SCHUYLKILL VALLEY HIGH SCHOOL

Program of Studies

2025-2026

Schuylkill Valley High School l 929 Lakeshore Drive Leesport, PA 19533 l www.schuylkillvalley.org

TABLE OF CONTENTS

The school district administration reserves the right to revise the contents of this handbook throughout the school year if such changes are deemed necessary. Prerequisites are intended to ensure that students are prepared for the prescribed coursework. Administration, in consultation with the student, parent/guardian, teacher, and the school counselor, reserves the right to waive the prerequisites for a course.

SCHEDULING PROCESS

The goal of the school and administration is to develop a schedule that closely meets the needs of all students. The following activities and deadlines were developed to facilitate the accomplishment of that goal.

- Course selection meetings are scheduled with grades 9-11.
- Students in grades 9-11 will choose courses during a one week window, using the Community Portal in Sapphire.
- Students must select at least 6.5 (up to a maximum of 8) credits. We recommend 7 credits for students not engaging in an internship.
- Students will receive their course selections and will review with their core teachers.
- An evening meeting is scheduled for the parents of grade 8 students to introduce them to the high school scheduling process. (early February)
- Course selection materials are distributed to grade 8 students, and they will schedule at the middle school with the support of their teachers.
- The counselors meet with students unable to be scheduled for all the courses they chose.
- Study halls will be limited to 1 per year. There will be no study halls held in large group areas, therefore, limits will be set on the maximum number of students per study hall sections.

Course Offerings

There are some courses scheduled to run on an even or odd year. For scheduling for the 2025-2026 school year, students would choose courses offered in an even year. Courses may not run in a school year due to low enrollment numbers, so please be sure to choose alternatives when scheduling to ensure your schedule reflects coursework that you selected based on your interests.

Schedule Changes

The deadline for schedule changes is Friday, September 5, 2025.
The deadline for schedule changes for second semester courses is January 30, 2026.

Schedule Change Requests after September 5, 2025

Students are expected to retain the program of studies they selected with the advice and consent of their parents, teachers, and counselors. There are, however, circumstances that arise which necessitate a change with course selection. When a valid reason is presented and a discussion has occurred

between high school administration, counselor, parent/guardian, and student, an adjustment can be made to the schedule.

To preserve the rigor and continuity of the student's education, multiple schedule change requests will not be granted.

If a schedule change is deemed valid, every attempt will be made by the counselor to replace an academic class with another academic course. The changes will be made as soon as possible.

ACADEMIC ENRICHMENT

Students with a cumulative 3.5 GPA or higher can apply for Academic Enrichment. Academic Enrichment is a student chosen independent learning course coordinated with the AE Advisor, Administration, and other appropriate Teaching Staff. Interested students must see the AE Advisor before the end of the school year to receive an application for the following year. Students will be notified of approval, and at that point complete the negotiation of the field of study that will be pursued. Students must maintain a 3.5 GPA and produce "A" work to receive the credit for the year.

Four options for credit are available:

In grades 9 and 10 students can obtain a .25 credit for the year based on an area of concentration in one of the core major subjects: English, Mathematics, Science, Social Studies.

In grades 11 and 12 students can obtain .5-1.0 credits for the year with a larger workload in an approved area of academic pursuit.

An honors option is available for grades 11 and 12 for courses that do not offer such an opportunity.

If a student going into grades 11 or 12, who is eligible for Academic Enrichment, wants to take an established class from the course of study that cannot fit into their schedule, the student may be able to take the class in parallel with the regularly scheduled class if the following criteria is met: *

1. The student begins the inquiry during the designated schedule changing time.

2. permission from the Academic Enrichment Coordinator, and Staff assigned to teach the seated class.
3. The student agrees to complete all covered materials and graded items in parallel with the seated class and maintains an “A” average.

*If the course criteria are met, the transcript will be labeled as an Independent Study followed by the course title and hold the same weight as the seated class.

ADVANCED PLACEMENT

The College Board’s Advanced Placement Program (AP) is an opportunity for students to pursue college- level studies while still in high school. Through this program, they may earn credit, advanced placement, or both for college. By challenging and stimulating students, the AP Program provides access to high quality education, accelerates learning, rewards achievement, and enhances both high school and college programs.

Schuylkill Valley High School is committed to the Advanced Placement Program. Schuylkill Valley teachers are well prepared to teach Advanced Placement courses, having attended summer courses that prepared them for teaching specific subject areas.

AP exams are an integral part of an AP course. The exam grade provides an important payoff to students in terms of college credit and advanced placement. Exam results from AP students give AP teachers and administrators important feedback on the strengths and weaknesses of their courses and it is a component in Pennsylvania’s Future Ready Index.

Students at Schuylkill Valley High School who enroll in AP courses must pay for and take the national AP exam. Students who score a 3, 4, or 5 will receive a full reimbursement for the test registration cost. Students who complete AP courses will receive a weighted course value for GPA calculation and the AP designation on their transcript. Students who complete AP courses will receive a weighted course value for GPA calculation and the AP designation on their transcript.

KEYSTONE EXAMS

The Keystones are end-of-course examinations designed to assess proficiency in Algebra I, Biology, and Literature and to help school districts guide students towards meeting state standards. Students will take each Keystone Exam after they complete the corresponding course. Students will retake each exam until a proficient score is achieved.

NCAA STANDARDS

If students' plans include attending college and participating in Division I or Division II athletics, they must be sure their schedules include the academic core courses required for eligibility. NCAA eligibility standards are available at www.ncaaeligibilitycenter.org.

SIX-DAY CYCLE

Schuylkill Valley High School operates on a six-day scheduling cycle. Courses may meet on all six days of a cycle or only on specific days. Day numbers will be reflected on students' schedules for each course that meets more or less than six days.

The six-day cycle allows for more continuity in class sessions and provides more efficient scheduling of our science labs, band, and chorus.

COLLEGE AT SVHS

Reading Area Community College (RACC) allows students to participate in its dual enrollment program. This program gives qualified high school students the chance to earn college credit while completing approved courses on the Schuylkill Valley High School campus.

The following is a listing of dual enrollment opportunities for Schuylkill Valley students and the respective amount of college credit. Note: Courses must meet a minimum number of students to run.

Section numbers beginning with 15xx = courses taken and billed in the Fall Semester.

Course	RACC Course Equivalents & Credits	SV Course	Credits
BIO 150 1503	BIO 150 – Biology I	AP Biology	4
BIO 155 3507	BIO 155 – Biology II	AP Biology	4
CHE 150 1503	CHE 150 – Chemistry I	AP Chemistry	4
CHE 155 3507	CHE 155 – Chemistry II	AP Chemistry	4
CHE 150 1503	CHE 150 – Chemistry I	Chemistry II	4
COM 121 1503	COM 121 – English Composition I	AP English Language	3
ENG 125 3506	COM 131 – Composition and Literature	AP English Literature	3
ENG 125 1511	COM 121 – Composition I	English 12 Honors	3
EVN 130 1501	ENV 130 – The Environment	Environmental Science	3
MAT 210 1502	MAT 210 – Statistics	AP Statistics	3
MAT 220 1503	MAT 220 – Calculus I	Calculus	4
MAT 220 1509	MAT 220 – Calculus I	AP Calculus AB	4
MAT 221 1501	MAT 221 – Calculus II	AP Calculus BC	4
PHY 240 1503	PHY 240 – Physics I	Honors Physics	4
PHY 245 1504	PHY 245 – Physics II	AP Physics	4
SPA 101 1503	SPA 101 – Spanish I	Spanish 3	3
SPA 102 3503	SPA 102 – Spanish II	Spanish 4	3

RACC credits are accepted at most colleges and universities for transfer credit, thereby providing low-cost college credit which can be applied to required courses. To be certain that RACC credits will be accepted at another college or university, it is recommended that students contact their college admissions office for clarification.

RACC credits are offered at a reduced tuition rate for dual enrollment courses. A three- credit course is $297.00, and a four-credit course is $396.00*

Participation in the dual enrollment program is not required. It is a choice made by students and their parents/guardians. The cost of these credits is the responsibility of students and/or the parents/guardians. Registration for dual enrollment courses will correspond to RACCs terms (fall and spring).

*Tuition cost subject to change.

KU EARLY COLLEGE ACADEMY FOR EDUCATION

Program Overview

- Dual enrollment program for high school students interested in education careers
- Partnership between local school districts and Kutztown University
- Available to seniors (juniors also welcome)
- Earn up to 12 college credits before high school graduation

Eligibility and Requirements

- 2.5 GPA or higher
- Recommendation from high school

Schedule

- Monday, Wednesday, Friday mornings (8–10 am) on KU campus
- Two courses per semester (Fall and Spring)
- Internship at a local school in your district on Tuesdays and Thursdays

Cost and Transportation

- Reduced tuition, most fees waived
- Some districts may cover costs or provide transportation
- Check with your school district for details

Key Benefits

1. Accelerated access to education careers
2. Significantly reduced college costs
3. Eased transition to college life
4. Cohort design creates a supportive community
5. Experienced faculty supporting first-year students

Transferability

- Credits fulfill general education requirements at KU
- Likely transferable to other institutions (check with specific colleges)

FOR MORE INFORMATION: www.kutztown.edu/admissions/apply/first-year-students/early-college-academy.html

KUTZTOWN UNIVERSITY

GENERAL INFORMATION

Weighted Course List*

Department	Course	Level
Business Education/ Computer Science	AP Computer Science A-JAVA	2
	AP Computer Science Principles	2
	Video Game Programming Using Python	1
	All Cisco Networking Academy courses	1
	Accounting II	.5
English	AP Language	2
	AP Literature	2
	Honors English 12	1
	English Honors 9, 10, 11	.5
Fine Arts	AP Art History	2
	Music Theory II	.5
	Band with full participation in marching band	.5
Mathematics	AP Calculus AB	2
	AP Calculus BC	2
	AP Statistics	2
	Calculus	1
	Accelerated Pre-Calculus	1
	Pre-Calculus/Trigonometry	1
	Accelerated Algebra II	.5
	Honors Geometry or Algebra II Honors	.5
	Accelerated Geometry	.5
Science	AP Biology	2
	AP Chemistry	2
	AP Physics 1 and 2	2
	Environmental Science	1
	Honors Chemistry	1
	Human Anatomy and Physiology	1
	Human Anatomy and Physiology 2	1
	Honors Biology	.5
	Honors Earth Science	.5
Social Studies	AP Government	2
	AP Psychology	2
	AP US History	2
	AP World History	2
	Honors 9, 10, 11 History courses	.5
Technology Education	CAD 3	1
	CAD 4	1
World Language	German III	1
	German IV	1
	Spanish III	1
	Spanish IV	1
	Honors Spanish I and II	.5

*Some Academic Enrichment courses may be weighted. See the instructor for more information regarding course weights for the Academic Enrichment program

**Courses taken off campus at a college or university will be weighted (1). Medical Health Professions through BCTC will also be weighted (1).

