the course.

If a student loses, breaks, or has equipment stolen, he/she is responsible for the replacement cost of that piece of equipment.

Photography I	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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This class is designed to give students the history and basic understanding of photography. They will be introduced to camera operation, 35mm photography, film developing, digital photography, and photo manipulation.

Depending on their projects, students may need to purchase film and other printing supplies. It is highly recommended that students purchase USB drives and sketchbooks for the course.

If a student loses, breaks, or has equipment stolen, he/she is responsible for the replacement cost of that piece of equipment.

Photography II	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Photography I. This class will further the students' knowledge in 35mm and digital photography and apply more advanced procedures such as time exposures, close/macro studies, lighting and portraits. The students will gain a greater understanding in order to create successful fine art and commercial photography.

Students will need to purchase film and other printing supplies. It is highly recommended that students purchase USB drives and sketchbooks for the course.

If a student loses, breaks, or has equipment stolen, he/she is responsible for the replacement cost of that piece of equipment.

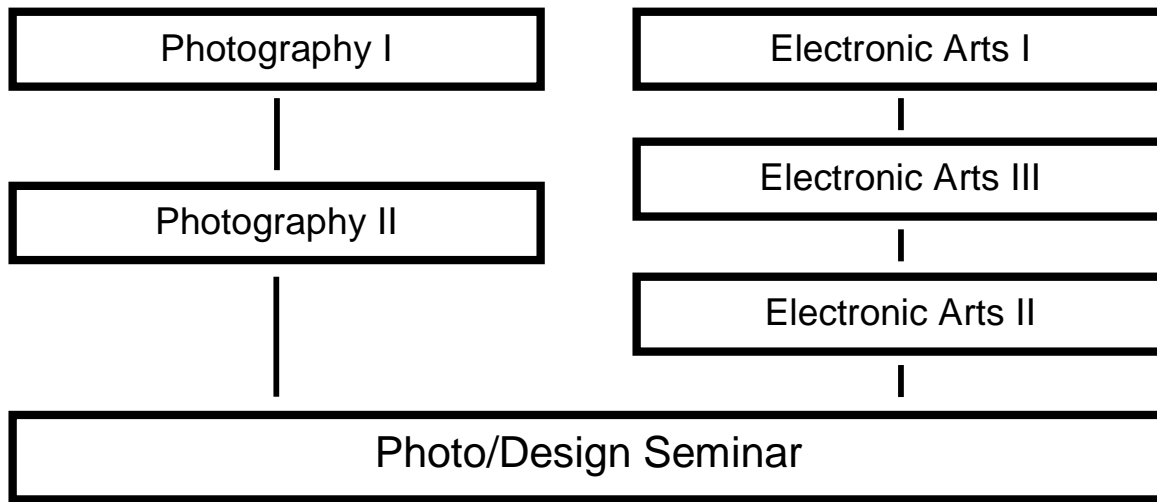
Photo/Design Seminar	Grades 11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Two or more previous graphic communications classes; portfolio review. Teacher recommendation is preferred. In this class, the students will focus on preparing and expanding their knowledge in preparation for post-secondary training in the graphic arts, graphic design, and photography fields. Students will create graphic and photo concentrations. The students should have a diverse portfolio by the end of the semester.

Depending on their projects, students may need to purchase film and other printing supplies. It is highly recommended that students purchase USB drives and sketchbooks for the course.

If a student loses, breaks, or has equipment stolen, he/she is responsible for the replacement cost of that piece of equipment.

Visual Communications



COMMUNICATIONS:

Introduction to Video Production	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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In this introductory course, students will develop and enhance their creativity by learning the basic skills and techniques used to tell a visual story. Students will experience project-based learning to explore how to manipulate functions of a camcorder and components of video, composition elements, basic shots and angles used in film and media, continuity editing and sound production. Students will also become proficient in non-linear, computer-based video editing and accompanying applications. This class is a prerequisite for other classes in the Video Production program.

All projects need to be teacher approved and paid for by the student. The school will provide most of the equipment. Students are expected to purchase digital video, VHS tapes, and production props. If a student loses, breaks, or has equipment stolen, he/she is responsible for the replacement cost of that piece of equipment.

Studio Production	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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This course is heavily involved in the use of the school's TV studio. Students will explore studio production team responsibilities (both in front of and behind the camera) and media writing while completing hands-on projects. Students will also produce entirely student-run programming, and even learn chroma key or "green screen" creation. Much of the work students complete may be broadcast on Warrior TV.

All projects need to be teacher approved and paid for by the student. The school will provide most of the equipment. Students are expected to purchase digital video, VHS tapes, and production props. If a student loses, breaks, or has equipment stolen, he/she is responsible for the replacement cost of that piece of equipment.

Advanced Video Production	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Introduction to Video Production or Studio Production. In this course students will learn the fundamentals of promotions and advertising and how to reach a target audience through creation of video/audio productions. Focus is placed on the fundamentals of attention, interest, desire, and action. Students will create a variety of productions to be aired on Warrior TV. Those wishing to take a marketing course may find this class helpful.

All projects need to be teacher approved and paid for by the student. The school will provide most of the equipment. Students are expected to purchase digital video, VHS tapes, and production props. If a student loses, breaks, or has equipment stolen, he/she is responsible for the replacement cost of that piece of equipment.

Video Production Seminar	Grades 11, 12	Weight 1.0	.5 Credit/Semester
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Teacher Recommendation Preferred. Prerequisite: Introduction to Video Production and Advanced Video Production. This course is open only to Juniors and Seniors. This class focuses on preparing and expanding student knowledge in preparation for post-secondary training in video/multimedia production fields. Students will identify and create diverse portfolio items. Crossover with graphic arts and marketing classes is possible. Students wishing to take this class will be expected to work independently. They must take initiative, be dependable, and complete work under the confines of deadlines. Some production work will be done outside of normal school hours.

All projects need to be teacher approved and paid for by the student. The school will provide most of the equipment. Students are expected to purchase additional production props, as needed. If a student loses, breaks, or has equipment stolen, he/she is responsible for the replacement cost of that piece of equipment.

Business Department Course Offerings

Suggested Sequence

Level 1

Computer
Applications I

Level 2

Finance

Computer
Applications II
**(Student Help
Desk)**

Career Seminar
(Required)
Grade 10

Marketing
Retail/Fashion

Marketing
Sports/Entertain.

Accounting I

Level 3

Entrepreneurship

Business Law

Accounting II

Your Employability
Skills **(YES)**

Level 4

DO Class
Grade 12 only

Work Experience
Scheduled with DO or
YES

YCAL Pre-
Apprenticeship
Grade 12 only

BUSINESS EDUCATION

Accounting I	Grades 10, 11,12	Weight 1.0	1 Credit/Year
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This course is an introduction to basic accounting concepts. Learn how to analyze, record, and summarize business transactions in accounts, journals, worksheets, and financial statements. The course is recommended for students interested in pursuing careers in business, as well as those who would like to have a well-rounded background for any career path they choose. Students will also learn valuable skills such as paying attention to detail, being precise/accurate, organizing and analyzing financial information and preparing personal taxes.

Accounting II	Grades 11,12	Weight 1.1	1 Credit/Year
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Prerequisite: Accounting I. This course delves further into accounting for merchandising businesses, organized as corporations. Students will review the basic accounting concepts learned in Accounting I through simulation activities and then utilize computerized working papers and accounting software (such as Excel, QuickBooks and Peachtree) to learn and practice accounting procedures related to assets and depreciation, uncollectable accounts, inventory, notes and interest, accrued revenue and expenses, and end-of-fiscal-period work for a corporation. Students will also work with real-world information to extend critical thinking, analysis and application skills. This course may require more independent work with teacher support.

Computer Applications I	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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Successful completion satisfies the technology graduation requirement. This course will prepare students to be successful in today's digital-age environment. Students will learn to use technology to enhance the quality of created work whether used at school, home, or in the workplace. Software to be used: Microsoft Office and Apple's iWork and iLife. Areas of Focus: Document Processing, Spreadsheets, Photo Management, and Electronic Presentations.

Computer Applications II (Student Help Desk)	Grades 10,11,12	Weight 1.0	1.0 Credit/Year
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Prerequisite: Computer Applications I. Successful completion satisfies the technology graduation requirement. This course is a hands-on study of technology integration in an education. Students will explore hardware, software, and web-based applications. Students are required to assess problem sets throughout the day and define the best approach to addressing or solving the problem. Along with troubleshooting for students and teachers, students will be required to learn content, complete projects, and educate the District on technology integration. The course also asks students to have a prior understanding of Google, Apple OS, and Microsoft Windows OS. To be considered for Help Desk, students are required to interview with a panel of SYCSD professionals. After completion of this course, students may enroll again.

Career Seminar	Grade 10	Weight 1.0	.5 Credit/Semester
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This course is designed to explore the foundations of career success. Students will use online inventories to assist in career exploration, goal setting, and practical skills for living. Individual career and education plans will be developed, and students will create an initial résumé, complete a job application, and conduct a proper interview. Students will learn the importance of budgeting and financial management. *Successful completion of this course is a required part of the graduation project. Details of the Graduation Project are found on page 5 of this course guide.*

Business Law	Grades 11,12	Weight 1.0	.5 Credit/Semester
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This course examines a variety of legal issues in our society and how they will impact the individual and the business firm. It begins with the study of the development of our legal system, how our laws are enforced, and the role of the courts in the enforcement process. Emphasis will be placed on both criminal and civil actions. Attention will also be given to the development of contracts and how a minor can be affected in the contractual process. Current events will be an integral part of the learning environment. A field trip to the York County Court House may be included in the course.

Finance	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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This course examines consumerism, financial planning, credit, taxes, saving opportunities, and the economy. Students will also look closely at personal budgeting, but will also explore financing involved in the business world. Throughout this course, students will learn the necessary skills and decision-making process for life on their own. After successfully completing this course, students will feel more confident in their ability to make financial decisions.

Marketing – Retail/Fashion	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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This course is designed to give students an introduction to marketing and its impact on business. Emphasis will be on marketing in the fashion and retail sector. Students will be exposed to advertising, promotion, market research, business math, pricing, distribution, and other components. Students will be involved in many hands-on projects and work with local businesses to learn the basic concepts of marketing. Any student considering a career in business should take one of the marketing courses.

Marketing – Sports/Entertainment	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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This course is designed to give students an introduction to marketing and its impact on business. Emphasis will be on marketing in the sports and entertainment sector. Students will be exposed to advertising, promotion, market research, business math, pricing, distribution, and other components. Students will be involved in many hands-on projects and work with local businesses to learn the basic concepts of marketing. Any student considering a career in business should take one of the marketing courses.

Entrepreneurship	Grades 11,12	Weight 1.0	1 Credit/Year
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Entrepreneurship is the practice of starting a new business. Entrepreneurs are critical in today's business world, for our economy is dependent on them. Students in this course will take a close look at different types of businesses and the marketing and finance functions involved with getting a new or existing business on the path to success. Throughout the course, students will develop a proper business plan for a business of their own. Any student that is considering a career in business should take this course.

Diversified Occupations (DO)	Grade 12	Weight 1.0	1 Credit/Year
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A vocational education program that provides occupational training and work experience to students in an area that should be related to their career objectives. It is a blending of classroom study in work orientation (personal responsibilities, job readiness, employability skills, etc.) and on-the-job learning experiences with local businesses. Students attend class daily and may then be released from school for practical on-the-job learning. This is contingent on the adherence to school behavior/attendance policies and maintaining passing grades in all subjects.

Work experience MUST be scheduled for at least one semester of this course. A minimum of 18 credits toward graduation is required for students to be eligible.