GRADING POLICIES & INFORMATION

ACADEMIC ACHIEVEMENT/HONOR ROLL

For students to qualify for recognition in any of the three academic achievement levels, the following grade point averages must be attained:

Principal's List	**3.750-4.000**
Honor Roll	**3.500-3.749**
Merit Roll	**3.000-3.499**

Students failing one or more subjects are not eligible for honor roll recognition. An 'incomplete' grade (I) at the end of a quarter will prevent students from attaining an honor roll designation. Grades and Grade Point Average (GPA)

The cumulative GPA includes all graded courses (grades 9-12). The grading system for all students in the high school is as follows:

Grade	Grade Range	Unweighted	GPA		
			Weighted Level .5	Weighted Level 1	Weighted Level 2
A+	97-100	4.330	4.4383	4.5465	4.763
A	93-96	4.000	4.100	4.2000	4.400
A-	90-92	3.670	3.76175	3.8535	4.037
B+	87-89	3.330	3.41325	3.4965	3.663
B	83-86	3.000	3.075	3.1500	3.300
B-	80-82	2.670	2.73675	2.8035	2.937
C+	77-79	2.330	2.38825	2.4465	2.563
C	73-76	2.000	2.05	2.1000	2.200
C-	70-72	1.670	1.71175	1.7535	1.837
D+	67-69	1.330	1.36325	1.3965	1.463
D	63-66	1.000	1.025	1.0500	1.100
D-	60-62	0.670	0.68675	0.7035	0.737
F	0-59	0	0	0	0

Incomplete** Work must be made up or a failing grade may result.

The final grade for a course is determined as follows:

1st marking period	25%
2nd marking period	25%
3rd marking period	25%
4th marking period	25%

RANK

All students within a grade level are ranked according to their cumulative GPA. When calculating GPA, the Advanced Placement (AP) and college courses with grades of 60% or higher will be weighted (See Weighted Course List).

REPORT CARDS

Students' grades are available to be viewed by their parents/guardians on the Sapphire Student Information System throughout the school year. For this reason, the high school no longer mails report cards home. Quarterly report cards will be posted on the Community Portal at the end of each marking period. Parents will be notified via electronic message at end of each marking period to alert parents/guardians when report cards are expected to be posted. User IDs, passwords, and PIN information for access into the Student Information System will be provided to parents/guardians before the start of each school year. Parents may contact the high school office if assistance is needed.

GRADUATION REQUIREMENTS

To receive a Schuylkill Valley High School diploma, students must earn a minimum of 25.0 credits.

Course	Credits Required for Graduation
Electives	8.00
English	4.00
Fitness (including Wellness)	2.00
Math	3.00
Math or Science (Additional)	1.00
Science	3.00
Social Studies *	4.00
Credit Total	**25.00**

PROMOTION REQUIREMENTS

Promotion from one grade to the next is based upon credits earned. Parents will be informed if a student has fewer than the required credits for promotion. To be promoted, students must meet the minimum credit requirements.

The promotion of a high school student is determined by cumulative credits earned.

Grade 9 to 10: Students must have passed at least four major courses and earned at least 5.5 credits.

Grade 10 to 11: Students must have earned at least 11.0 credits.

Grade 11 to 12: Students must have earned at least 17.0 credits. However, final decisions on promotion to grade 12 may be based on whether the student can be scheduled for the courses needed for a June graduation.
Students in grades 9-11 must always maintain a course schedule with sufficient credits to be eligible for promotion to the next grade. Students in grade 12 must maintain a course schedule with sufficient credits to qualify for June graduation.

The Pennsylvania Pathways to Graduation were implemented by the Pennsylvania Department of Education to ensure that all graduates of our state high schools were equipped with the ability to be successful upon graduation from high school. Students are required to meet one of the following pathways to graduate from high school. We are proud to provide the resources necessary to assist students in meeting a pathway by the end of their senior year. More information can be obtained at https://pdesas.org/Page/Viewer/ViewPage/73

Keystone Proficiency Pathway: Students meeting this pathway score proficient or advanced on all three Keystone exams. The corresponding courses are Algebra I (Course #322) if the course was not completed in grade 8, English 10A or English 10H (Course #111, 110), and Academic Biology or Honors Biology (Course #411, 410). Students are expected to take the Keystone exams until they score proficient or advanced, showing their grasp of the concepts in the three courses.

Keystone Composite Pathway: This pathway is based on numeric scores that students earn on their Keystone exams. At least one score must be 1500 or greater, meaning the student earned proficient or advanced on at least one Keystone exam. The remaining scores must be at the basic level, and when added together, all three scores equal 4452 or greater. This pathway would be supported by the courses listed in the Keystone Proficiency Pathway.

CTE Concentrator Pathway: This pathway is for students who attend and complete a program at Berks Career and Technology Center or complete our Agriculture Science Program. The student must earn a certification in their program or be successful on their NOCTI exam. In addition, students meeting this pathway must also pass biology, tenth grade literature, and Algebra I. Please refer to pages 13 and 88 for more information about these CTE programs.

Alternative Assessment Pathway: This pathway is met by scoring appropriately on one of many assessments. A student can earn 970 on the PSAT/NMSQT, which they take in grade 11. A score of 1010 on the SAT or 21 on the ACT will also fulfill this pathway. Those tests would be scheduled by the student. The ASVAB is given once a year at Schuylkill Valley High School, and a score of 31 would meet this pathway requirement. In addition, students may score a 3 or better on the AP Biology, AP Literature or Language exam, or on any of the AP mathematics exams we offer. A student dually enrolled in English, Math, or Science who successfully completes the course may also meet this pathway. Finally, a student may meet this pathway by earning unconditional acceptance into a four-year institution of Higher Education. For a list of AP and Dual Enrollment courses, please refer to pages 6 and 8.

Evidence-Based Pathway: Students meeting this pathway must earn three artifacts consistent with their goals. One artifact may be an industry-level certification. Students enrolled in the Cisco Networking Academy, our Agricultural Science Program, First Aid CPR/AED, Microsoft Office Specialist, or CAD 4 will earn an industry-based certification. Students may earn an artifact by scoring a 3 or better on any AP exam. For a list of AP exams offered, please refer to page 8. Students who are dually enrolled in a course and successfully complete that course will receive credit for one artifact toward this pathway. Those courses are listed on page 6. Students may also enroll in any postsecondary course to earn an artifact. Students should provide a copy of their transcript to their school counselor for recognition. One artifact could also be acceptance into a post-secondary institution that is not a four-year program.
If a student earns at least one artifact from the list above, the student may earn additional artifacts by participating in and satisfactorily completing our internship program (page 21), satisfactorily completing our DOE program (page 20), scoring proficient or advanced on a Keystone exam, completing a service-learning project, earning guaranteed employment, or enlisting in the military, or by meeting the NCAA Division II Requirements.

AGRICULTURAL SCIENCE

We are excited to offer Agricultural Science at Schuylkill Valley and to be providing extensive offerings to our students. In addition, we have an articulation agreement with Delaware Valley University. All students enrolled in an Agricultural Science course must also be enrolled in a Supervised Agricultural Experience (SAE). This is an independent study that will occur in addition to the course(s) that are part of a student's schedule. Students enrolled in an agriculture course and an SAE may be part of FFA as well.

INTRODUCTION TO AGRISCIENCE

COURSE #442| 1 CREDIT| GRADES 9-11

Introduction to Agriscience introduces students to agricultural opportunities and the pathways of study in agriculture. The course is the mandatory prerequisite class for all ag elective classes. It is structured to enable all students to experience an overview of the fields of agricultural science and natural resources and are introduced to FFA and SAE. Throughout the course, there are activities to develop and improve student employability skills through practical applications. Students will also take the AgSafety4U Certification Course. Students explore career and post-secondary opportunities in each area of the course.

Scheduling Note: Students who enroll in this class will automatically be enrolled in SAE-Level I. Students should strongly consider enrolling in Agribusiness: Communications and Professionalism at the same time.

AGRIBUSINESS: COMMUNICATIONS AND PROFESSIONALISM

COURSE# 466| .50 CREDIT| GRADES 9-12

This course is designed to help students learn the skills necessary to perform well in the agricultural workplace. It focuses on leadership, oral communication, writing, and etiquette as they relate to agribusiness. Public speaking will be a key component of this class. This is the foundation course that is the prerequisite for the Agricultural Business Foundations class.

This class is eligible for articulation credit from Delaware Valley University.

Prerequisites: Students must be either concurrently enrolled in Introduction to Agriscience or have completed the class.