Work Experience	Grades 11, 12	Weight 1.0	.5 Credit/Semester
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Provides on-the-job work experience to enhance understanding of concepts learned in Diversified Occupations (DO) or Your Employability Skills (YES). Students are responsible for obtaining employment by the start of each semester or must be employed within two weeks of the start of the semester; they must remain employed the entire semester to earn credit. Required daily, weekly, and monthly forms must be completed accurately. Appropriate employer evaluations and passing DO or YES course grades must be earned each quarter. The amount of release time for work experience in the community will be based on academic course schedule and credits needed for graduation.

Students must be enrolled in either DO or YES for the entire school year. Release from school is contingent upon the adherence to school behavior/attendance policies and maintaining passing grades in all subjects. Students who are unemployed for more than 10 school days (or two full weeks) during a semester will not earn credit for work experience.

YCAL Pre-Apprenticeship Program	Grade 12	Weight 1.0	.5 Credit/Year
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Seniors will have the opportunity to participate in a hands-on learning experience with Kinsley Construction/Education Center to prepare them for entering a full construction apprenticeship program after graduation. Students will be introduced to topics such as workplace safety, basic blueprint knowledge and basic math needed in construction. They will become safety certified through OSHA training and complete an on-site practicum at Kinsley Education Center. The program consists of 130 contact hours including: 2 hours - orientation and introduction to safety (at Kinsley); 80 hours - online instruction for blueprints and math (at school); 10 hours - OSHA training (at Kinsley); 4 hours - lunch with representatives of various Kinsley divisions (at Kinsley); 32 hours - on-site practicum (at Kinsley once a month from 7:00 am - 3:00 pm); and 2 hours - closing reception (at Kinsley - parents invited and encouraged to attend). *Students must provide their own transportation to the events held at Kinsley. Students must also be enrolled in DO for the entire school year.*

Your Employability Skills (YES)	Grades 11, 12	Weight 1.0	1 Credit/Year
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The YES program provides a foundation of basic skills for many career path opportunities, including those that require technical training and college. The curriculum focuses on skills all employers seek in a potential employee, including personal development for business success, business communications, teamwork, health and safety in the workplace, technology on the job, and quality of work. Successful completion of the program requirements will result in YES certification, which is supported by the Manufacturing Association of South Central Pennsylvania and recognized by more than 100 York County businesses, giving students an advantage when seeking employment. Students may take the course and earn credit toward graduation without becoming YES certified.

There will be an opportunity for practical on-the-job learning experiences through YES with local businesses, contingent on the adherence to school behavior/attendance policies and maintaining passing grades in all subjects. Work experience is optional. Juniors will be allowed no more than one period of release time for work experience in the community. Senior release time for work experience will be based on academic course schedule and credits needed for graduation.

ENGLISH

The course levels are academic (grades 9-12), honors (grades 9-10), Pre-AP (grade 11), and Advanced Placement (grade 12). Student placement is based on teacher and counselor recommendation and a review of the student's academic record. Parental approval is also required. ***Beginning with the class of 2019, students who do not demonstrate proficiency on the Keystone Literature Exam will be required to retake the Keystone Exam, and may be required to complete a Project Based Assessment in their English 11 course, in order to meet Pennsylvania Department of Education graduation requirements.***

English 9	Grade 9	Weight 1.1 - 1.2	1 Credit/Year
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Designed to advance the student's proficiency in grammar and usage, as well as mechanics, and to increase writing abilities. Topics reviewed include paragraph and essay development in all modes of writing. In addition, there are weekly lessons in vocabulary building, as well as units covering literary elements. Literature units involving fiction stories, non-fiction selections, drama, and/or novel are covered.

English 10	Grade 10	Weight 1.1 - 1.2	1 Credit/Year
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Developed to provide a logical sequence of language and writing skills carried over from 9th grade. In this course, emphasis is placed on continuing to advance grammar and usage, as well as mechanics and writing and speaking abilities. Advanced skills in the informational, persuasive, and narrative modes are covered, along with advanced grammar and sentence writing skills and speaking skills. Literature study includes poetry, short stories, drama, and novel units.

English 11	Grade 11	Weight 1.1	1 Credit/Year
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Students in this course are provided opportunities to further develop their reading, writing, speaking, vocabulary, and listening skills. A more intensive study of literature is incorporated into the program by concentrating on classics from American literature, including the historic period in which the literature was written. Lessons on grammar and speech are presented as necessary. At this level, composition activities are derived more frequently from literature. For students not proficient on the Keystone Literature exam, this course will include a concentration on the completion of a Project Based assessment in order to meet Pennsylvania Department of Education graduation requirements.

English 11 (Pre-AP)	Grade 11	Weight 1.3	1 Credit/Year
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Successful performance in previous English courses and teacher recommendation are preferred. Intended to prepare the college-bound student to complete the Advanced Placement English Examination, which might allow a student to be exempted from freshman English at colleges that accept AP test results for credit. Designed on the level of a college freshman course. The main emphasis is on composition, rhetoric, vocabulary, and literature. Course intent is to familiarize students with advanced composition techniques to teach the workings of language in grammar, diction, and syntax, and to complete close analysis of various genres of literature. Students will complete in-class writings. In addition, each student will complete a research project, which develops some aspect of literature. Students are expected to take the AP exam for college credit in May of their senior year.

English 12	Grade 12	Weight 1.1	1 Credit/Year
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Students in this course are provided opportunities to further develop their reading, writing, speaking, vocabulary, and listening skills. A more intensive study of literature is incorporated into the program by concentrating on both classic and contemporary fiction and nonfiction literature, organized by thematic units. Lessons on grammar and speech are presented as necessary. At this level, composition activities include literary analysis and research essays.

English 12 Online	Grade 12	Weight 1.1	1 Credit/Year
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Students in this course are provided opportunities to further develop their reading, writing, speaking, vocabulary, and listening skills. A more intensive study of literature is incorporated into the program by concentrating on both classic and contemporary fiction and nonfiction literature, organized by thematic units. Lessons on grammar and speech are presented as necessary. At this level, composition activities include literary analysis and research essays.

Due to the independent nature of the course, a high degree of self-motivation is required.

AP English Literature and Composition	Grade 12	Weight 1.3	1 Credit/Year
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Successful performance in previous English courses and teacher recommendation are preferred. (This course is intended to prepare the college-bound student to complete the Advanced Placement Examination, which might allow a student to be exempted from freshman English at colleges that accept AP test results for credit.) Students are required to complete the assigned reading list of selected literature, including various genres such as novel, novella, poetry, drama, and non-fiction essays. Emphasis is placed on close reading, analysis, comparison, and evaluation of the texts and the authors' techniques. Students will write frequently to improve their essay skills and will be expected to contribute daily to class discussions of the literature. The culminating activity of the course will be a required 8-10 page literary analysis of a novel or play. *Students are expected to take the AP exam for college credit in May.*

Introduction to Digital Journalism	Grades 9,10,11	Weight 1.2	1 Credit/Year
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Teacher recommendation is required. This course does not satisfy requirements for English. An elective open to recommended students who are interested in news journalism. The course covers the fundamental skills needed for news publications and the expansion of news journalism into other media. It serves as training for the news website staff (Digital Journalism). Additionally, students will write articles during the year that will be published to the *Susquehannock Courier* website (www.shscourier.com).

Digital Journalism	Grade 10,11,12	Weight 1.2	1 Credit/Year
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Prerequisite: Introduction to Digital Journalism. Teacher recommendation is required. This course does not satisfy graduation requirements for English. During the year, students publish articles to the school news website, the *Susquehannock Courier*. Students may write articles to be submitted to local newspapers for publication (www.shscourier.com).

Yearbook Production Staff	Grade 12	Weight 1.2	1 Credit/Year
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Teacher recommendation is required. Designed to teach the techniques needed to plan and produce a yearbook. The first ten weeks of the course is technical instruction. The remainder of the year is the practical application of the learned skills as the class becomes a functioning staff, meeting necessary publishing deadlines to produce the yearbook. Course is presented through lecture, demonstration, text and reference books, and projects that give hands-on experience in book production. Because of the practical requirements of book production, the number of students will be limited. A selection procedure will be implemented should more than the acceptable number of students apply.

FAMILY AND CONSUMER SCIENCE

Child Care I *	Grades 11,12	Weight 1.0	.5 Credit/Semester
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This course is a laboratory experience designed for students interested in pursuing a career in early childhood development/education. It focuses on four areas of child development: physical, emotional, social and intellectual. Daily schedules, behavior management and the caregiver's role are covered. Students will, plan, prepare and implement developmentally appropriate activities in our playschool, "The Growing Tree." **Students may elect Child Care I and II for a second year as a senior director.*

Child Care II *	Grades 11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Child Care I. This course is a continuation of Child Care I. Lesson plans, classroom management and teacher observation skills are used as students interact with the preschool children.

** Students may elect Child Care I and II for a second year as a senior director.*

Child Development	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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This course is designed for students who desire to know more about how children develop from prenatal through school age. Emphasis is placed on pre-natal health, postpartum care and baby's development during the first two years of life. Through the computerized "Baby Think It Over" project, students develop their skills needed to care for a new baby.

Contemporary Fashion I	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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This course is designed for fashion-minded students who enjoy sewing or want to develop basic sewing skills and techniques. This course will help prepare students for a career in textiles, fashion, or interior design. Beginning projects may include pillows, tote bags, purses or hats. The second marking period will concentrate on construction of at least two garments, using commercial patterns. Although some fabric is available in the classroom, fabrics and supplies suitable to personal tastes may be needed. *Students are responsible for supplying materials needed for their projects.*

Contemporary Fashion II	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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After Contemporary Fashion I, students work independently on more advanced sewing projects that they choose, to continue to improve their sewing skills and develop their own sense of style. This class will help prepare them for a career in textiles, fashion or interior design. *For more flexibility in scheduling, this class may be scheduled with Contemporary Fashion I. Students are responsible for supplying materials needed for their projects.*

Creative Design	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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Students use their creative talents to design projects incorporating design principles. Several teacher/student planned projects will be completed during the first marking period. Students will select projects based on their own interests during the second marking period. Students will learn to solve creative problems, using varied materials and techniques. *Students are expected to purchase supplies for the course.*

Family and Society	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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This course examines single, married, and family living. Topics include personality, relationships, dating, and responsibilities of family living, attitudes toward living, stereotypes, managing money, and how to be a productive member of society. Some discussions may be on relevant topics not usually approached in other classes. Students are encouraged to keep an open mind as they share their own thoughts and ideas.

Foods I	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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Traditional cooking techniques are developed and used weekly with exposure to current trends and helpful tips. Practical reading and math skills are incorporated during food preparation. Social cooperation is an important part of the classroom experience. Cake decorating design is incorporated during gingerbread construction. These projects are displayed before the holiday season. *Students are expected to pay a lab fee.*

Foods II	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Foods I. This course is designed for students who want to expand their cooking skills. Menu planning will be a central theme throughout the course. Foreign foods will be explored. Students will do a demonstration. Spices, garnishes, and low-calorie cooking will be subjects of study. Student eating habits will be self-analyzed. *Students are expected to pay a lab fee.*

Foods III	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Foods II. Culinary skills will be broadened, and advanced cooking techniques will be developed. Creativity and design will be an essential part of the course. Principles of chemistry will be observed during food preparation. Recipes will be modified and created. *Students are expected pay a lab fee.*

Interior Decorating	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Students learn to use basic decorating concepts to express their own individuality. Students will study housing designs, the elements and principles of design and learn how to develop floor plans and elevations. Several projects for the home will be included. *Students are responsible for supplying the materials needed for their projects.*

MATHEMATICS

Three different mathematics levels are offered: Academic, Honors, and Advanced Placement. Student placement is based upon teacher recommendation and a review of the student's performance in previous mathematics courses. Parents and students should refer to the flow chart at the end of this section. ***Students who are not demonstrating proficiency on the Algebra I Keystone Exam will be enrolled in the Keystone Algebra course and may be required to complete a Project Based Assessment in order to meet Pennsylvania Department of Education graduation requirements.***

Algebra I	Grade 9	Weight 1.1	1 Credit/Year
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The foundational level of all math courses. All students should take this course and have a solid understanding of the core concepts to move forward in math at the high school. Concepts include: graphing and interpreting data, solutions to linear equations, inequalities and systems of equations, quadratics, factoring, systems of open sentences in two variables, and proportions.