AGRICULTURAL BUSINESS FOUNDATIONS (ABF)

COURSE #464|.50 CREDIT| GRADES 10-12

Agricultural Business Foundations introduces students to business management in agriculture. Mathematics, reading, and writing components are woven in the context of agriculture and students will use the introductory skills and knowledge developed in this course throughout subsequent CASE courses. The Agricultural Business Foundations course includes starting a business, financial documents, risk management, and writing a business plan. Throughout the course are practical and engaging activities, projects, and problems to develop and improve business and employability skills. Additionally, students investigate and develop viable business plans in order to solve local problems. The business plan ideas area communicated to student peers and professional community members.

The class is eligible for articulation credit from Delaware Valley University, and it is a CASE course.

Prerequisites: Must have a 75% or higher in both Agribusiness: Communication and Professionalism and Introduction to Agriscience.

PRINCIPLES OF AGRUCULTURAL SCIENCE - ANIMAL (ASA)

COURSE#467| 1 CREDIT| GRADES 10-12

The primary goal of the *Principles of Agricultural Science – Animal* (ASA) curriculum is to expose students to agriculture, animal science, and related career options. Throughout the course, students investigate the consumer perceptions and preferences related to animals in local, regional, and global markets. Students gain knowledge and skills related to animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing through hands-on activities, projects, and problems. By mimicking work similar to that of animal science specialists, such as industry personnel, livestock producers, veterinarians, and zoologists, students learn to document work, solve problems, and communicate solutions to peers and members of the professional community.
In addition, students encounter connections between animal science lessons and Supervised Agricultural Experience and FFA opportunities for experimental learning and leadership development.

The ASA course includes:

- Background and social issues of animal science
- Handling and caring for animals safety
- Anatomy and physiology
- Nutrition
- Reproduction
- Genetics
- Animal health
- Animal selection, products, and marketing

This class is eligible for articulation credit from Delaware Valley University and is a CASE Course. Therefore, students will take a NOCTI certification test at the end of the course.

This course is the prerequisite to the Small Animal and Vet Care Management class.

PRINCIPLES OF AGRICULTURAL SCIENCE - PLANT AND SOIL SCIENCE (ASP)

COURSE#468| 1 CREDIT| GRADES 10-12

Principles of Agricultural Science – Plant (ASP) course provides a foundation of plant science knowledge and skills. Students will experience various plant science concepts through exciting “hands-on” activities, projects, and problems. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agronomic, forestry, and horticultural industries. Students will discover the value of plant production and its impact on the individual, the loca, and the global economy. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists face in their respective careers.
Students will understand specific connections between the course’s lesson and Supervised Agricultural Experience and FFA components of agricultural education programs. Students will improve investigative, experimental, and communication skills.

The ASP course includes the following units of study:

- Worlds of Opportunity
- Mineral Soils
- Soilless Systems
- Anatomy and Physiology
- Taxonomy
- The Growing Environment

- Plant Reproduction
- Surviving a Harsh Environment
- Crop Production and Marketing

This class is eligible for articulation credit from Delaware Valley University and is a CASE course. Therefore, students will take a NOCTI certification test at the end of the course.

This course is the prerequisite class for Horticultural Science.

NATURAL RESOURCES AND ECOLOGY

COURSE#469| 1 CREDIT| GRADES 10-12

This course will give the students a variety of experiences in natural resources and ecology. Students will study topics such as land use, water quality, stewardship, and environmental agencies. Study of the natural world including biomes, land, air, water, energy use and care, and a focus on man's interaction with earth will be addressed in this course. Students will select an ecosystem to study throughout the course and apply principles of natural resources and ecology from each unit of study to that ecosystem. The course is certified by CASE. This is the prerequisite course to Environmental Science if you are in the agricultural program.

This course is eligible for articulation credit from Delaware Valley University.

Prerequisite: Must have a 75% or higher in Introduction to Agriscience

FOOD SCIENCE

COURSE #532| 1 CREDIT| GRADES 10-12

This specialized course will introduce you to the principal areas of food science, including food safety, food chemistry, food processing, and food development and marketing. Along with traditional coursework, you will complete hands-on activities, projects, and problem-solving activities. Our goal (and hope) is for you to understand the importance of the food industry and food preparation in your daily life, and just how much science is involved in the food we eat.

Prerequisites- Must have 75% or better in either Introduction to Agriscience or Joy of Cooking, and 75% or better in Biology.
Scheduling Note: Students taking this class as part of the agriculture elective sequence will also automatically be enrolled in the appropriate SAE level.

SMALL ANIMAL MANAGEMENT

COURSE#470| 1 CREDIT| GRADES 10-12

In this course students will learn about small companion animals and the small animal management industry. They will learn the breeds of companion animals, small animal nutrition, and basic veterinary practices. The goal is to provide some basics for future careers working with small companion animals.

Prerequisite: Must have 75% or higher in both Introduction to Agriscience and Animal Science.

HORTICULTURAL SCIENCE

COURSE# 440| 1 CREDIT| GRADES 11-12

This course is designed to teach students how to produce plants in a greenhouse setting. They will develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. Students will learn about the mechanical systems of the greenhouse, learn propagation techniques, study plant production and the pests that affect plants. At the course's end, students will take the industry standard BASF Plant Science Certification exam.

Prerequisite: Must have a 75% or higher in both Introduction to Agriscience and Plant and Soil Science.

SUPERVISED AGRICULTURAL EXPERIENCE-LEVELS 1, 2, 3, 4

COURSE# 465, #471, #472, #473|.50 CREDIT| GRADES 9-12

Supervised Agricultural Experience (SAE) is a student-led, instructor-supervised, work-based learning experience that results in students acquiring knowledge and skills that grow over time. They are designed to help you refine your interest, develop a career plan, and get you ready for your path after graduation. This is not a separate course but a graded piece of the agriculture classes you take. There will be specific activities that you will need to complete, and they will be different for each level. You must enroll in this course if you are taking any agriculture class; it will appear on your course schedule as “period 9.” Each level corresponds to each year that you are enrolled in the agriculture program

BUSINESS & COMPUTER

The Schuylkill Valley Business, Computer, and Information Technology Department is dedicated to preparing students for a rapidly changing world by expanding students' knowledge and skills in business and technology. These skills are fostered through a curriculum centered on innovative technology, problem-solving business concepts, and legal principles. Our mission is to provide high school students with business/computer courses that prepare them for college or entrance into the workforce.

ACCOUNTING I

COURSE #601|1 CREDIT |GRADES 10-12

Accounting I is a full-year course which covers the accounting cycles for a sole proprietorship. Topics include analyzing and posting transactions, cash control systems, worksheets, and financial statements for a service business, adjusting and closing entries, and the general and subsidiary ledgers. Students will also gain experience with accounting for purchases and cash payments, accounting for sales and cash receipts, and accounting for transactions using a general journal. The course will culminate with a simulation, giving students real-world experience in accounting. Materials and simulation are assessable through online working papers. This course is recommended for students who are interested in business or finance.

ACCOUNTING II H

COURSE #602 | 1 CREDIT | GRADES 11-12

Accounting II is a full-year course designed to give students further study in the more advanced principles of accounting. The course will cover payroll accounting, a worksheet, financial statements, and adjusting and closing entries for a merchandising business operating as a partnership, special journals, uncollectible accounts, and depreciation. The course will culminate with a simulation, giving students real-world experience in accounting. Materials and simulation are assessable through online working papers. This course is recommended for students who plan to study business or finance after high school.

Prerequisite – Successful completion of Accounting I.

INTRODUCTION TO MARKETING

COURSE #612 | 1 CREDIT | GRADES 10-12

Introduction to Marketing is a full-year course designed as an overview of the various aspects of the business world. Students will gain a clear understanding of what a business is and how it operates. Area of study will include advertising, marketing concepts, distribution, marketing research, and management and marketing careers. This course is intended for those students who are considering taking business courses in college.

INTRODUCTION TO BUSINESS

COURSE #615 | 1 CREDIT | GRADES 9-12

Introduction to Business is a full-year course for students grades 9-12 who are interested in either entering the business world or planning additional studies in business. This course's main objective is to prepare students for a meaningful understanding of business and the economy. Students will be introduced to the following topics: the economy, free enterprise, money, credit, banks, money management, and governments' role in business. Special emphasis will be placed on the practical application of learning so that students understand the importance of career planning and citizens' roles in the economy.

SPORTS AND ENTERTAINMENT MARKETING

COURSE #603 | .50 CREDIT | GRADES 10-12

The field of sports and entertainment marketing is rapidly growing. This course is designed to apply business and marketing principles to sports, sporting events, and sports products. Students will develop skills in marketing analysis, event marketing, communication, and human relations, along with a thorough understanding of the sports, entertainment, and recreation industry and career options available. This will be done by presenting real world business and marketing strategies used in this industry, examining the legal and ethical issues that commonly occur and how exploring the use of technology has effectively been applied in the sports business/marketing arena

DIVERSIFIED OCCUPATIONS EDUCATION SCHOOL- TO- WORK CO-OP PROGRAM

COURSE #619 COURSE #620 | 3 CREDITS | GRADE 12

DOE is a unique educational program designed to integrate classroom study in employability and life skills with planned, supervised practical work experience. The DOE program is a partnership between local businesses and Schuylkill Valley High School. Students must take one theory period at school and will be released during periods 7 and 8 for work experience. DOE students must:

- Be supervised on-the-job.
- Be visited on-the-job by the instructor.
- Attend a daily theory class and then be released to go to work periods 7 and 8.
- Be employed at least 3 days (shifts) and 15 hours, Monday-Friday.
- Complete all enrollment paperwork

INTERNSHIP

COURSE #621 | COURSE #622 | COURSE #623 | .50-2 CREDIT | GRADES 11-12

This course is designed for students to work in an unpaid position in a chosen field of study and receive high school credit for the experience. Students work with a professional in the field and will be evaluated by the professional under the supervision of a member of the Schuylkill Valley teaching staff. Registration for this course is limited.