Algebra II	Grades 9,10,11,12	Weight 1.1	1 Credit/Year
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Prerequisite: Geometry. This course is a continuation of the algebraic concepts taught in Algebra I, with more emphasis placed on the understanding of functions. Topics include sequences; linear and quadratic equations and inequalities; systems of linear and non-linear equations; inequalities in one and two variables; polynomials; rational, irrational, and complex numbers; exponential and logarithmic functions; and inverses.

Algebra II (H)	Grade 9	Weight 1.2	1 Credit/Year
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Prerequisite: Geometry. Teacher recommendation is preferred. Designed for students who continue in Pre-Calculus with Trigonometry and Calculus. Covers all the topics of Algebra II plus the trigonometric functions and identities, as well as linear programming and matrices.

Algebra III	Grades 10,11,12	Weight 1.1	1 Credit/Year
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Prerequisite: Algebra II. Teacher recommendation is preferred. The purpose of this course is to provide the opportunity for students who require higher mathematics but not at the Pre-Calculus with Trigonometry level. Topics that will be covered in this course are extending concepts of Algebra II (linear modeling, transformations of functions, exponential, logarithmic applications, and Polynomial Functions), trigonometry, and introduction to probability. Students must have a scientific calculator for all classwork and homework.

Calculus	Grade 11,12	Weight 1.2	1 Credit/Year
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Prerequisite: Pre-Calculus with Trigonometry. An advanced course for students with previous achievement in mathematics and/or whose career interests include mathematics, engineering, and other sciences. Topics include detailed study of limits, differentiation and related problems, and integration with practical application problems.

AP Calculus AB	Grade 11,12	Weight 1.3	1 Credit/Year
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Prerequisite: Pre-Calculus with Trigonometry (H) or Calculus. Teacher recommendation is preferred. The primary focus of this course is developing the student's understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The course will unify the themes of derivatives, integrals, limits, approximations, and applications and modeling. ***Students are required to have a personal TI-89 graphing calculator for this course. Students are expected to take the AP exam for college credit in May.***

AP Calculus BC	Grade 12	Weight 1.3	1 Credit/Year
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Prerequisite: AP Calculus AB. Teacher recommendation is preferred. The primary focus of this course is expanding the student's understanding of the concepts of calculus while providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The course will review concepts from AP Calculus AB while introducing calculus-based methods, procedures, and applications of sequences and series, polar equations, and parametric and vector functions. ***Students are required to have a personal TI-89 graphing calculator for this course. Students are expected to take the AP exam for college credit in May.***

Geometry	Grades 9,10,11,12	Weight 1.1	1 Credit/Year
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Prerequisite: Algebra I. Designed for students who desire to continue in the academic sequence. Topics include intuitive and deductive reasoning; properties of lines, angles, polygons, circles, etc.; parallel lines; congruency; indirect proof; ratio; and proportion with similar polygons and solids.

Pre-Calculus with Trigonometry	Grades 10,11,12	Weight 1.1	1 Credit/Year
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Prerequisite: Algebra II. Teacher recommendation is preferred. This course develops proficiency in algebra and its underlying concepts. This is designed for students who plan to take Calculus in either high school or college. Topics include trigonometric functions and their graphs, solving trigonometric equations, polynomial and rational functions, exponential and logarithmic functions, and introductions to the calculus topics of limits, derivatives and integrals. *It is highly recommended that students have a personal TI-83 or TI-84 graphing calculator for this course.*

Pre-Calculus with Trigonometry (H)	Grades 10,11,12	Weight 1.2	1 Credit/Year
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Prerequisite: Algebra II (H). Teacher recommendation is preferred. This course develops proficiency in algebra and its underlying concepts. This is designed for students who plan to take Calculus in either high school or college. Topics include trigonometric functions and their graphs; solving trigonometric equations, polynomial and rational functions; and exponential and logarithmic functions, vectors, polar functions, and introductions to the calculus topics of limits, derivatives and integrals. *It is highly recommended that students have a personal TI-83 or TI-84 graphing calculator for this course.*

Keystone Algebra	Grades 10,11	Weight 1.0	.5 Credit/Semester
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Keystone Algebra is a required course for students who score Basic or Below Basic on the Algebra Keystone exam at the end of their Algebra course. This course is designed to meet the students' needs, based upon the Pennsylvania Algebra Standards. Depending upon their needs, students will either retake the Keystone Algebra I Exam and/or work to complete the Project Based Assessment. This course will count as 0.5 credit toward graduation; however, *it will not count as one of the three required math credits.*

Probability and Statistics	Grades 10,11,12	Weight 1.1	1 Credit/Year
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Prerequisite: Algebra II. This course is designed for students with a background in Algebra II who wish to explore, collect, and make inferences from data. Topics covered include making, comparing, and interpreting distributions; analyzing correlation; creating and interpreting regression lines; sampling; designing studies; probability; confidence intervals; and tests of significance.

AP Statistics	Grades 11,12	Weight 1.3	1 Credit/Year
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Prerequisite: Pre-Calculus or teacher recommendation. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. *It is highly recommended that students have a personal TI-83 or TI-84 graphing calculator for this course. Students are expected to take the AP exam for college credit in May.*

Math Applications	Grade 12	Weight 1.0	1 Credit/Year
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In this course, the students will investigate numerous topics that use math as an application. Some of the topics are Net Worth, Sources of Income, Credit Card Usage, Loans, and Taxes. Students will have the opportunity to relate these topics to jobs they may be considering in the future and also explore what makes a good consumer.

Mathematics Electives:

These courses do not count toward the three math credits required for graduation.

Computer Programming	Grades 10,11,12	Weight 1.1	1 Credit/Year
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Prerequisite: Geometry. Designed for students who have an academic interest or need for programming. This course focuses on C++ computer language. Topics include review of computer literacy, algorithms, programming language, and various programming techniques. *Successful completion of this course satisfies the technology graduation requirement.*

AP Computer Science A	Grades 11,12	Weight 1.3	1 Credit/Year
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Prerequisite: Algebra II. Programming experience is recommended. Designed for students who desire to pursue computer-related studies after graduation. This includes students who plan an emphasis in computer science, programming, systems analysis,

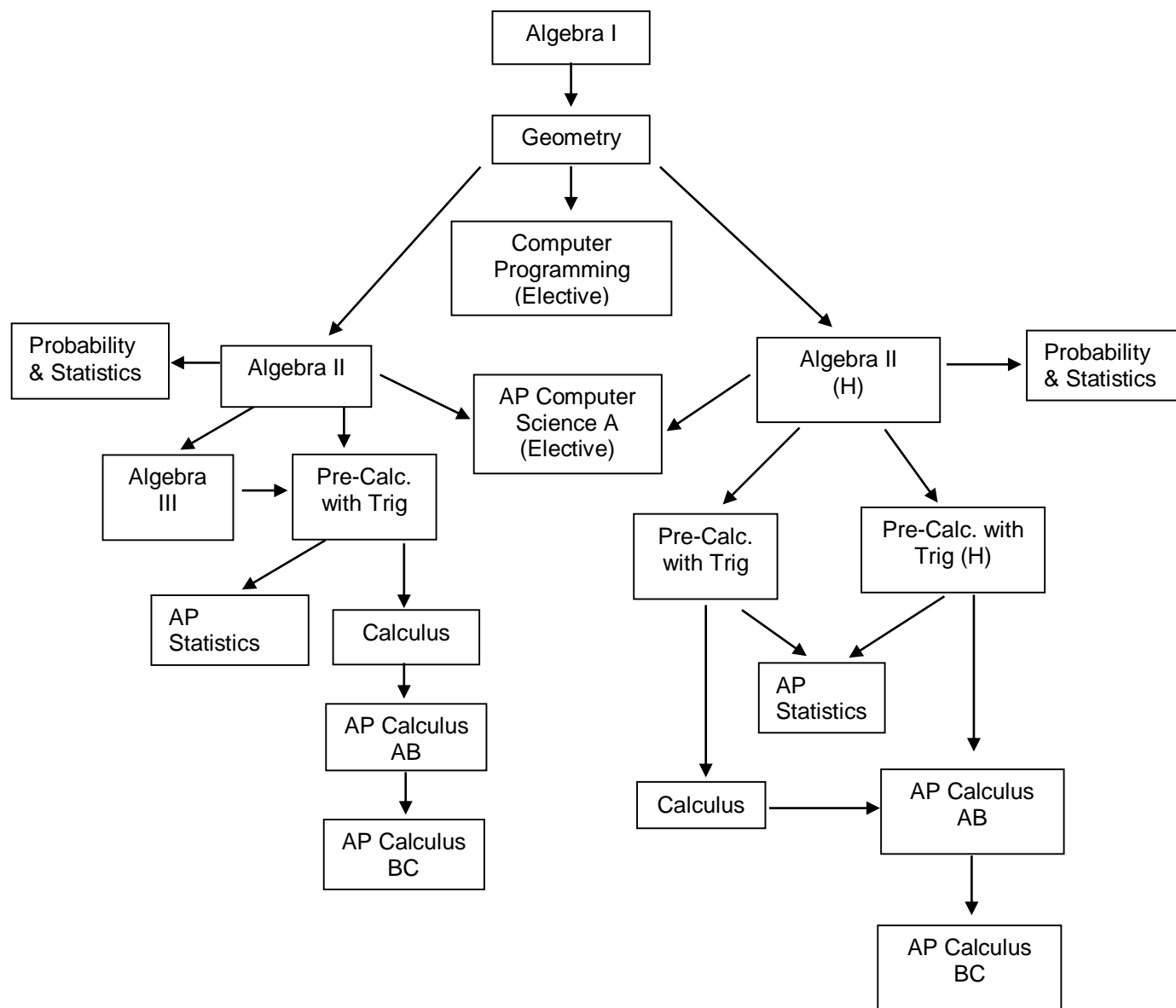
engineering, mathematics, etc. Major emphasis is on data structures, algorithms, and methodology. Applications of computing provide the context in which these subjects are treated. Activities include design and application of computer-based solutions to problems in several application areas, study of algorithms and data structures, practice in coding using high-level Java computer language, identification of hardware/software components of computer systems, and the ethical and social implications of computer use. *Students are expected to take the AP exam for college credit in May. Successful completion of this course satisfies the technology graduation requirement.*

PSAT/SAT Preparation**Grades 9,10,11****Weight 1.0****0.5 Credit/Semester**

Designed for students who plan to take the PSAT or SAT. Course includes an analysis of the tests as well as practice exercises in test-taking techniques, vocabulary development, and math topics.

Math Sequencing

The sequencing system for mathematics (shown below) is a recommendation, not a mandatory process. It is, however, a recommendation derived from the knowledge and years of experience of our mathematics teachers who are well prepared to give helpful and valid guidance in their content areas. It is possible for students to move from one sequence to another, both when conditions permit and the move is made before or early in the first marking period. The longer the marking period is in session, the more difficult it becomes to arrange this type of transfer. In addition, such moves would be made primarily for academic reasons only and will rarely be made after the first three weeks have passed unless circumstances determine that a change is essential.



MUSIC

Band, Color Guard	Grades 9,10,11,12	Weight 1.0	.5 Credit/Term
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A *visual* performing ensemble that consists of students from all grades who have an interest in performing dance, choreography, and synchronized and expressive movement and do not play a band instrument. Color Guard is part of the marching band and performs with flags, sabers, and other visual equipment. Performances include all marching band events. Students interested in this who also play a band instrument should schedule “Band, Full Year.” ***PERFORMANCES AND REHEARSALS ARE SCHEDULED DURING EVENINGS AND/OR WEEKENDS. ATTENDANCE AT ALL REHEARSALS AND PERFORMANCES IS EXPECTED.***

Band, Concert	Grades 9,10,11,12	Weight 1.0	.75 Credit/Year
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The Concert Band course is for woodwind, brass, and percussion students who cannot fulfill the requirements of the “Band, Full Year” course. Its purpose is to develop and maintain an organization of sufficient skills and proper balance of instruments to play the standard works for band; to supply music for school and community events; to afford its members the pleasure of performing with a group; and to provide practical experiences for those students who wish to participate in musical organizations in the school, community, college, or to major in music.

The band performs all styles of music intended for wind band, including contemporary compositions, transcriptions, jazz, and show tunes.

Band students also have opportunities in other ensembles connected to the band, such as full orchestra, jazz band, District, Regional, and All-State Band, pit orchestra, flute ensemble, brass ensemble, and more.

These students are required to attend all concerts and rehearsals, including those outside the school day, such as winter concert, spring concert, graduation ceremony, and the dress rehearsals.

Membership as a woodwind, brass, or percussion player in band is on an audition or teacher recommended basis.

PERFORMANCES AND REHEARSALS ARE SCHEDULED DURING EVENINGS AND/OR WEEKENDS. ATTENDANCE AT ALL REHEARSALS AND PERFORMANCES IS EXPECTED.

Band, Full Year	Grades 9,10,11,12	Weight 1.0	1.25 Credits/Year
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This is the primary band course for all woodwind, brass, and percussion students. It includes the marching and concert band experience. Its purpose is to develop and maintain an organization of sufficient skills and proper balance of instruments to play the standard works for band; to supply music for school and community events; to afford its members the pleasure of performing with a group; and to provide practical experiences for those students who wish to participate in musical organizations in the school, community, college, or to major in music.

The band performs all styles of music intended for wind band, including contemporary compositions, transcriptions, jazz, and show tunes.

Band students also have opportunities in other ensembles connected to the band, such as full orchestra, jazz band, District, Regional, and All-State Band, pit orchestra, flute ensemble, brass ensemble, and more.

These students are required to attend all concerts and rehearsals, including those outside the school day, such as band camp, winter concert, spring concert, graduation ceremony, and the dress rehearsals.

Membership as a woodwind, brass, or percussion player in band is on an audition or teacher recommended basis.

PERFORMANCES AND REHEARSALS ARE SCHEDULED DURING EVENINGS AND/OR WEEKENDS. ATTENDANCE AT ALL REHEARSALS AND PERFORMANCES IS EXPECTED.

Choir, Concert	Grades 9,10,11,12	Weight 1.0	1 Credit/Year
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This is the primary course for all vocal students. Its purpose is to expose students to vocal music while developing proper vocal technique, building sight-reading skills, learning a wide variety of choral literature; to supply music for school and community events; to afford its members the pleasure of performing with a group; and to provide practical experiences for those students who wish to participate in musical organizations in the school, community, college, or to major in music.

The choir performs public concerts in the winter and spring, as well as other school and community events throughout the year. These students are required to attend all rehearsals and concerts, including those outside the school day.

Concert Choir students also have opportunities in other ensembles connected to the choir, such as PMEA Choral Festivals including: District 7 Chorus, District 7 Vocal Jazz Ensemble, Region V Chorus, and All-State Chorus. Students in choir may also audition for Chanticleer (co-curricular) and various other choral groups that may be formed throughout the year.

PERFORMANCES ARE SCHEDULED DURING EVENINGS AND/OR WEEKENDS. ATTENDANCE AT ALL PERFORMANCES AND REHEARSALS IS EXPECTED.

Music Theory	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Exposes students to the elements of music, theory-basic music symbols, and notation. Areas of study will include ear training (diction), fundamentals of music composition, basic arranging and song writing.

Orchestra	Grades 9,10,11,12	Weight 1.0	1 Credit/Year
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The orchestra is a performing ensemble consisting of instrumentalists on string, woodwind, brass, and percussion instruments, however only string players will take the course for credit. Woodwind, brass and percussion students participate on a voluntary basis based on their audition and selection into the orchestra. Acceptance into and continued membership in the group is contingent upon sufficient performance skills and good conduct. Students are selected to participate based on teacher recommendation. The group will maintain proper balance of instruments so as to be able to perform the standard works for orchestra. Students are exposed to various styles and periods of music. Practical experience is provided for students who choose to participate in musical organizations in the community, at college, or to major in music. The full orchestra performs fall, winter and spring concerts and community functions. The students study music for orchestra ensemble, chamber ensemble and solo instrument. *CONCERTS ARE SCHEDULED DURING EVENINGS AND WEEKENDS. ATTENDANCE AT ALL REHEARSALS AND PERFORMANCES IS EXPECTED.*

Music Performance - Marching Band	Grades 9,10,11,12	Weight 1.0	1.25 Credits/Year
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Music Performance-Marching Band is a combination of Marching Band/Color Guard and either Choir and/or Orchestra.

Music Performance	Grades 9,10,11,12	Weight 1.0	1 Credit/Year
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Music Performance is any combination of Choir, Concert Band, and/or Orchestra. Students choosing this must be involved in at least 2 of the following: Choir, Concert Band, and/or Orchestra.

Choir, Band and/or Orchestra are scheduled during the same time period allowing, students to participate in more than one musical organization. Students choosing either of the performance options would divide their time among the musical organizations they have chosen. Music Performance allows students to participate in different musical organizations; however, students do not earn multiple credits for participating in more than one organization.

PHYSICAL EDUCATION / HEALTH / DRIVER EDUCATION

For all physical education classes, students are required to furnish their own pair of red athletic shorts, a white or gray T-shirt (with school appropriate logos or slogans), athletic sneakers, and socks as their uniform for Physical Education classes. **Students are required to participate in each class. Student absences must be made up by arrangement with the teacher.**

PHYSICAL EDUCATION:

Personal Fitness & Sport I	Grade 9	Weight 1.0	.5 Credit/Semester
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This is a required course designed to give students the knowledge and skills of movement that provide the foundation for enjoyment and continued social development through physical activity and access to a physically active lifestyle. The basic purpose is to motivate students to strive for lifetime personal fitness with an emphasis on the five health-related components of physical fitness. The knowledge and skills taught in this course include the process of becoming fit as well as achievement of some degree of fitness within the class through fitness activities, individual and team sports. Fitness testing and goal setting will be part of this course.

Personal Fitness and Sport II	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Personal Fitness and Sport I, with a passing grade. This is a required course designed to give the students the knowledge and skills to assess their fitness levels and develop their personal fitness plan. Students will be introduced to various forms of fitness technology including heart rate monitors, pedometers and cardiorespiratory fitness machines. Course curriculum also includes advanced fitness concepts including the FITTE principle overload, specificity, reversibility, phases of periodization, and heart rate training zones. Fitness testing and goal setting will be part of this course.

Competitive Sports For Fitness	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Personal Fitness and Sport I, with a passing grade. Course is designed to give students the opportunity to compete in a competitive environment in various sports and fitness challenges. Sports and challenges will be used to improve fitness levels and teach valuable fitness concepts. Fitness testing and goal setting will be part of this course.

Physical Education, Adaptive	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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Provides opportunities for appropriate physical activity within the regular or adaptive physical education program. Special activities are provided according to the student's ability and as prescribed by a physician. Each student has the opportunity to develop a recreational capacity in a variety of seasonal and lifelong activities.

Weight Training/Conditioning I	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Personal Fitness and Sport I, with a passing grade. Teaches the importance and benefits of weight training and conditioning by focusing on several areas directly related to physical fitness. Students are exposed to a variety of physical education and health topics, including nutrition, aerobic/anaerobic activities, flexibility, plyometrics, human anatomy, and weight training principles. Each student develops individual weight lifting and conditioning programs at the end of the first quarter marking period. Students exercise according to their program during the second quarter marking period. Once a month, students re-evaluate their program to recognize individual improvements. After determining their monthly progress, students adapt their programs to promote future improvement. The second marking period consists of a final evaluation of each student's exercise program as well as time to focus on some general physical education activities. Fitness testing and goal setting will be part of this course.

Weight Training/Conditioning II	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Weight Training and Conditioning I, with a passing grade. Focuses on the implementation of the Bigger, Faster, Stronger (BFS) program. This course is a comprehensive conditioning program for athletes and prospective athletes. Students will be assessed throughout the marking periods on individual positive physical development. Students must also keep accurate records of their activities and progress. Students will learn and be able to properly demonstrate many Olympic core exercises and plyometrics, as well as related auxiliary exercises, according to the BFS program. Fitness testing and goal setting will be part of this course.

Yoga/Pilates I	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Personal Fitness and Sport I, with a passing grade. This yoga class will combine movement and poses with breath control and meditation techniques. It will promote concentration, flexibility, strength, endurance and relaxation. This invigorating sequence of yoga moves, balance poses, and breathing will help to reduce stress and anxiety and to promote overall health. The use of hand held weights, exercise balls, and other fitness equipment will further improve muscular endurance and strength. This is a challenging class open to everyone who wants an exhilarating yoga experience. Fitness testing and goal setting will be part of this course.

Yoga/Pilates II	Grades 10,11,12	Weight 1.0	.5 Credit/Semester
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Prerequisite: Yoga/Pilates I, with a passing grade. This advanced Yoga class will continue to combine movement, muscular strength and endurance along with cardiovascular fitness at a **higher skill level**. This yoga class will continue to incorporate breath control and meditation techniques. It will promote concentration, flexibility and relaxation. The use of hand held weights, exercise balls, and other fitness equipment will further improve your overall health. This invigorating sequence of yoga moves, balance poses, and breathing will help to reduce stress and anxiety and to promote overall health. Fitness testing and goal setting will be part of this course.

HEALTH:

Health I	Grade 9	Weight 1.0	.5 Credit/Semester
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Designed to acquaint students with topics of health education. Subjects covered include alcohol, drugs, tobacco, human sexuality (including an extensive study of HIV, AIDS, and related material), and mental health. Within the mental health unit such topics as emotions, behavior, self-concept improvement, communication skills, anorexia, and suicide are discussed. Students are placed into sections according to teacher and counselor recommendations. In compliance with state mandates, an AIDS education course is covered during the human sexuality unit.

Health II	Grade 11	Weight 1.0	.5 Credit/Semester
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Prerequisite: Health I, with a passing grade. Designed to acquaint students with various topics of health education. Subjects covered include death and dying, prudent heart living, skeletal and muscular systems, chronic diseases, and fitness and consumer education. Students are placed into sections according to teacher and counselor recommendations.