Interested students are encouraged to register early with their guidance counselor. Some examples of previous internship experiences include:

- Working in the elementary and middle school remediation programs for students interested in the teaching profession.
- Working in the athletic training room for students showing an interest in the health services field.
- Working in the school greenhouse for students interested in a horticulture-type profession.
- Working in the community at a local business that is in line with your future plans.

MULTIMEDIA APPLICATIONS

COURSE #626 | .50 CREDIT | GRADE 9-12

This class will integrate graphics, animation, sound, and video in a project-based learning environment using the Adobe Suite software. Software will include Photoshop, Audition, Audition, and Premier. Other emerging software used to enhance projects will be covered. Students will be engaging with multimedia software to construct and convey knowledge in a software-rich environment.

MICROSOFT OFFICE SPECIALIST

COURSE #609 | .50 CREDIT | GRADE 9-12

The Microsoft Office Specialist course is a self-guided course designed to give students advanced skills in Microsoft Office (Word, Excel, and PowerPoint). Proficiency in Microsoft Office allows a student to excel in the workplace and college to be an efficient, productive, and analytical software user. Students will choose one Office software program to complete through projects and assignments. At the Office program's end, the student can take the MOS exam to receive the official certification from Microsoft. Being certified as a Microsoft Office Specialist demonstrates you have the skills needed to get the most out of Office. Certifications are recognized by industry and colleges. This class is repeatable with a new software choice.

PERSONAL KEYBOARDING APPLICATIONS

COURSE #604| .50 CREDIT | GRADES 9-12

This course covers various communication and keyboarding skills needed in the word processing and information age. Students will learn how to prepare individual items such as applications, resumes, cover letters, newsletters, brochures, and reports. Students will also learn how to prepare charts, news releases, telegrams, menus, requisitions, orders, and invoices. This course covers the areas necessary to prepare students for future written communications for college or employment. Students interested in increasing their keyboarding skills and learning proper formatting techniques to complete assignments more quickly and efficiently should take this course.

INTRODUCTION TO COMPUTER SCIENCE USING PYTHON (A GAMING LANGUAGE)

COURSE #608| 1 CREDIT | GRADES 9-12

The first course in computer science is about a new way of solving problems computationally. Python's simplicity, powerful built in data structures and advanced control constructs allow students to focus more on problem solving and less on language issues. Python is used by many well-known companies such as You Tube, Drop Box and Industrial Light and Magic. As Python is also the predominant language in current day gaming, students who are interested in that avenue can use this course as a gateway to that venue. This course will give students a practical foundation in programming, enabling them to produce useful, meaningful results in their respective fields of study.

This course can be counted as a required math or science credit if the student elects to do so. A student may select this option for a maximum of 1 computer science course.

Prerequisite – Successful completion of Algebra I.

VIDEO GAME PROGRAMMING USING COMPUTER SCIENCE (WT.)

COURSE #617 | 1 CREDIT | GRADES 10-12

The video game design curriculum teaches the foundations of creating video games in JavaScript. This course is introductory; however, it is an honors-level course. Units include:

1. Intro to Programming in JavaScript
2. JavaScript and Graphics
3. Animation and Games
4. Basic Data Structures
5. Programming projects based on the above units.

This course can be counted as a required math or science credit if the student elects to do so. A student may select this option for a maximum of 1 computer science course.

Prerequisite – Successful completion of Introduction to Computer Science using Python.

AP COMPUTER SCIENCE A - JAVA

COURSE #618 | 1 CREDIT | GRADES 11-12

This is a complete course in programming and problem-solving. The course will prepare students for level A of the AP Test covering all the required subset of Java for that level. The course introduces Java features as they are needed to support programming concepts. In this manner, all the AP-required syntax is covered without the course being syntax driven. The seven key issues covered by the text through stand-alone lessons and others spread across several lessons are: programming basics, object-oriented programming (OOP), data and information processing, software development cycle, graphical user interfaces, and Web basics. Students can use the text, fellow students, and the teacher as resources in solving their programming projects.

This course can be counted as a required math or science credit if the student elects to do so. A student may select this option for a maximum of 1 computer science course.

Prerequisite – Successful completion of Video Game Programming or Introduction to Computer Science using Python and recommendation of teacher.

AP COMPUTER SCIENCE PRINCIPLES

COURSE #616| 1 CREDIT | GRADES 10-12

AP Computer Science Principles introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world.

The course is unique in its focus of fostering students to be creative. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively using simulations to explore questions that interest them. Students design and implement innovative solutions using an iterative process like what artists, writers, computer scientists and engineers use to bring ideas to life.

To appeal to a broader audience, this course highlights the relevance of computer science by emphasizing the vital impact advances in computing have on people and society. By focusing the course beyond the study of machines and systems, students also can investigate the innovations in other fields that computing has made possible and examine the ethical implications of new computing technology.

The course is organized around the investigation of seven big ideas all of which are fundamental principles essential to thrive in future college courses and a variety of computer and STEM careers. These integral understandings provide a pathway for becoming a well-educated and informed citizen who understands how computer science impacts people and society.

This course can be counted as a required math or science credit if the student elects to do so. A student may select this option for a maximum of 1 computer science course.

Prerequisite – Successful completion of Algebra

IT ESSENTIALS-CISCO NETWORKING ACADEMY

COURSE#628| .5 CREDIT| GRADES 9-12

IT Essentials covers fundamental computer and career skills for entry-level IT jobs. Students apply skills and procedures to install, configure, and troubleshoot computers, mobile devices, and software. This course is the introductory course to the Cisco Networking Academy.

NETWORKING ESSENTIALS-CISCO NETWORKING ACADEMY

COURSE #627| .5 CREDIT| GRADES 9-12

Networking Essentials provides learners with a broad foundational understanding of networking. It is suitable for anyone interested in a career in IT, or a related career. This course provides an engaging, self-paced learning experience using Packet Tracer simulation, interactive activities, and learning everyday devices found at home.

Prerequisite: Student must complete IT Essentials

CYBERSECURITY ESSENTIALS-CISCO NETWORKING ACADEMY

COURSE#629| .5 CREDIT| GRADES 11-12

A course designed for learners interested in pursuing a career in cybersecurity. It prepares for a Junior Cybersecurity Analyst role by equipping learners with job skills across three domains: Endpoint Security, Network Defense, and Cyber Threat Management.

Prerequisite: Student must complete Networking Essentials

INTRODUCTION TO NETWORKS-CISCO NETWORKING ACADEMY

COURSE#630| .5 CREDIT| GRADES 11-12

Introduction to networks, the first course is the first course in a series that will help prepare students for the Cisco Certified Network Associate (CCNA) certification exam. From understanding network architectures and protocols to mastering IP addressing and Ethernet fundamentals, you'll develop foundational knowledge and build your networking basics. This course also includes interactive labs and real-world scenarios to help you gain practical experience in building local area networks (LANs), implementing network security measures, and configuring routers and switches.
Build the skills you need for associate-level job roles like Network Administrator, System Administrator, or Network Engineer in this three course series. You will also get ready to take the Cisco Certified Network Associate (CCNA) certification exam, an industry-recognized credential that validates your expertise and opens doors to exciting professional opportunities.

Prerequisite: Student must complete Networking Essentials

SWITCHING, ROUTING, AND WIRELESS ESSENTIALS-CISCO NETWORKING ACADEMY

COURSE#631| .5 CREDIT| GRADES 11-12

Switching, Routing, and Wireless Essentials is the second course in this series. This course covers topics in switching and routing delves into wireless local area networks (WLANS) and security concepts. After completing this course, you'll understand network operations and be capable of performing network configuration, troubleshooting, and mitigation of LAN security threats.

Prerequisite: Student must complete Introduction to Networks.

ENTERPRISE NETWORKING, SECURITY, AND AUTOMATION - CISCO NETWORKING ACADEMY

COURSE#632| .5 CREDIT| GRADES 11-12

Enterprise Networking, Security, and Automation is the third and final course in this three-course series. This course will give you knowledge needed to thrive as a network administrator or engineer. This course covers the architectures and considerations involved in designing, securing, operating, and troubleshooting enterprise networks. You will also explore wide area network (WAN) technologies, quality of service (QoS) mechanisms, and software-defined networking (SDN) concepts.
Build the skills you need for associate-level job roles like Network Administrator, System Administrator, or Network Engineer in this three course series. You will also get ready to take the Cisco Certified Network Associate (CCNA) certification exam, an industry-recognized credential that validates your expertise and opens doors to exciting professional opportunities.

Prerequisite: Student must complete Introduction to Networks and Switching, Routing, and Wireless Essentials

ENGLISH

Grade	Required Course	Credits
Grade 9	English 9 Honors/ English 9 Academics	1
Grade 10	English 10 Academic/ English 10 Honors	1
Grade 11	English 11 Academic/ English 11 Honors/AP English language	1
Grade 12	English 12 Academic/ English 12 Honors/AP English literature	1

Grade	Electives	Credits
Grade 9	N/A	N/A
Grade 10	Public Speaking, Creative Writing, Sports Literature	.5
Grade 11	Public Speaking, Creative Writing, Sports Literature	.5
Grade 12	Public Speaking, Creative Writing, Sports Literature	.5

ENGLISH 9 ACADEMIC

COURSE #116| 1 CREDIT

Students will be required to do academic level work. Students will write various paragraphs, short writing assignments, and several longer compositions. Students will explore the basics of research – identifying credible sources, in-text citations, and creation of works cited entries in preparation for informational and argumentative research. Literature assessments will include: writing, multimedia and technology-enhanced projects, and oral presentations. Students will study a variety of texts including – short stories, full-length novels, nonfiction information, plays, and poetry. Students will explore the following units: Following the crowd, people and the environment, conveying courage, and a hero's journey. Students will also participate in independent choice reading.