DRIVER EDUCATION:

Driver Education	Grade 10	Weight 1.0	.5 Credit/Semester
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The Pennsylvania State approved program consists of two parts, 75 hours of classroom theory and 6 hours of in-car driving. The classroom part covers problems of vehicles, roads, and people involved in highway safety. While not designed to develop auto mechanics or highway engineers, it does provide enough knowledge for the student to grasp a better concept of the problem of highway safety and to develop better attitudes toward driving. The in-car training consists of 6 hours. Students are eligible to enroll in the in-car phase after obtaining a learner's permit. Students learn the proper handling of an automobile in good weather and bad. **There is a fee for in-car training.** As students register, they are placed on the driving list. Students must pass both parts of the program in order to obtain a certificate for an insurance discount. Having passed both parts of the program, students can qualify for a senior license before the age of 18. *Ninth grade students may enroll only if they are 16 before the first day of 9th grade.*

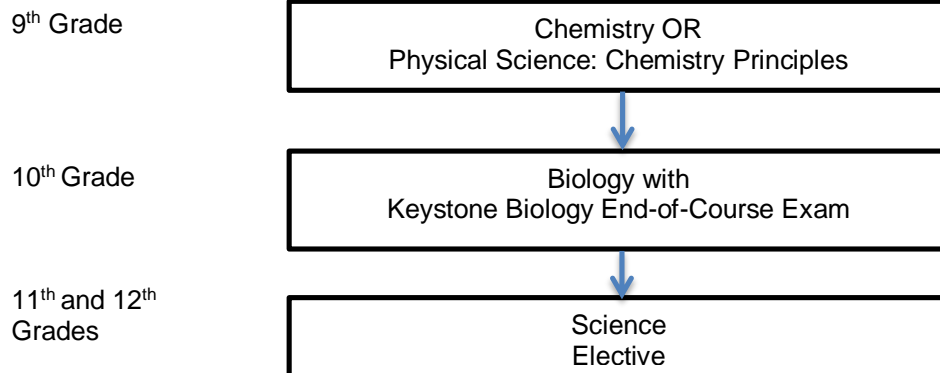
ELECTIVES:

Exercise Science	Grades 11,12	Weight 1.0	1 Credit/Year
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Prerequisite: Personal Fitness and Sport I and II, with passing grades. This course is designed for students interested in exploring careers in personal fitness, physical education, physical therapy, health promotion, wellness coaching, and strength and conditioning coaching. Students will spend half of the course in a classroom setting and half will be spent in a physical activity. Students will be exposed to various forms of health and fitness technology, including heart rate monitors, pedometers, accelerometers, body fat analyzers, fitness apps and extensions. Fitness testing will be part of this course. A physical education uniform is required during activity days.

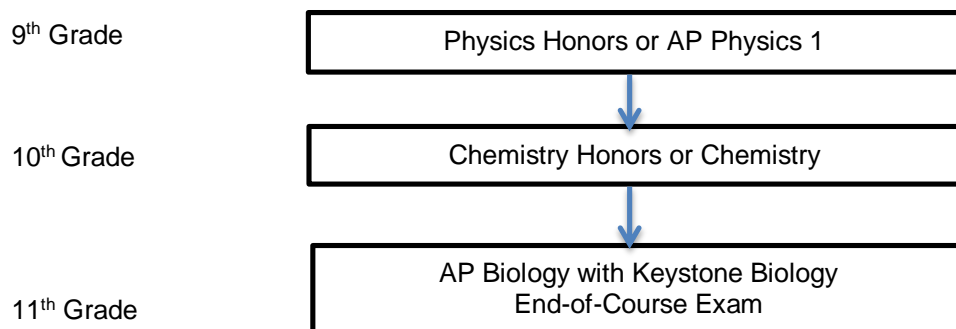
SCIENCE

9th Grade Chemistry Start



NOTE: Electives may also be taken during the 10th, 11th and 12th grade year.

9th Grade Physics Start



NOTE: Electives may also be taken during the 10th, 11th and 12th grade year.

A good candidate for this option is a student who scored Advanced on the Algebra I Keystone Exam AND Advanced or Proficient on the 8th grade PSSA Science Exam.

The student who selects this option will take the Biology Keystone as an end-of-course exam his/her junior year.

ELECTIVES

Biology

Biotechnology
Intro to Anatomy and Physiology
AP Biology
Human Biology

Integrated

Environmental Science
AP Environmental Science
Crime Scene Investigation

Chemistry

Chemistry II
AP Chemistry

Physics

AP Physics 1
Physics (H)
AP Physics C
Physical Science: Principles of Physics

Earth Science

Earth and Space Science

- A student who is preparing to go to college should select courses weighted 1.1 and higher.
- All students who are preparing to major in science in college should select 1.2 weighted courses as well as electives that allow the student to take second-level science courses in the intended major.
- All science courses are laboratory-based courses.
- Integrated science courses incorporate concepts from all science content areas.

Students who do not demonstrate proficiency on the Keystone Biology exam may be required to successfully complete the Human Biology course.

Biotechnology	Grades 10,11,12	Weight 1.2	1 Credit/Year
<i>Teacher recommendation is preferred.</i> An elective laboratory science class focusing on the DNA molecule. Students will learn about the structure and function of the DNA molecule, protein synthesis, and DNA manipulation. Topics include DNA fingerprinting, gel electrophoresis, PCR, genetic engineering, genetic testing and inheritance, and the ethics of biotechnology. The course includes independent research, in-class activities and laboratory work. This course is an elective that does not exempt students from the biology requirement.			
Biology	Grades 10,11	Weight 1.1	1 Credit/Year
Students will explore the key concepts of biology as they describe the relationship of molecules to living organisms. Guided inquiry lessons and investigations will enable the student to explain the structural and functional similarities and differences found among living things, describe and explain the chemical and structural basis of living organisms, describe how genetic information is inherited and expressed, and explain the mechanisms of the theory of evolution. Students will take the Pennsylvania state end-of-course Keystone Biology exam in May.			
AP Biology	Grades 11,12	Weight 1.3	1 Credit/Year
<i>Prerequisite: Chemistry Honors or Chemistry. Teacher recommendation is preferred.</i> This course is designed to be the equivalent of a college introductory biology course taken by biology majors during their first year. It provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology and to gain an appreciation of science as a process. <i>It is highly recommended that students have a simple four-function calculator with square root for the AP Biology exam.</i> Assignments include pre- and post-lab writings, reading, research, and preparation for individual and/or group presentations/projects. AP Biology is a rigorous course that will require time and effort both in and out of the classroom to master the subject and prepare for the exam. There is a summer assignment for this course. <i>Students are expected to take the AP exam for college credit in May.</i>			
Introduction to Anatomy and Physiology	Grades 11, 12	Weight 1.2	1 Credit/Year
Designed for students who desire increased knowledge in human anatomy and physiology—those who plan careers in nursing, biology, and allied medical professions or other related fields. This course will provide a basic understanding and working knowledge of the human body. Areas of study will include organization of the human body, principles of support and movement, control systems of the human body, maintenance of the human body and continuity of life. This is a laboratory science course that will include mammalian dissection.			
Physical Science: Chemistry Principles	Grades 9	Weight 1.0	1 Credit/Year
A Chemistry course that presents real-world connections to chemistry concepts. This course will use the inquiry approach as students study topics of atomic structure, chemical reactions, behavior of gases, and solutions. Students will combine the concepts of real-world chemistry with basic algebra skills. Recommended for students who are enrolled in Algebra 1. <i>It is highly recommended that students have a basic calculator.</i>			
Chemistry	Grades 9,10,11,12	Weight 1.1	1 Credit/Year
The study of chemistry is the study of matter and its changes. The concepts of atomic and molecular structure, as well as reactions of inorganic substances, are emphasized. Course focus includes complex problem solving and proportional out-of-class preparatory time <i>It is highly recommended that students have a scientific calculator.</i>			
Chemistry (H)	Grades 10,11,12	Weight 1.2	1 Credit/Year
<i>Prerequisite: Physics (H) or Chemistry. Teacher recommendation is preferred.</i> An algebra based chemistry course that presents real-world connections to chemistry with a strong emphasis on problem solving. Students will study atomic and molecular structure, chemical reactions, mole, stoichiometry, gas laws, solutions, and acid/base chemistry. The fast paced course will require the student to do significant out-of-class preparation. <i>It is highly recommended that students have a scientific calculator.</i>			
Chemistry II	Grades 10, 11,12	Weight 1.2	1 Credit/Year
<i>Prerequisite: Chemistry.</i> This course is an academic science designed for students who plan to do further study in the science field or related subjects. Focus on complex problem solving, selected required memorization and proportional out-of-class preparatory time. Deals with major problems most often encountered by college freshmen science students. Forty percent of the work is on theory, 40% on problem solving, and 20% on lab work. <i>It is highly recommended that students have a scientific calculator.</i>			

AP Chemistry	Grades 11, 12	Weight 1.3	1 Credit/Year
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Prerequisite: Chemistry. Teacher recommendation is preferred. Designed to be the equivalent of a college introductory chemistry course taken by chemistry or other science majors during their first year. Provides students with an understanding of chemistry fundamentals, a laboratory experience equivalent to a typical college course, and a competence in solving chemical problems (emphasis placed on chemical calculations and mathematical formulation of principles). Assignments include frequent lab reports, weekly problem sets, and weekly quizzes. AP Chemistry is a rigorous course that will require significant time and effort both in and out of the classroom. There is a summer assignment for this course. *It is highly recommended that students have a scientific calculator. Students are expected to take the AP exam for college credit in May.*

Environmental Science	Grades 10,11,12	Weight 1.1	1 Credit/Year
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Students will develop an awareness of basic ecological principles and gain insights about the interrelatedness of humans, their culture and their biophysical surroundings. This course presents an overview of ecology with an emphasis on man's influence—both positive and negative. An inquiry approach will be used to explore such topics as water, air, soil, food supply, energy, endangered species, pollution, and current issues. Students should complete the course equipped to make intelligent decisions about environmental issues.

AP Environmental Science	Grades 11,12	Weight 1.3	1 Credit/Year
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Teacher recommendation is preferred. This course is designed to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, along with the ability to analyze and identify environmental problems, to evaluate the risks associated with these problems, and to examine solutions for resolving and/or preventing them. Focuses on the “real science” behind environmental problems and issues. Laboratory and field study are important elements of the preparation for the individual and/or group presentations/projects. AP Environmental Science is a college level course and requires considerable reading outside the classroom. An ongoing, individual site-study and analysis are also required. *Students are expected to take the AP exam for college credit in May.*

Physics (H)	Grades 9,10,11,12	Weight 1.2	1 Credit/Year
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Teacher recommendation is preferred. This is an algebra-based physics course that presents real-world connections to physics concepts and mathematics. Uses an inquiry approach with an emphasis on mathematical computations and problem solving. Students will study forces and motion, energy in systems, matter, electricity, magnetism, sound, and light. Strong algebra skills are necessary for success in this course *It is highly recommended that students have a scientific calculator.* Recommended for students who are enrolled in Algebra II.

It is recommended that a 9th grade student who chooses this option is one who scored Advanced on the Algebra I Keystone exam and Advanced or Proficient on the 8th grade PSSA Science exam.

Physical Science: Physical Principles	Grades 10,11,12	Weight 1.0	1 Credit/Year
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This is an algebra-based physics course that presents real world connections to physical concepts and mathematics. Using an inquiry approach, students will study forces and motion, energy in systems, matter, electricity, magnetism, sound, and light. Students will combine the concepts of real world physics to strengthen skills acquired in Algebra I. Students are expected to apply algebra skills to problem solving. It is *highly recommended that students have a basic calculator.* This course is recommended for students who have successfully completed Algebra I and are in Geometry or Algebra II.

AP Physics 1	Grades 9,10,11,12	Weight 1.3	1 Credit/Year
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Prerequisite: Algebra II, Advanced in the Algebra I Keystone Exam (9th graders). Teacher recommendation is preferred. This is an algebra-based physics course that is designed to be the equivalent of a college introductory course. AP Physics I provides the student with an in-depth understanding of factual knowledge and analytical skills needed for success in a rigorous problem-solving environment. Assignments will include labs, reading research, and tests and quizzes as seen in the AP format. This is a rigorous course that will require extensive work both in and out of the classroom to prepare for the AP exam. It is *highly recommended that students have a scientific calculator. Students are expected to take the AP exam for college credit in May.*

AP Physics C	Grades 10,11,12	Weight 1.3	1 credit/Year
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Prerequisite: 9th grade Physics Honors or Physics. *Teacher recommendation is preferred.*

Designed to be the equivalent to a first-year college course, AP Physics provides the student with an in-depth understanding of factual knowledge and analytical skills needed for success in a rigorous problem-solving environment. Assignments will include labs, reading, research, and test and quizzes as seen in the AP format. AP Physics is a rigorous course that will require extensive work both in and out of the classroom to prepare for the AP exam. *It is highly recommended that students have a scientific calculator. Students are expected to take the AP exam for college credit in May.*

Earth and Space Science	Grades 10,11,12	Weight 1.0	1 Credit/Year
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This course is designed to provide an introduction to the four major spheres of Earth and the solar system. An inquiry approach will be used to explain Earth's formation, processes, history, landscapes and changes over time. Students may study Earth's surface, minerals, rocks, plate tectonics, earthquakes, volcanoes, geologic time, meteorology, our solar system and the universe.