Possible texts: Uglies, Romeo and Juliet, Greek Mythology – monomyth.

ENGLISH 9 HONORS

COURSE #115| 1 CREDIT

Students will be required to do honors-level work. Students will write various paragraphs, short writing assignments, and several longer compositions. Students will explore the basics of research – identifying credible sources, in-text citations, and creation of works cited entries in preparation for informational and argumentative research. Literature assessments will include writing, multimedia and technology-enhanced projects, and oral presentations. Students will study a variety of texts including – short stories, full-length novels, nonfiction information, plays, and poetry. Students will explore the following units: following the crowd, people and the environment, conveying courage, and a hero's journey. Students will also participate in independent choice reading.

Possible texts: Uglies, Odyssey, Unbroken, Romeo and Juliet, On the Beach

ENGLISH 10 ACADEMIC

COURSE #111 | 1 CREDIT

All students will take the Keystone Literature exam in the spring. Students will study vocabulary within the literature of the designed curriculum. Students will be expected to write in-depth compositions, including in-class, timed assignments. Students will utilize proper research methodology to prepare for argumentative research writing. Literature assessments will include writing, multimedia and technology-enhanced projects, and oral presentations. Students will study a variety of texts, including short stories, full-length novels, nonfiction information, plays, and poetry. Students will explore the following units: coming of age, science fiction/social commentary, the science of branding/rhetoric, and truth justice. Students will also participate in independent choice reading.

Possible texts: The Outsiders, Dracula, Flowers for Algernon, Scythe, The Crucible, Julius Caesar, iRobot.

ENGLISH 10 HONORS

COURSE #110 | 1 CREDIT

All students will take the Keystone Literature exam in the spring. Students will prepare for a future in academic study through an intensive critical approach to language and literature. Students will be expected to write in-depth compositions, including in-class, timed assignments. Students will utilize proper research methodology to prepare for argumentative research writing. Literature assessments will include: writing, multimedia and technology-enhanced projects, and oral presentations. Students will study a variety of texts, including short stories, full-length novels, nonfiction information, plays, and poetry. Students will explore the following units: coming of age, science fiction/social commentary, the science of branding/rhetoric, and truth justice. Students will also participate in independent choice reading.

Possible texts: To Kill a Mockingbird, Dracula, Flowers for Algernon, Scythe, The Crucible, Julius Caesar, iRobot.

Prerequisite – Students must have an 83% or higher in English 9 Honors or a 90% or higher in English 9 Academic to take this course. Teacher approval of course request to override the grade requirement is REDQUIRED

ENGLISH 11 ACADEMIC

COURSE #106 | 1 CREDIT

Students will study an overview of American literature from the late 19th Century through the mid-20th Century, featuring novels, short stories, drama, and poetry, along with Hamlet by William Shakespeare. Throughout the course, students will engage in both formal and informal text-based writing assignments, leading them to critically interpret and engage with texts while developing their analytical, communicative, and reflective writing skills. Students will learn and practice the research skills of annotation and paraphrasing to effectively incorporate them into an argumentative research paper on a topic of their choice. Grammar instruction will be incorporated as necessary to refine clarity and precision in writing. This instruction will include exercises in critical reading skills, etymology and vocabulary.
This course is appropriate for students who plan to pursue some form of post-high school education, such as a two- or four-year college, trade school, or business school.
Possible texts: Of Mice and Men, The Great Gatsby, Hamlet, The Namesake, The Things They Carried, Cyrano de Bergerac, October Sky

ENGLISH 11 HONORS

COURSE #105| 1 CREDIT

This course is designed to expose students to an overview of American literature from the late 19th Century through the mid-20th Century featuring novels, short stories, drama, and poetry, along with Hamlet by William Shakespeare. Writing assignments will accompany the literature study and will involve text-dependent analyses and personal reactions based on the literature. Grammar instruction will accompany the writing program as the need arises. Students will learn and practice the research skills of annotation and paraphrasing to effectively incorporate them into an argumentative paper on a topic of their choice. Additionally, creative writing assignments will involve less formal structure regarding the writing process, and will foster originality and a deeper appreciation for the craft of writing.
Note: Student work will be held to a much higher standard than the work expected of the academic student. Writing assignments will be graded stringently.
Prerequisite – Students must have an 83% or higher in English 10 Honors or a 90% or higher in English 10 Academic to take this course.
Possible texts: Of Mice and Men, The Great Gatsby, Hamlet, The Namesake, The Things They Carried, Cyrano de Bergerac, October Sky

ENGLISH 12 ACADEMIC

COURSE #102 | 1 CREDIT

This course introduces, reviews, and analyzes skills students need to pursue some form of post-high school education. Students will study an overview of British literature from the Anglo-Saxons to modern authors. Instruction will include a series of literature-based composition skills which focus on revision skill development. Students will review effective research practices taught in previous grades. This work will culminate in a research project.
Vocabulary will be literature-based or from assigned lists. Word study includes literary discussion, analysis, commentary, and contextual vocabulary. Students will also improve on formal speaking skills during a public speaking unit. Course demands include numerous reading and writing assignments, active participation, and a desire to improve analytical reading and writing skills.
Possible texts: Macbeth, Lord of the Flies, Fahrenheit 451, Much Ado About Nothing

ENGLISH 12 HONORS

COURSE #100 | 1 CREDIT

This course reviews skills needed to pursue post-high school education and speaking and communication skills necessary for the workforce. Students will study an overview of British literature from Anglo-Saxons

to modern authors. A unit on Shakespeare will include a study of selected sonnets and The Tragedy of Macbeth. Students will read a minimum of five major literary texts. Instruction will include a series of literature-based analysis and composition skills which focus on revision skill development. Students will review effective research practices taught in previous grades. This work will culminate in a research project.

Vocabulary study includes the terms of literary discussion, analysis, and commentary, as well as contextual vocabulary and SAT prep vocabulary. Students will also improve on formal speaking skills during a public speaking unit. Course demands include numerous reading and writing assignments, at least one presentation, active participation, and a desire to improve analytical reading and writing skills.

Prerequisite – Students must have an 83% or higher in English 11 Honors or a 90% or higher in English 11 Academic to take this course.

Possible texts: Macbeth, Lord of the Flies, Fahrenheit 451, Much Ado About Nothing, and Brave New World

AP ENGLISH LANGUAGE

COURSE #101 | 1 CREDIT | GRADES 11-12

AP English Language looks at the way writers use language, style, and rhetoric to create meaning. A large part of this class is the careful and critical analysis of texts that will help students become aware of how writers use language skillfully. AP Language and Composition is primarily a writing course; however, it is not a creative writing course. Students will not be asked to write poetry or only about their own experiences. This course is comparable to the first English class required by most colleges/universities (for all students), regardless of the major they choose. Therefore, students who elect to take this course should be prepared for more mature content.

As indicated by the AP English Language and Composition course description, students in this course read and carefully analyze a broad and challenging collection of writings, as well as visual texts, to deepen their awareness of how writers use language effectively. Through close reading and frequent writing, students will develop their ability to analyze text. Formal writing will be process-driven, meaning they will work through the process of pre-writing, writing and revision.

Readings will be non-fiction but will also include some works of fiction appropriate for study because of their complexity of language. Grammar, usage, and mechanical instruction will occur in the context of student writing and in the analysis of written passages. Vocabulary study will also be integrated into each unit. Summer reading and writing assignments will be applied toward the first quarter grade and should demonstrate the student's preparedness for the workload and rigor of the course.

Students will review methodologies, with direct instruction involving effectively annotating, paraphrasing, and synthesizing sources. This work will culminate in a research paper.

Course expectations—students will:

- Be expected to achieve a higher level of responsibility than is typical for high school honors students.
- Rise to the class standards. The literature, discussion, reading, and writing assignments will be challenging.
- Recognize sophisticated literary vocabulary and hone their analytical skills by writing numerous essays.
- Consistently be held accountable for the completion and comprehension of reading assignments.
- Work on developing their writing styles by identifying with writing as an on-going process.
- Initiate discussions, readings, and presentations in class.

Prerequisite – Rising juniors must have a 90% or higher in English 10 Honors to take this course. Rising seniors must have a 90% or higher in English 11 Honors to take this course. Rising juniors and seniors in Academic English may be admitted to the course by teacher recommendation only. This course is offered in even numbered school years only.

AP ENGLISH LITERATURE

COURSE #104 |1 CREDIT | GRADE 12

AP English Literature exposes students to challenging literary works that represent cultural literacy within the traditions of Western thought. The writing element, designed to develop stylistic maturity, involves formal essays/compositions, explication, and commentary based upon various genres of literature, including poetry, drama, short stories, and novels. Upon completion of the course, students will have the opportunity to take the exam designed for AP English Literature and Composition.
Students will review effect research practices taught in previous grades, and they will learn fundamentals of literary criticism. This work will culminate in a literary research paper.
Course expectations—students will:

- Be expected to achieve a higher level of responsibility than is typical for high school honors students.
- Rise to the class standards. The literature, discussion, reading, and writing assignments will be challenging.
- Recognize sophisticated literary vocabulary and hone their analytical skills by writing numerous essays.
- Consistently be held accountable for the completion and comprehension of reading assignments.
- Work on developing their writing styles by identifying with writing as an on-going process.
- Initiate discussions, readings, and presentations in class.

Course content:
Reading comprehension through novels, plays, essays, poems, and short stories (some related to British literature).
Writing enhancement will be explored with an introduction to a revision method, formal essays, in-class essays, responsive, and creative assignments.
Oral presentation skills will be reviewed and expected in group and individual assignments.

Prerequisite – Students must have a 90% or higher in English 11 Honors to take this course. Rising seniors in Academic English may be admitted to the course by teacher recommendation only. This course is offered in odd numbered school years only.