Crime Scene Investigation	Grades 10,11,12	Weight 1.0	1 Credit/Year
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This course is designed to provide an introduction to some of the topics in forensic science that are used in crime scene investigations. Topics may include: basic examination of crime scenes, fingerprints, hair and fiber analysis, ballistics and firearms, and blood analysis. Classes will include lab activities and group discussion. Students will be expected to "think like an investigator" and be able to support any results or conclusions with appropriate evidence. This course may include pictures and descriptions of real crimes.

Human Biology	Grades 11,12	Weight 1.0	1 Credit/Year
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Human Biology may be required for students who score Basic or Below Basic on the Biology Keystone Exam at the end of their Biology course. This course is designed to meet the students' needs, based upon the Pennsylvania Biology Standards. Students will take the Keystone Biology Exam in December. This course would fulfill the Biology remediation/project for students not proficient on the Biology Keystone Exam.

The Keystone Biology Exam is given as an end of course exam in May. Students who score in the Basic and Below Basic categories may be required to take a science course that includes the Biology standards necessary to ensure students have the opportunity to prove proficiency on those standards and retake the Biology Keystone.

SOCIAL STUDIES

There are different levels in the social studies classes. Students are placed into academic or advanced placement. Students are placed into sections according to teacher and counselor recommendations and a review of academic records. Parental approval is also required.

Human Geography	Grade 11	Weight 1.1	1 Credit/Year
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Major emphasis is on the development of cultures and conflicts in the modern world. The course emphasizes an understanding of global society, its people, their cultures, and causes for conflict. By the end of the course, students will be able to (1) understand the discipline of geography, including its tools, themes, and concepts; (2) think critically about geographic problems on the global, national, and local scales; (3) appreciate the diversity of global cultures, including their cultural and economic characteristics; (4) and understand how cultural landscapes are created and how they change over time.

AP Human Geography	Grade 11	Weight 1.3	1 Credit/Year
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Successful completion of other social studies courses and teacher recommendation are preferred. This course explores human understanding, use, and alteration of the earth's surface from a cultural geographic perspective. The class will consider both the spatial character of human occupancy of the earth and the role of humans in shaping the earth's environments and landscapes. By the end of the course, students will be able to (1) understand the discipline of geography, including its tools, themes, and concepts; (2) think critically about geographic problems on the global, national, and local scales; (3) appreciate the diversity of global cultures, including their cultural and economic characteristics; and (4) understand how cultural landscapes are created and how they change over time. (This can supplement the Global Cultures and Conflicts course.) Due to the demanded rigor of AP, there will be numerous independent reading, writing, and research assignments. There will also be summer work requirements. *Students are expected to take the AP exam for college credit in May.*

Introduction to Sociology	Grades 11,12	Weight 1.1	.5 Credit/Semester
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This semester course is an elective, which introduces students to the study of society, social institutions and social relationships. Topics including the sociological perspective and sociological research methods, culture, socialization and social structures, deviance and social control, social psychology, racial and ethnic inequality, gender and age stratification, family, education, political and economic institutions, religion and health, medicine and health care will be addressed. In the final weeks of the semester, students will investigate two contemporary sociological topics of their choice. These topics will serve as the basis for self-directed projects. There are no prerequisites for course enrollment.

Introduction to Psychology	Grades 11,12	Weight 1.1	.5 Credit/Semester
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This semester course is an elective, which introduces students to the basic principles and theories of psychology. Topics including the psychological perspective, biological psychology, learning and intelligence, cognition, motivation, emotion and personality, psychological disorders and the treatment of psychological disorders will be addressed. In the final weeks of the semester, students will investigate two contemporary psychological topics of their choice. These topics will serve as the basis for self-directed projects. There are no prerequisites for course enrollment.

AP Psychology	Grades 11,12	Weight 1.3	1 Credit/Year
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This college-level course is an overview of psychological principles and theories. It stresses the history and approaches to psychology, psychological research methods, biological bases of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality, testing and individual differences, abnormal behavior, treatment of abnormal behavior and social psychology. Students may take this class for credit even if they previously earned credit for Introduction to Psychology. In comparison to Introduction to Psychology, several additional topics are addressed in this course; the depth in which students explore all topics is greater, focusing more on current research and trends and the application of theoretical psychological principles. The rigor of an Advanced Placement course requires that numerous reading, writing and research assignments be completed independently. Successful completion of other upper level courses is preferred. Previous exposure to statistics and human biology may be beneficial to students but is certainly not required to ensure success in this course. *Students are expected to take the AP exam for college credit in May.*

United States Government & Economics	Grade 12	Weight 1.1	1 Credit/Year
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This course provides students with an introduction to the United States' system of government and politics. Particular attention is paid to the constitutional foundations of the United States; the political beliefs and behaviors of Americans; the roles played by political parties, interest groups, the mass media and elections and campaigns in the political process; the branches of the federal, state and local governments; state and local government and politics, focusing particularly on the Commonwealth of Pennsylvania and York County; civil rights and civil liberties and the making and implementation of public policies at all levels of government. This course also provides students with an introduction to basic macroeconomic and microeconomic concepts, theories and practices. Particular attention is paid to the factors of production; opportunity cost; personal finance, saving and investment; supply, demand and market equilibrium; the elasticity of supply and demand and market efficiency; externalities including government intervention and taxes and public goods and choices.

United States Government and Politics Online	Grade 12	Weight 1.1	1 Credit/Year
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This course provides students with an introduction to the United States' system of government and politics. Particular attention is paid to the constitutional foundations of the United States; the political beliefs and behaviors of Americans; the roles played by political parties, interest groups, the mass media and elections and campaigns in the political process; the branches of the federal, state and local governments; state and local government and politics, focusing particularly on the Commonwealth of Pennsylvania and York County; civil rights and civil liberties and the making and implementation of public policies at all levels of government. This course also provides students with an introduction to basic macroeconomic and microeconomic concepts, theories and practices. Particular attention is paid to the factors of production; opportunity cost; personal finance, saving and investment; supply, demand and market equilibrium; the elasticity of supply and demand and market efficiency; externalities including government intervention and taxes and public goods and choices. Due to the independent nature of this course, high degrees of self-discipline and self-motivation are required.

AP United States Government and Politics	Grade 12	Weight 1.3	1 Credit/Year
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This college-level course provides students with the opportunity to gain a holistic understanding of the United States' system of government and politics. Particular attention is paid to the constitutional foundations of the United States, the political beliefs and behaviors of Americans, the roles played by political parties, interest groups, the mass media and elections and campaigns in the political process, the branches of the federal government, civil rights and civil liberties and the making and implementation of public policies. The rigor of an Advanced Placement course requires that numerous reading, writing and research assignments be completed independently. Successful completion of other social studies courses and teacher recommendation are preferred.

Students are expected to take the AP exam for college credit in May.

United States History I	Grade 9	Weight 1.1	1 Credit/Year
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This course covers United States History (1865-1945), which is a basic domestic policy history of the major political, economic, and social events and issues of the year, from the Reconstruction period following the Civil War to the conclusion of World War II in 1945. The major objective is to expose students to events and forces that have created the political, economic, and social institutions of our society. From this course, students should have a better understanding of their nation, its institutions, and their role in our society.

United States History (Pre-AP)	Grade 9	Weight 1.3	1 Credit/Year
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This class is recommended for those who plan on taking AP courses throughout their high school tenure. This course covers United States History (1865-1945), which is a basic domestic policy history of the major political, economic, and social events and issues of the year, from the Reconstruction period following the Civil War to the conclusion of World War II in 1945. The major objective is to expose students to events and forces that have created the political, economic, and social institutions of our society. From this course, students should have a better understanding of their nation, its institutions, and their role in our society. Due to the demanded rigor of AP, there will be numerous independent reading, writing, and research assignments. There also may be summer work requirements.

United States History II	Grade 10	Weight 1.1	1 Credit/Year
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This course covers domestic affairs and foreign policy from 1945 to the present. It is organized as a chronological approach to studying the political, economic, and social history of the U.S. during the latter half of the 20th Century. The major goal of the course is to expose students to those modern events and forces that have shaped our present society and its institutions. From this course, students should have a better understanding of their role as citizens in a pluralistic democratic society.

AP United States History	Grade 10	Weight 1.3	1 Credit/Year
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Successful completion of previous social studies courses and teacher recommendation are preferred. A college-level course using college-level text and a variety of supplementary materials. Examines the entire scope of United States history from exploration to the 21st century. Exposes students to the pertinent information and skills needed to prepare for the Advanced Placement United States History Examination for possible college credit. Good writing skills are an integral part of this course and will be considered in the recommendation of each student. (This course can supplement the United States History 10 course.) Due to the demanded rigor of AP, there will be numerous independent reading, writing, and research assignments. There will also be summer work requirements. *Students are expected to take the AP exam for college credit in May.*

TECHNOLOGY EDUCATION

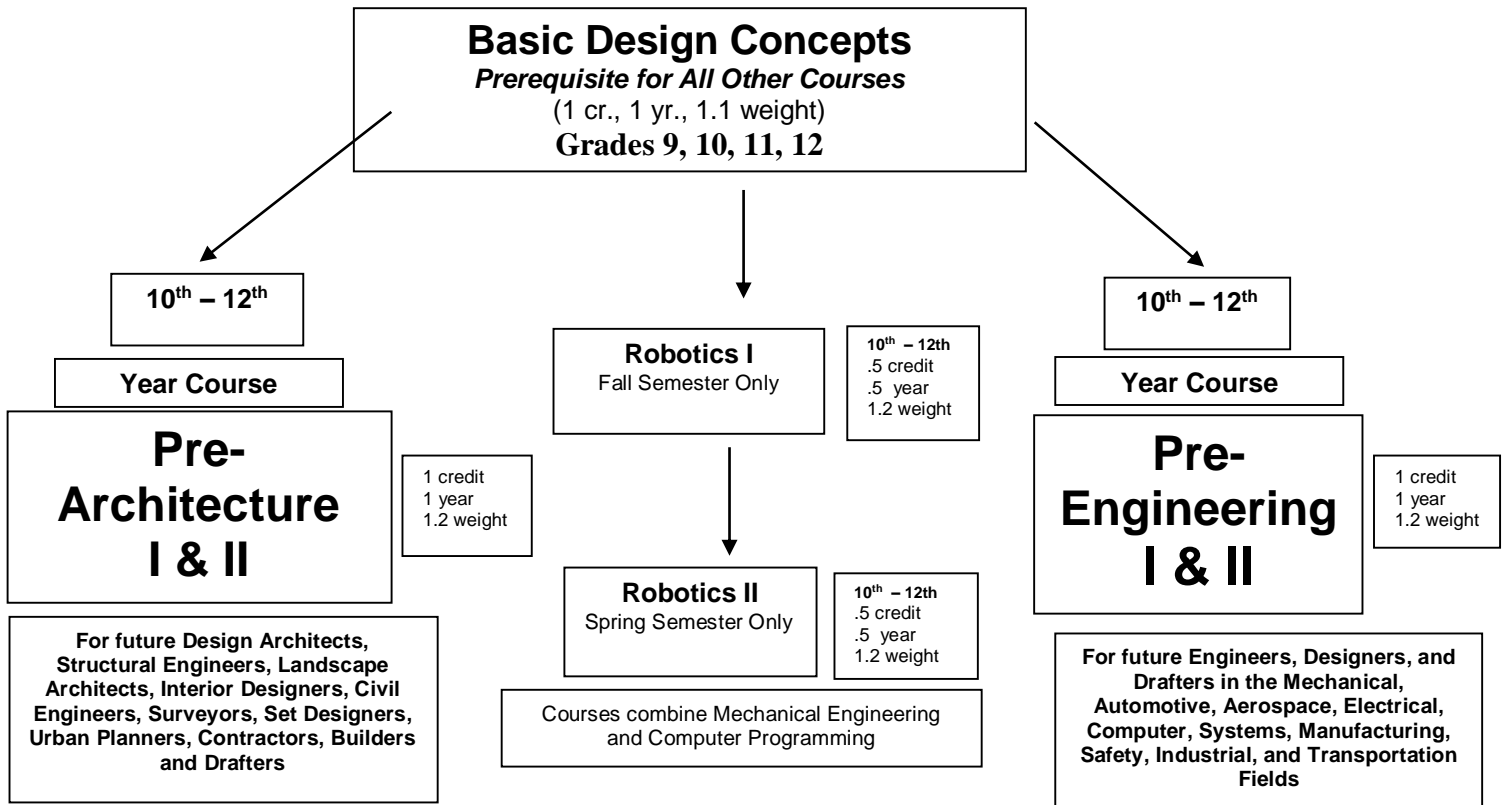
Our world is made possible by technology. Technology encompasses all of our human-made products and structures. In short, if you have it or use it and it is not naturally occurring in our world, then it has been created by our technological progress. The technology education department offers materials courses in metal and wood, power technology courses, and design, planning, and computer-aided-drawing courses of study. All students thinking about a career in a technical field are encouraged to enroll in either the exploratory materials course, Technology Education I (TE), or the introductory course for engineering, robotics, and architecture, called Basic Design Concepts (BDC).

Technology Education	Grades 9,10,11,12	Weight 1.0	.5 Credit/Semester
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TE is a hands-on course where students are expected to pay a fee for materials used to construct take-home projects.

- Students thinking about a career in a technical field are encouraged to enroll in this two-part course. Technology Education (TE) introduces students to wood and power technology throughout the semester. Students explore a man-made world and learn about potential careers by constructing projects. Successful completion of TE will position students favorably for upper-level technology courses in successive years. *TE is a hands-on course where students are expected to pay a fee for materials used to construct take-home projects.*
- Wood Technology – Basic cabinet-type woodworking that requires students to select a project, do a project drawing, complete a bill of materials, and write a plan of procedure. Course covers planning, design, safety, wood technology, correct use of layout tools and hand tools, the basic operation of various woodworking machinery, construction techniques, and finishing. Careful attention is given to safety and proper use of tools and equipment. Classroom lectures, demonstrations, individual instruction, films, and hands-on experiences are used in the instructional process. The objective is to enrich the students' skills acquired in middle school and broaden concepts, knowledge, and understanding of our technical society.
- Power Technology – Introductory one-quarter course designed to provide an overview of energy, power, and transportation systems. Includes classroom lectures, multimedia presentations, demonstrations, individual instruction, video, and practical hands-on problem solving activities. Areas of study include lab safety; energy sources; marine, land, air, and space transportation systems; simple machines; and the transfer of energy.

ARCHITECTURE, ENGINEERING & DESIGN



Basic Design Concepts (BDC)	Grades 9,10,11,12	Weight 1.1	1 Credit/Year
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This introductory-level design course is a prerequisite for all other design and engineering courses at SHS. Designing is the progression of an original idea from conception to reality. Drafting, often called the “language of industry,” is the precise development of drawings to communicate the designer’s intentions for one’s product. Learn how to represent three-dimensional objects in two-dimensional space. Designers are visual thinkers, so emphasis is placed on developing individual talents to gain confidence to completely and properly express original ideas. A variety of methods will be used, but the main tools are sketching, mechanical drawing, and computer-aided-design, using Auto CAD™ software. It is important to foster creativity, while developing technical competency. This course is the first step in an SHS pathway for future architects, engineers, and designers. Students who anticipate a career in any graphic or technical design field are encouraged to take this class as early as possible in their high school career. *It is highly recommended that students purchase a computer storage device and drafting kit. Successful completion of this course satisfies the technology graduation requirement.*

Pre-Architecture I	Grades 10, 11, 12	Weight 1.2	1 Credit/Year
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Prerequisite: *Basic Design Concepts (BDC); Teacher recommendation is preferred.* Architecture is the study of buildings. How do students design buildings that both look attractive and stay standing? In Pre-Architecture I, students will explore the world of architecture and related professions. Students intent on or thinking about becoming a design architect, architectural engineer, interior designer, landscape architect, contractor, or civil engineer will find this course valuable. Students will build upon the battery of design skills learned in the BDC class. Basic architectural vocabulary, material selection, structural requirements, and site considerations are introduced, while computer-aided-design skills are furthered. Two- and three-dimensional working drawings will be prepared using multiple computer design software tools from AutoDesk™. However, designing a home for aesthetics is only part of the design process for architecture. Making sure the building is safe for humans to occupy is critical. Structural engineers use the design process to determine construction methods and to choose building materials. Students develop problem-solving skills by creating unique solutions to given structural challenges. Demonstrating an understanding of architectural engineering is accomplished through technical reporting. This course allows students a chance to synthesize the knowledge and concepts learned in previous math, science, and technology classes. Juniors and seniors without BDC, but with a strong math and science background, are encouraged to seek teacher permission to take Pre-Architecture I. *It is highly recommended that students purchase a computer storage device, and a drafting kit. The cost of any additional construction materials, not supplied by SHS, is the student’s responsibility.*

Pre-Architecture II	Grades 11, 12	Weight 1.2	1 Credit/Year
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Prerequisite: *Pre-Architecture I.* Advanced course provided for students who aspire to be design architects, structural architects, landscape architects, civil engineers, or work within other construction-related professions. Advanced architectural vocabulary, room layout, material selection, structural considerations, and advanced computer-design skills are emphasized. Students will design a larger, multi-level home with more details and builder specifications than the home they completed in the first-level course. This course allows a student to develop a full set of plans using AutoCAD™ and the three-dimensional design software from Auto Desk™ called Revit™. *It is highly recommended that students purchase a computer storage device, and a drafting kit. The cost of any additional construction materials, not supplied by SHS, is the student’s responsibility.*

Pre-Engineering I	Grades 10, 11, 12	Weight 1.2	1 Credit/Year
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Prerequisite: *Basic Design Concepts (BDC); Teacher recommendation is preferred.* Engineering can be defined as the application of science to meet the needs of humanity. Experts often consider mechanical engineering as the basis for all other engineering disciplines. With that in mind, students will learn how mechanisms work. Students will examine and endeavor to solve complex mechanical design problems. In addition, students will use advanced AutoCAD™ capabilities and AutoDesk™ Inventor three-dimensional design software to create their plans. This course builds on BDC by covering more sophisticated communication methods for your original design ideas. Cars, planes, toys, electronic goods, and consumer products are just a few of the many items that need to be described by engineers before they can be manufactured. Topics include selection of views, measuring, dimensioning, pictorials, and surface developments. Thinking and problem solving skills are stressed. The hands-on portion of Pre-Engineering I requires us to remember that our human-built world is the product of creativity, innovation, and inventiveness. Problem-solving skills are necessary to solve engineering challenges. Students will demonstrate an understanding of engineering by building a prototype of their idea, testing it and then reporting what they have learned. Engineering and design professions are in high demand in our technological society. This course is recommended for students with career interests in engineering, electronics, computers, automotive, aeronautical, consumer product design, machine trades, and drafting occupations. Students will synthesize the knowledge and concepts learned in previous math, science, and technology classes. Juniors and seniors without BDC, but with a strong math and science background, are encouraged to seek teacher permission to take Pre-Engineering I. *It is highly recommended that students purchase a computer storage device, and a drafting kit. The cost of any additional construction materials, not supplied by SHS, is the student’s responsibility.*

Pre-Engineering II	Grades 11, 12	Weight 1.2	1 Credit/Year
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Prerequisite: Pre-Engineering I The human-built world is the product of a process we call engineering design. It is the result of human creativity, innovation, and inventiveness. Engineering and design professions are in high demand in our technological society. This course further develops problem-solving skills by creating unique solutions to given challenges by building multiple projects. The course allows students a chance to synthesize the knowledge and concepts learned in previous math, science, and technology classes. Topics and projects focus on machines, individual mechanisms and vehicles, and explore how things move to perform work. Students who are considering a career path in engineering are exposed to complex mechanical design concepts. In addition, students will learn advanced AutoCAD™ capabilities as well as AutoDesk Inventor™ three-dimensional design software. Costs of any additional construction materials not supplied by the school are the student's responsibility.

Robotics I (ROBOI) (Fall Only)	Grades 10, 11,12	Weight 1.2	.5 Credit/Semester
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Prerequisite: Basic Design Concepts (BDC); Teacher recommendation is preferred. Robotics is a combination of mechanical engineering and computer programming. This multi-faceted course uses an inquiry-based approach to demonstrate that successful robotic design requires form to follow function. Concepts and knowledge learned in previous math, science, technology, and computer classes are combined to solve technical design challenges.

College recruiters and employers look for capable problem solvers. Students will learn both the hardware components of the Lego Mindstorms™ robotic system and the powerful RoboLab™ programming language that allows users to control models that automatically perform specific tasks. Juniors and seniors without BDC, but with a strong math and science background, are encouraged to seek teacher permission to take Robotics I. *It is highly recommended that students purchase a computer storage device and 12 AA batteries.*

Robotics II (ROBOII) (Spring Only)	Grades 10, 11,12	Weight 1.2	.5 Credit/Semester
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Prerequisite: Robotics I. In this class, you will expand your robotics design skills. This course continues an inquiry-based approach where you complete challenges. Both independent and group work are required. Advanced mechanical engineering and computer programming solutions are necessary for successful course completion. Students continue to synthesize concepts and knowledge learned in Robotics I and previous math, science, technology, and computer classes.

College recruiters and employers look for capable problem solvers. Students will learn both the hardware components of the LegoNXT™ robotic system and the powerful RoboLab™ programming language that allows users to control models that automatically perform specific tasks. *It is highly recommended that students purchase a computer storage device and 12 AA batteries.*

METAL TECHNOLOGY:

Metal Technology I	Grades 9,10,11,12	Weight 1.0	1 Credit/Year
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Provides the opportunity for students to broaden their knowledge of metal technology as it relates to our changing technical society. This is an intermediate course in metal fabrication that requires students to select a project(s), do project drawings, and come up with a plan of procedures. Project making is considered secondary to the development of a working knowledge of materials, tools, equipment, and processes. Classroom lectures, demonstrations, individual instruction, films, current events, and actual hands-on experiences are used in the instrumental process. Areas covered: welding (both arc and rig), soldering, sheet metal work, foundry work, forging, safety and proper use of metal hand tools and machines.

Students are expected to pay for all projects created, which the instructor must pre-approve.

Metal Technology II, III, & IV	Grades 10,11,12	Weight 1.0	1 Credit/Year
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Prerequisite: *Metal Technology I. Teacher recommendation is preferred. Courses must be taken in sequential order.*

Advanced course designed to provide students with an in-depth and concentrated study of specific areas in metalworking. In addition to the areas of sheet metal, foundry, welding, and forging, new areas utilizing machine technology (surface grinder, lathe, and milling machine), precision measurement, materials testing, art metal, and pattern making are introduced and studied. Students will be required to do written work (tests, quizzes, shop math problems) but also will receive time to develop products involving each of the major areas and processes in the metal lab. Emphasis is placed on shop safety and creative problem solving.

Areas covered: welding (both arc and oxygen acetylene), brazing, sheet metal work, soldering, planning, layout, metal identification, safety, taps and dies, drill press work, forging chisels, rivets and riveting, reamers, spinning lathe, metal lathe, milling machine, surface grinder, heat treatment, spot welding, precision measuring and foundry.

Projects will be of an advanced nature. Students will draw a plan, make a bill of materials, and make up a sequence of operation before starting a project. Instructor must consider this satisfactory before students will be permitted to begin work in the lab.