COMMUNICATIONS (SCHOOL NEWSPAPER)

COURSE #126 | 0.50 CREDIT | GRADES 10-12

This course is designed to expose students to elements of communications and journalism to prepare them for careers in this field. The students will practice the following aspects: news, features, sports, editorials, interviewing, layout design, press releases, photojournalism, and marketing. This elective may not be repeated unless a student fails the course.

PUBLIC SPEAKING

COURSE #127 | 0.50 CREDIT | GRADES 10-12

This course is designed for students who want to gain confidence in public speaking situations and students who wish to advance their speaking skills. The course begins with interpersonal and small group communication and progresses to public speaking situations including various speech types. In a supportive learning environment, students will practice using movement, gestures, and voice to enhance their speech. Content, organization, and audience appeal are focus areas. Students will learn by doing but also by reviewing the speeches of others, including many famous speeches. This elective may not be repeated unless a student fails the course.

CREATIVE WRITING

COURSE #128 |0.50 CREDIT | GRADES 10-12

Creative Writing is an elective English class that will provide students with the opportunity to expand on and develop the writing techniques and skills learned in traditional English classes, but with a creative flair. Writing experiences will include creative nonfiction, short story writing, poetry, and drama. The class will include unusual, interesting, and stimulating creative writing activities to spark variety, spontaneity, and unpredictability during the creative process. Sharing and discussion will be an integral part of the course. This elective may not be repeated unless a student fails the course.

SPORTS LITERATURE

COURSE #132 | 0.50 CREDIT | (GRADES 10-12)

This course is designed to encourage students who like to read and discuss literature from the world of sports. Through a wide variety of activities, students will be able to display their passion, knowledge, and opinions by discussing current issues and significant historical events in the world of sports. Students will read articles and write responses on various sports and topics and will participate in class discussions which center on their written work. Students will also watch documentaries and other video clips and complete projects and lead discussions on what they viewed. Types of assignments include short stories, current issues, persuasive essays, newspaper articles/editorials, speeches/presentations, letter writing, school team project (reporting), and impromptu writing.
This elective may not be repeated unless a student fails the course.

FAMILY & CONSUMER SCIENCE

The mission of the Family and Consumer Science Department is to provide relevant instruction and practical hands-on experiences for students in the fields of food science and nutrition, textiles and apparel, human and child development, personal finance, and other consumer issues.

HOUSING & DESIGN

COURSE #533 | 0.50 CREDIT |GRADES 10-12

This elective course introduces the elements and principles of design, which will be applied as students learn how to create interior spaces using design software. Other topics include the historical heritage of homes, housing styles, furniture styles, consumer choices, budgeting, and career options. Students will create a design board as a final project.

SEWING STUDIO

COURSE#536 | 0.50 CREDIT | GRADES 9-12

This hands-on, half-credit elective begins with the fundamentals of sewing equipment and construction. Emphasis will first be placed on the mastery of basic skills and techniques. Then, the focus will be on the practical application of that knowledge. Students will construct multiple projects based on skills taught, topics covered, and individual abilities. A $20 - $25 lab fee will cover the cost of supplies that will be provided to you. You will also be responsible for the purchase of supplies for an individual project.

Students will explore:

Sewing machine parts • Sewing notions • Sewing equipment • Buttons & buttonholes • Sewing terminology

Zippers • Fabric selection and care • How to read and use a pattern • Specific sewing techniques This elective may not be repeated.

ADULT LIVING

COURSE #528 | 0.50 CREDIT |GRADES 11-12

This course is geared to helping the student along the road to independent living. Discussion and activities focus on topics of adulthood such as financial literacy, personal development, communication skills, and relationships. Topics covered include both reflective elements and interpersonal issues. Students will explore a variety of consumer choices that adults face, from finding a place to live to using money effectively.

JOY OF COOKING

COURSE #530 | 0.50 CREDIT |GRADES 9-12

This elective is designed to prepare students to feel competent with basic food preparation. This is a laboratory- based course along with teacher-directed class work. Topics included are kitchen safety & sanitation, kitchen tools & utensils, sauces, soups, salads, stir-frying, vegetables, and baking. This course is not recommended for students with severe food allergies or sensitivities (including gluten-free). Successful completion of this course with a 75% or better is a prerequisite for Global Foods and Baking and Pastry Arts.

GLOBAL FOODS

COURSE #531| 0.50 CREDIT | GRADES 9-12

Students are involved with more complicated cooking terms and techniques in Global Foods as we explore the influence of international cuisine. The course combines the preparation and tasting of foods from around the world along with the study of cultures and food traditions. International food terms and new types of food are introduced. Topics included are as follows:
Kitchen safety and sanitation • Utensils and tools • Cooking terms • Herbs and Spices • International cooking from Australia, Germany, Mexico, Italy, Greece, China, Africa, France, and Scandinavia.
This course is not recommended for students with severe food allergies or sensitivities (including gluten-free).
Prerequisite – Successful completion of Joy of Cooking with an 75% average or better.

BAKING AND PASTRY ARTS

COURSE #534 |.50 CREDIT| GRADES 9-12

This course is designed to provide opportunities for students to develop the skills associated with Baking and Pastry Arts. Students will review baking fundamentals and further develop those skills through instruction in more advanced technqiures included yeast and quick breads, pastry doughs, cookies, candies, confections, cake decorating, and plating techniques.
This course is not recommended for students with severe food allergies or sensitivities (including gluten-free).
Prerequisite – Successful completion of Joy of Cooking with an 75% average or better.

FOOD SCIENCE

COURSE #532 | 1 CREDIT| GRADES 11-12

This specialized course will introduce you to the main areas of food science, including food safety, food chemistry, food processing, and food development and marketing. Along with traditional coursework, you will complete hands-on activities, projects, and problem-solving activities. Our goal (and hope) is for you to understand the importance of the food industry and food preparation in your daily life, and just how much science is involved in the food we eat.

Prerequisites- Must have 75% or better in either Introduction to Agriscience or Joy of Cooking, and 75% or better in Biology.
Scheduling Note: Students taking this class as part of the agriculture elective sequence will also automatically be enrolled in the appropriate SAE level.

PARENTING & CHILD DEVELOPMENT

COURSE #535 | 0.50 CREDIT | GRADES 11-12

This elective offers students the opportunity to explore the facts, issues, and development involved in being a parent or childcare provider. It will investigate the emotional, financial, and physical preparation, as well as the joys and challenges of being a parent today. The developmental stages of children through the age of five will be discussed. Activities will include observation in a childcare or early childhood education setting and the “Real Care Baby” simulation.
This course will help students pursue a career such as a daycare provider, preschool aide or teacher, or elementary teacher.

FINE ARTS

The Schuylkill Valley High School Fine Arts Department is proud to offer a comprehensive program of instruction in musical and visual arts courses that are open and accessible to all students. These courses are planned to develop the basic knowledge, skills, and appreciation of artistic expression to inspire students to become life-long participants and consumers of the musical and visual arts.

In addition to instilling the intrinsic skills necessary to perform, create, understand, and respond to the musical and visual arts, these courses will:

- Benefit students in their intellectual, personal, and social development.
- Benefit students in the development of their intuition, imagination, and expressive communication.
- Explore the influence of the arts in their power to reflect diverse cultures.
- Enable students to development the most desired skills and positive characteristics sought by colleges, businesses, and corporations in our 21st-century society, including self-esteem, self-discipline, perseverance, dedication, work-ethic, teamwork, creativity, cooperation, sensitivity, and self-confidence.

FOUNDATIONS OF ART

COURSE #550 | 0.50 CREDIT | GRADES 9-12

This course is designed to encourage students to appreciate and understand art activities. Students will develop a foundation of basic art skills in drawing, painting, printmaking, and the making of crafts. The elements and principles of art and design will be stressed in this, the first of the art curriculum. A sketchbook will be kept and graded.

Students will be graded on their understanding of technique and artistic procedure.

Any students, regardless of career choices, may take Foundations of Art to continue their visual art experiences. All students considering an art-related career or a career in elementary or secondary education should consider taking this course.

ART 2D

COURSE #555 | 0.50 CREDIT | GRADES 10-12

Students involved in this course should have basic art talent in drawing, designing, and painting. Course projects may include:

2-Dimensional drawing and sketching • Watercolor • Printmaking and silk screening • History of art • Lettering and calligraphy • Acrylic painting • 2-Dimensional design • Color Mixing

Students will begin on teacher-motivated projects. Emphasis will be placed on Art History with projects relating to each painter/artist or period of art studied. The course is not only essential for college-bound students interested in the arts, but also for students who want to have a better appreciation and understanding of art.

Students considering a career in an art-related occupation or elementary/secondary education should consider taking Art 2D Level I. This is an excellent foundation course for students interested in architecture. Projects are more involved than those in Foundations of Art. More in-class time is required to complete 2D Level I visual projects. A sketchbook/notebook will be kept and graded.

Prerequisite – Successful completion of Foundations of Art or teacher recommendation.

ART 3D

COURSE #560 | 0.50 CREDIT |GRADES 10-12

Students in this course should have basic art talent in drawing, painting, and design. Course projects may include:

Ceramics – hand built • Wearable art • Stitchery – conventional and abstract • Sculpture – wood, clay, plaster, etc.

Felt making • Soft sculpture • Basketry –coiling techniques • Jewelry making • Paper making • Wood construction.

Book arts • Paper Mache and Cellucaly constructions

Students will begin with teacher-motivated projects. Interested students must be willing to aid in scenery design and set construction for school functions. Some projects include large sculptures.

Emphasis will be placed on Art History when applicable. 3-Dimensional projects and assignments with projects relating to different 3D artists, both historic as well as contemporary, or period of art studied. The course is not only essential for college-bound students interested in the arts, but also for students who want to have a better appreciation and understanding of art.