These are advanced courses and will be conducted as such. *Students are expected to pay for all materials used in construction for lab requirements and projects.*

POWER TECHNOLOGY:

Electronics	Grades 11,12	Weight 1.0	1 Credit/Year
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An advanced course for students planning to enter the field of electronics, engineering, or related technical areas. Covers D.C. and A.C. circuits, semiconductor devices, linear circuits, microcomputer basics, schematic and wiring diagrams using CAD, circuit layout, manufacturing, component soldering, and test equipment usage and operation.

Students are expected to pay for all projects made in class.

Power Technology I	Grades 9,10,11,12	Weight 1.0	1 Credit/Year
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Introductory course designed to provide a study in energy, power, and transportation systems. This course is presented through classroom lectures, multimedia presentations, demonstrations, individual instruction, video, and practical hands-on problem solving activities. Areas of study include lab safety; careers; marine, land, air, and space transportation systems; external combustion engines; two- and four-stroke internal combustion engines; mechanical control and power conversion; renewable, nonrenewable, and alternative energy sources; basic electronics and D.C. circuits; fluidics; and robotic design and development.

Students are expected to pay for all projects made in class.

Power Technology II, III & IV	Grades 10,11,12	Weight 1.0	1 Credit/Year
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Prerequisite: *Power Technology I. Teacher recommendation is preferred. Courses must be taken in sequential order.*

Designed for students who desire to further their abilities in the technological areas of energy, power, and transportation systems. Course is presented through classroom lectures, multimedia presentations, demonstrations, individual instruction, and video and advanced hands-on problem solving activities. In-depth areas of study include advanced lab safety; career development and observation; marine, land, air, and space transportation systems; mechanical control and power conversion; renewable, nonrenewable, and alternative energy sources; and electronic topics.

Students are expected to pay for all projects made in class.

WOOD TECHNOLOGY:

Wood Technology I	Grades 9,10,11,12	Weight 1.0	1 Credit/Year
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This is an intermediate woodworking course. Requires students to select a project(s), do project drawings, complete a bill of materials, and write a plan of procedures. Divided into four major areas—cabinetry, lathe, carving/sculpture, and laminating. Students must satisfactorily complete a project in each of the four areas listed above or incorporate the four areas into one or more projects.

In addition, emphasis is on planning, design, safety, wood technology, advanced use of hand tools and operation of various woodworking machinery, construction techniques, and finishing. Careful attention is given to the safe and proper use of all tools and equipment, as well as their upkeep and maintenance. Project making is considered secondary to the development of a working knowledge of materials, tools, equipment, and processes. Classroom lectures, demonstration, individual instruction, films, current events, and actual hands-on experiences will be used in the instrumental process.

The objective is to provide the opportunity for students to broaden their knowledge of wood technology as it relates to our changing technical society.

Students are expected to pay for all projects made in class.

Wood Technology II, III & IV	Grades 10,11,12	Weight 1.0	1 Credit/Year
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Prerequisite: Wood Technology I. Teacher recommendation is preferred. Courses must be taken in sequential order.

Course is similar to Wood II with the exception that it is of a more advanced nature. Level III students are required to make duplicate (two identical) lathe turnings and a cabinetry project. All projects must be teacher approved. Instructor must also approve Level IV projects. Students will be required to complete a report on industry, as well as complete an independent study program that will require projects, demonstrations, advanced setups, jigs, fixtures, lab maintenance, and the construction of visual aid projects.

Students are expected to pay for all projects made in class.

Wood Works Enterprise	Grades 10,11,12	Weight 1.0	1 Credit/Year
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This course allows students to develop their own enterprise from scratch. The students' business plans will involve determining the product, mass-producing high quality furniture, fulfilling the orders, and accounting for the profit. The course uses hands-on experience to help students assess their personal skills, interests and values, understand the economic benefits of education, explore career options, and learn job-seeking skills.

Foundations of Construction	Grades 10,11,12	Weight 1.0	1 Credit/Year
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This construction class is offered for students who want to learn the basics of construction. The course will be a beginning level construction class. Students will learn basic hand tool and power tool operation. Students will learn how to build from the ground up with site excavation, blue print reading, masonry, carpentry, electrical, plumbing, roofing, siding, etc. The entire class will build at least one large project. A shed or outbuilding will be built from start to finish. There will be guest speakers from the construction field, and students will study careers in the field. This will be a hands-on class, and students will be expected to participate in learning how to build.

Foundations of Construction II	Grades 11,12	Weight 1.0	1 Credit/Year
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This class will allow students to expand their construction skills and complete advanced projects. Students will work in groups as well as independently. Advanced construction techniques and knowledge from Foundations of Construction will be essential when taking this course. There will be guest speakers from the construction field and students will study careers in the field. Students will collaborate with the teacher to find projects that challenge their skills. This is a hands-on class and students are expected to participate in learning the building trades.

WORLD LANGUAGES

French I	Grades 9,10,11,12	Weight 1.0	1 Credit/Year
<p>Designed to introduce students to the French language by laying the foundation for all four language skills—oral comprehension, speaking, reading, and writing. Constant practice in pronunciation and intonation is accompanied by written exercises to promote a gradual acquisition of basic skills in reading and writing simple French. The study of grammar is emphasized to provide a solid foundation for the student throughout his/her French studies. Cross-cultural comparisons are made between the American and French cultures. A geographical glimpse is given of France and students will study the city of Paris. French classes should be taken consecutively.</p>			
French II	Grades 9,10,11,12	Weight 1.1	1 Credit/Year
<p>Prerequisite: French I. Teacher recommendation is preferred. Reviews and expands the basic structures of French I. Emphasis is on expressing a sense of time by focusing on specific verb tense. Increasingly complex grammatical structures are presented in reading selections. Students develop their own writing with these structures and with the introduction of new, useful vocabulary. Students are expected to answer questions orally at a personal, self-expressive level and to practice authentic dialogues to develop facility with the language. French cultural contributions are noted during the year, and students study the regions of France. French classes should be taken consecutively.</p>			
French III	Grades 10,11,12	Weight 1.1	1 Credit/Year
<p>Prerequisite: French II. Teacher recommendation is preferred. French III is designed to teach students to verbally communicate and write in French by focusing on readings about events and important figures from different time periods throughout history. Students will discuss topics that require an intensive use of advanced grammar patterns and vocabulary. Emphasis will be placed on correct pronunciation, inflection, intonation, as well as reading for content, theme, vocabulary development, cultural, and historical context. Students will pursue the study of literature and literary analysis through short stories, poems, novels, and passages from important works by French and Francophone (Canadian, African, Caribbean) writers.</p>			
French IV	Grades 11,12	Weight 1.2	1 Credit/Year
<p>Prerequisite: French III. Teacher recommendation is preferred. Concentration is on improving the students' command of spoken and written French and further development of reading skills. Students are expected to be active participants as they work toward refining the four language skills through the study of French history, literature, films, poetry, or drama. A study of "<i>Le Petit Prince</i>" by St. Exupéry will end the year.</p>			
AP French Language and Culture	Grades 11,12	Weight 1.3	1 Credit/Year
<p>Prerequisite: French III. Teacher recommendation is preferred. AP French Language and Culture will continue to build on the skills students learned from the first three levels of their study of French by developing and refining the major skills of listening, speaking, reading, writing, and cultural competency. Students will read authentic texts that include advanced grammatical structures and topics that are technical, scientific, philosophical, and literary. As the year progresses, students' written and oral French will reflect and use advanced grammatical structures with sophisticated, precise, and eloquent vocabulary. Students will become more adept at understanding the speech of native speakers, speaking at a normal rate of speed, in most situations. Students are expected to take the AP exam for college credit in May.</p>			
Latin I	Grades 9,10,11,12	Weight 1.0	1 Credit/Year
<p>Emphasis is on basic vocabulary and grammatical principles, as well as Latin roots from which English words are derived. Memorization of Latin vocabulary and Latin word endings is crucial for success in the class. Students learn to read and write simple Latin sentences. Students also learn about daily life in Roman times, Roman religion and festivals, and the Roman gods and goddesses. Latin classes should be taken consecutively.</p>			
Latin II	Grades 9,10,11,12	Weight 1.1	1 Credit/Year
<p>Prerequisite: Latin I. Teacher recommendation is preferred. Students continue to learn vocabulary and grammatical constructions with particular emphasis on verbs. Memorization of Latin vocabulary and Latin word endings is crucial for success in the class. Reading and writing in Latin are stressed. Roman culture, geography, and Republican history and government are also studied. Latin classes should be taken consecutively.</p>			

Latin III	Grades 10,11,12	Weight 1.1	1 Credit/Year
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Prerequisite: Latin II. Teacher recommendation is preferred. The grammar previously studied is reviewed, and the subjunctive mood is introduced and practiced. Students concentrate on reading Latin literature and learning about the authors and times of the works. Horace and Cicero are representative of such authors. Composition projects and advanced grammar structures are major components of this course. Latin classes should be taken consecutively.

Latin IV	Grades 11,12	Weight 1.2	1 Credit/Year
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Prerequisite: Latin III. Teacher recommendation is preferred. Composition projects and advanced grammar structures continue to be major components of the course. Previous grammar is reviewed as needed. The works of major Latin authors are read, including Cicero, Catullus, Virgil, Livy, Tacitus, Caesar, or Ovid. In addition, students will revisit mythology with stories about Perseus and Jason and the Argonauts.

Spanish I	Grades 9,10,11,12	Weight 1.0	1 Credit/Year
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A brief geographical study introduces the Spanish speaking countries of the world and their holidays. Cross-cultural comparisons are made between the American and Hispanic cultures. Students practice the four basic language skills daily (reading, writing, speaking, and oral comprehension). Memorization of Spanish vocabulary is crucial for success in the class. The study of grammar provides a foundation for subsequent years of Spanish study. Spanish classes should be taken consecutively.

Spanish II	Grades 9,10,11,12	Weight 1.1	1 Credit/Year
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Prerequisite: Spanish I. Teacher recommendation is preferred. Reviews and expands the basic structures of Spanish I. The four basic language skills are again emphasized. Memorization of Spanish vocabulary is crucial for success in the class. The study of grammar provides a foundation for subsequent years of Spanish study. Special attention is placed upon verbs and the past tense. Students are expected to answer questions orally at a personal, self-expressive level and to practice authentic dialogues to develop facility with the language. Everyday Spanish-culture is studied, including school life, typical vacations, and health. Spanish classes should be taken consecutively.

Spanish III	Grades 10,11,12	Weight 1.1	1 Credit/Year
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Prerequisite: Spanish II. Teacher recommendation is preferred. Provides review and further expansion of grammatical structures with the emphasis upon using the language in class. The subjunctive mood is studied in depth. The Hispanic world of art and music is featured. Spanish classes should be taken consecutively.

Spanish IV	Grades 11,12	Weight 1.2	1 Credit/Year
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Prerequisite: Teacher recommendation. This is a fast-paced, advanced course integrating and refining previously learned language skills to achieve a higher proficiency in communicative skills (reading, writing, listening and speaking). Through the study of contemporary life, history, and literature, students will compare the cultures of other countries and make connections with other disciplines. Advanced grammar usage is an additional key aspect of this course, with the students gaining exposure through authentic resources and communicative practice applying all tenses. All of the instruction will be in Spanish and students will be required to use only the target language in class.

AP Spanish Language and Culture	Grade 12	Weight 1.3	1 Credit/Year
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Prerequisite: Teacher recommendation. AP Spanish Language and Culture focuses on the application of advanced skills in all modes of communication using authentic resources including online/traditional print (literature, essays, and magazine/newspaper articles), audio, and visual resources. All of the instruction will be in Spanish and students will be required to use only the target language in class. It is imperative that students are willing to narrate, discuss, and express opinions integrating advanced vocabulary and linguistic structures as they build proficiency. **Students are expected to take the AP exam for college credit in May.**

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