Students considering a career in an art-related occupation or elementary/secondary education should consider taking Art 3D. This is an excellent foundation course for students interested in architecture. Projects are more involved than those in Foundations of Art. More in-class time is required to complete 3D Level I visual projects. A sketchbook will be kept and graded.

Prerequisite – Successful completion of Foundations of Art or teacher recommendation.

DRAWING STUDIO LEVEL I

COURSE #572 | 1 CREDIT |GRADES 11-12

Students involved in this course should be interested in the technical aspects of drawing and the use of drawing materials. This course is for students who have taken 2D art. The class will partake in art critiques both online and during end of project gallery walks. This course is an in-depth study of drawing and the meaning behind the art making. Artist statements may be required to accompany projects. The course will present students with a variety of experiences, which may include:

Graphite renderings • Pen and ink • Colored pencil • Chalk • Oil pastel • Charcoal • Mixed media

This course is designed to challenge students who enjoy drawing and want to explore different drawing mediums. Students will be expected to produce high-level sketches for grades and peer critiques. This course should be taken by anyone interested in pursuing a career in art or architecture. Students will concentrate on individual work.

A final portfolio of student work will be presented to the class. Students will be required to keep an art journal/sketchbook to show how the work is conceived and ultimately finalized. This course is an in-depth study of the ceramic arts and processes and artists. This course may be repeated.

This studio course may be taken as an independent study.

Prerequisite: Successful completion of Foundations of Art and Art 2D, with an 80% Average or better and/or teacher recommendation.

DRAWING STUDIO LEVEL II

COURSE #551 | 1 CREDIT | GRADES 11-12)

Students involved in this course will have completed both 2D and the first level of Drawing Studio Art. Students should be interested in the technical aspects of drawing and the use of drawing materials. This course is for students who have taken the first level of Drawing Studio art and wish to further pursue their drawing skills. The class will partake in art critiques both inline and during end of project gallery walks.

This course is a high-level in- depth study of drawing and the meaning behind the art making. Artist statements may be required to accompany projects. The course will present students with a variety of experiences, which may include more technique in:

Graphite renderings • Pen and ink • Colored Pencil • Chalk • Oil Pastel • Charcoal • Various Mixed Media
This course is designed to further challenge students who enjoy drawing and want to explore different drawing mediums. Students will be expected to produce high-level sketches for grades and peer critiques. This course should be taken by anyone interested in pursuing a career in art or architecture. Students will concentrate on individual work. A final portfolio of student work will be presented to the class. Students will be required to keep an art journal/sketchbook to show how the work is conceived and ultimately finalized. This course is an in-depth study of drawing processes and artists. This course may be repeated. This course may be taken as in independent study.

Prerequisite: Successful completion of Foundations of Art, Art 2D, and Drawing Studio Level I, with an 80% average or better and/or teacher recommendation.

CERAMICS STUDIO LEVEL I

COURSE #571 | 1 CREDIT | GRADES 11-12

This course is for highly motivated students who have taken at least one level of 3D art. Art history will serve as a basis for this course. The course will introduce students to the significance of information obtained through ceramic work throughout history. The course will present students with a variety of ceramic experiences, which may include:
Hand building • Slab work • Coiling • Wheel throwing • Plaster cast molding • Slip casting • Slip decoration • Trimming technique • Scraffito • Glaze decoration and mixing.
This course should be taken by students interested in the organic properties of clay and glaze. Anyone interested in 3-dimensional work will enjoy this course. Students will be graded on individual progression throughout the course.
Students will concentrate on individual work. A final portfolio of student work will be presented to the class. Students will be required to keep an art journal/sketchbook to show how the work is conceived and finalized. This course is an in-depth study of ceramic arts and processes.
This course may be repeated. This studio course may be taken as an independent study.

Prerequisite: Successful completion of Foundations of Art and 3D Level I, with an 80% or above, and/or teacher recommendation.

CERAMICS STUDIO LEVEL II

COURSE #552 | 1 CREDIT| GRADES 11-12

This course is for highly motivated 3-dimensional students who have successfully taken the first level of Ceramics Studio Art. Art History will serve as a basis for this course. The course will introduce students to the significance of information obtained through ceramic work throughout history. The course will present students with a variety of ceramic experiences, which may include higher level:
Hand building • Slab work • Coiling • Wheel throwing • Plaster cast molding • Slip casting • Slip decoration • Trimming technique • Scraffito • Glaze decoration and mixing
This course should be taken by students interested in the organic properties of clay and glaze. Anyone interested in furthering his or her knowledge of ceramic work will enjoy this course. Students will be graded on individual progression throughout the course. Students will concentrate on individual work. A final portfolio of student work will be presented to the class. Students will be required to keep an art journal/sketchbook to show how the work is conceived and finalized. This course is an in-depth study of ceramic arts and processes. This course may be repeated.
This studio course may be taken as an independent study.

Prerequisite: Successful completion of Foundations of Art, 3D art, and Ceramics Studio Level I, with an 80% or above, and/or teacher recommendation.

PAINTING STUDIO I

COURSE #574 | 0.50 CREDIT |GRADES 11-12

This course is for students who have taken at least one level of 2D art and are interested in painting as a medium. Art history will serve as a basis for this course. The course will introduce students to a higher level of compositional components and the use of techniques when using various painting mediums. This course will expose students to a variety of painting experiences including:
Watercolor painting • Layering • Washes • Acrylic painting • Plaster paint application • Oil painting • Gouache • Inks
Scraffito • Decoration and mixing • Graffiti (spraying and air gun application) • Mixed media.
This course should be taken by students interested in experiencing different painting techniques. The course will cover conventional as well as non-conventional painting techniques. Anyone interested in 2-dimensional work will enjoy this course. Students will be graded on individual progression throughout the course. Students will concentrate on individual work. A final portfolio of student work will be presented to the class. Students will be required to keep an art journal/sketchbook to show work in process and the finalization of projects. This course is an in-depth study of painting and its' processes. This course may be repeated.
This studio course may be taken as an independent study.

Prerequisite: Successful completion of Foundations of Art and 2D Level I, with an 80% or above, and/or teacher recommendation.

PAINTING STUDIO II

COURSE #554 | 0.50 CREDIT |GRADES 11-12

This course is for students who have successfully completed Painting Studio I. Historical as well as current painting artists will serve as the concentration for this course. The course will introduce students to an even higher level of compositional components and the use of painting techniques when using painting mediums. This course will expose students to a variety of painting experiences including Watercolor painting, Layering, Washes, Acrylic painting, Plaster paint application, Oil painting, Gouache, Inks, Scraffito, Decoration and mixing, Graffiti (spraying and air gun application), Mixed media.
This course should be taken by students interested in further exploration of different painting techniques. The course will cover conventional as well as non-conventional.
painting techniques. Students will be graded on individual progression throughout the course. Students will concentrate on individual work. A final portfolio of student work will be presented to the class. Students will be required to keep an art journal/ sketchbook to show work in process and the finalization of projects. This course is an in-depth study of painting and its processes.
This course may be repeated. This studio course may be taken as an independent study.

Prerequisite: Successful completion of Painting Studio Level I, with an 80% or above, and/or teacher recommendation.

FIBER ARTS STUDIO I

COURSE #567 | 0.50 CREDIT| GRADES 11-12

This course is for students who have taken at least one level of 2D or 3D art and are interested in fibers as an art medium. Art history will serve as a basis for this course. This course will introduce students to fiber arts around the world and throughout history. Early tapestry and embroidery as well as modern fashion design will be explored. The course will present students with a variety of Fiber Art experiences, which may include:
Weaving- loom and non-loom • Book binding • Tapestry • Paper Making • Embroidery • Sewing- hand stitch and machine • Applique • Quilting- hand and machine • Fabric painting • Batik (fabric/fiber dying) • Cyanotype and
Heliographic • Felting • Knitting • Rug hooking • Braiding/plaiting • Macramé • Flocking (texture making) •

Fashion design.
This course is highly beneficial to students interested in interior design, or a career in fashion design. Students will be graded on individual progression throughout the course. Students will concentrate on individual work. A final portfolio of student work will be presented to the class. Students will be required to keep an art journal/sketchbook to show how the work is conceived and ultimately finalized. This course is an overview of fiber arts and processes in which the work is created.

Prerequisite: Successful completion of Foundations of Art and either 2D Level I or 3D Level I, with 80% or above, and/or teacher recommendation.

FIBER ARTS STUDIO II

COURSE #568 | 0.50 CREDIT | GRADES 11-12

This course is for students who have successfully completed Fiber Arts Studio Level I. The course will concentrate on the introduction of various fiber arts and artists around the world. Early tapestry and embroidery as well as modern fashion design will be explored. The course will further present students with a variety of Fiber Art experiences, which may include:
Weaving- loom and non-loom • Book binding • Tapestry • Paper making • Embroidery • Sewing- hand stitch and machine • Applique • Quilting- hand and machine • Fabric painting • Batik (fabric/fiber dying) • Cyanotype and Heliographic • Felting • Knitting • Rug hooking • Braiding/plaiting • Macramé • Flocking (texture making) • Fashion design.
This course is highly beneficial to students interested in interior design, or a career in fashion design. Students will be graded on individual progression throughout the course. Students will concentrate on individual work. A final portfolio of student work will be presented to the class. Students will be required to keep an art journal/sketchbook to show how the work is conceived and finalized. This course is an overview of fiber arts and processes in which the work is created.

Prerequisite: Successful completion of Fiber Arts Studio Level I with an 80% or above, and/or teacher recommendation.

INDEPENDENT STUDY: PORTFOLIO STUDIO

COURSE #570 | 0.50 CREDIT |GRADES 11-12 | WEEKLY MEETING SET UP WITH INSTRUCTOR

This course is to be taken as an independent study. This studio course is for highly motivated art students who plan to further their study of art post high school. The instructor will help the student prepare a final portfolio for submission when applying to higher education establishments. Students will provide the instructor with a project plan for the year of work they would like to add to their final portfolio. Students will be required to set up weekly portfolio checks with the instructor and keep an ongoing journal/sketchbook to show the work in progression before the final projects are turned in for a grade.
This course is beneficial to students interested in an arts career and business career. Students must present their work professionally for critique by a panel of their peers. Work will need to be finished and matted by previously set deadlines. Students will be introduced to marketing, advertising, and show/exhibit preparation requirements. Visiting artists and valuable art contacts will be introduced to students.

Prerequisite: 2D Level I, or 3D Level I, or by teacher recommendation.

ART HISTORY AP

COURSE #565 | ODD YEAR | 1 CREDIT | GRADES 10-12

This course is for highly motivated students. The level of the art involves self-direction encouraged by the instructor. Students will be introduced to the study of man through his art. Art projects may be included as an aide in the understanding of the subject matter involved in this course. The material covered—from prehistoric art to contemporary trends—will enable students to be more prepared for any academic work. Students who complete this course will take the Art History AP exam. Projects may include: Egyptian fresco painting • Medieval illuminations • Renaissance perspective • Painting – realism

This course is designed to challenge students and to promote appreciation, enjoyment, and understanding of works of art throughout history. Major forms of expression are presented and evaluated with a concentration on the role that the artist has played in the history of man. Students who are preparing for an art-related occupation may use the projects in this course to develop a portfolio. A study of the aesthetics and criticism of art will follow the individual and serve useful throughout their life. A sketchbook/notebook will be kept and included in the final evaluation. At least two museum trips will be taken with extensive introductory material presented prior to each excursion. Gallery visits may also be considered at this level when possible. This course is not only for art career-minded students. Students who want to extend their knowledge in the humanities should consider taking this course. All students taking this course must take the appropriate AP test. This course is offered in odd numbered years only.

Prerequisite: Successful completion of American History with an 80% or higher.

ART HER STORY

COURSE #569| EVEN YEAR | 1 CREDIT | GRADES 10-12

This course is for highly motivated students designed to explore issues concerning women in the arts and culture. This course will provide a forum for discussion through research and questioning. Many topics will be explored as we share our questions and concerns in a seminar format. This level of art involves self-direction encouraged by the instructor. Students will be studying art through primarily female artists. Art projects may be included as an aid in the understanding of the subject matter involved in this course. The material covered will explore the portrayal of women and the way in which cultural definitions of gender shape women's aesthetic expression.

This course is designed to challenge students and to promote an appreciation, enjoyment, and understanding of works of female artwork throughout history. Major forms of expression are presented and evaluated with a concentration on the role that the female artist has played in the history of art. Students who are preparing for an art-related occupation may use the papers written in this course in their art portfolio. A study of the aesthetics and criticism of art will follow the individual and serve useful throughout their life. A sketchbook/notebook will be kept and included in the final evaluation. At least two museum visits will be taken with extensive introductory material presented prior to each excursion. Gallery visits may also be considered at this level when possible. This course is not only for art career-minded students. Students who want to extend their knowledge in the humanities should consider taking this course. This course is offered in even numbered years only.

Prerequisite: Successful completion of American History with an 80% or higher.

CHORUS

COURSE #575 | 1 CREDIT | GRADES 9-12

Chorus is for all students who wish to gain experience in any vocal ensemble. Chorus offers a chance to

learn various musical styles including traditional, contemporary, pop, show, and jazz vocal literature. No audition is required for participation in Chorus.

Students will be given academic credit for their work in the Chorus. Requirements for this course include participation in all concerts and preparatory rehearsals and satisfactory attendance at vocal/sectional sessions (scheduled during study hall period).

Students intending to participate in the annual Panthers-On-Parade musical production are strongly encouraged to enroll in Chorus. Chorus is a required course for students planning to audition for and participate in Valley Voices (select ensemble) and/or choruses on the county, district, region, and state levels.

Chorus may be scheduled in combination with Band. In that event, students will receive .50 credit for Chorus. Scheduling conflicts with other courses may be resolved for partial Chorus credit with the approval of the chorus director.

Prerequisite – A minimum final average grade of 83% for returning chorus members, along with the approval of the chorus director. There is no grade prerequisite for first-year members.

BAND

COURSE #576| 1 CREDIT | GRADES 9-12

Band is a course for all students who wish to participate in any school instrumental activities. The concert band will be the fundamental performing group of this course and offers an opportunity to learn a variety of musical styles, including contemporary, pop, show, jazz, marching, and standard band literature. All students will be given academic credit for their work in Band. Requirements for this course include regular lesson attendance, quarterly playing exams, and participation in all concerts, marching performances, and preparatory rehearsals. Students participating in all marching performances will receive a .5 weight for the course.

Students intending to participate in jazz band, Panthers-On-Parade pit orchestra, and smaller ensembles, in addition to those interested in auditioning for and participating in county, district, region, and state band and orchestra, are required to schedule Band. Band may be scheduled in combination with Chorus. In that event, students will receive a .50 credit for Band. Scheduling conflicts with other courses may be resolved for partial Band credit with the approval of the band director.

Prerequisite – A minimum final average grade of 83% for returning band members, along with the approval of the band director. There is no grade prerequisite for first year members.

MUSIC THEORY I

COURSE #581| 0.50 CREDIT | GRADES 10-12

Music Theory I will allow students to explore music theory and history through a technical and historical approach. This course is directed toward students with little to no vocal or instrumental music background and/or an interest in reading and performing music and consists of two areas of concentration:

1. Introductory written theory of the elements of music.
2. Historical study of classical and contemporary musical time periods and significant composers of those times.

MUSIC THEORY II

COURSE #584 | 1 CREDIT | GRADES 10-12

Music Theory II is an advanced course designed for students seriously interested in pursing a career in music after high school. Students will learn advanced music theory and history, ear training, orchestration, composition, counter points, beginning conducting, music literature, and some keyboard skills. This course will cover college-level theory material and will prepare the student for college entrance

exams and auditions.

Prerequisite – Successful completion of Music Major I or special permission from teacher.

PIANO I

COURSE #585 | 0.50 CREDIT | GRADES 9-12

This class is designed for the beginning student who wishes to learn the fundamentals of playing the piano. Students will demonstrate adequate motor skill development through the performance of a variety of piano repertoire. The electronic keyboard lab facilities will be used for both individual and group instruction. Students who have had more than one year of piano instruction should not take this course. Section limit: 10 seats.

PIANO II

COURSE #586 | 0.50 CREDIT | (GRADES 10-12)

This class runs like an independent study that is designed for students who have had piano or are familiar with the keyboard and reading of two clefs. Students who have had more than one year of piano instruction or the Piano I class may take this course. Focus will be on sight-reading, repertoire for the advanced-beginner, rhythmic notation, two-handed note-reading with both clefs, and interpretation. The electronic keyboard lab will be used for both individual and group instruction. Section limit: 10 seats.

Prerequisite – Successful completion of Piano I or special permission from teacher.

MUSIC PRODUCTION

COURSE #587 | 0.50 CREDIT | GRADES 10-12

Music Production will introduce students to the theory and fundamentals of using software and hardware tools for producing music (including desktop PC, waveform editor, and multi-track recording software, and synthesizer keyboard, signal processing plug-ins, computer music notation software, and microphone technique). The class will stress application and creative content using a series of creative activities and projects which gives students exposure to performing with electronic instruments, multitrack recording (both MIDI sequencing and live instruments), music arranging, generating performance materials for others (type-setting music), and equipment configuration.

This course is a hands-on, applied class delivering to class members an experience with four or five music software applications: Apple Music (for play-back, mastering, and burning), Audacity (wave form audio editor), and Garage Band (entry- level digital audio workstation). These programs represent a substantial portion of the types of things musicians are doing with music technology currently, and span in sophistication from entry-level to professional.

Although there will be some flexibility to work ahead, this course can only cover beginning to intermediate types of operations. This course will take place in the Apple/Mac computer lab. Section limit: 6 seats.

THE HISTORY OF POPULAR MUSIC: PRE-BOP TO HIP-HOP

COURSE#591 |0.50 CREDIT| GRADES 9-12

This course examines the historical significance of popular music in the United States from the late nineteenth century to the present. No musical training is necessary to enroll in the course; however, this course will analyze music as a dynamic historical force, examining it not only as text, but also in its embedded contexts: the cultural, social, political, and economic dimensions of genres ranging from Tin Pan Alley to blues, jazz, rhythm and blues, country, folk, soul, rock, disco, hip-hop, and classical music. This course will work toward a set of overarching themes, we will explore popular music as an art form, a

business, a medium for shaping identity and making meaning, an entity encompassing both conflict and consensus, a local, national, and global phenomenon, the role of media and technology in musical development, and a key area in the life of Americans.

This course is designed to promote an appreciation, enjoyment, and understanding of the musical that influences the popular music of today. In this course, students will examine the characteristics of popular music, develop listening skills, identify key musical features, and study the cultural and historical context of American popular music. This course should allow students to gain an appreciation of the styles of music that influenced the music we listen to today.

THEATRE

COURSE #125 | 0.50 CREDIT | GRADES 10-12

This course is designed to explore the art of Theatre. It is designed as a workshop in which students will study mime, voice, and diction, acting, improvisation, and choreography. Students will perform individually and in groups. If time permits, study in all facets of theatre production (from conception to production) will take place. The utilization of video will accompany learned theatrical techniques. This elective may not be repeated unless a student fails the course.

FITNESS & WELLNESS

The Physical Education Department engages students educationally and physically to promote lifelong wellness. Grade 9 and 10 students may only choose one PE offering each year.

FITNESS PE

COURSE #701 | 0.50 CREDIT | GRADES 9-12

This course is for students in grades 9-12 who want to engage in a variety of fitness activities and work on their components of fitness (flexibility, CV Endurance, Muscular Strength/Endurance, Body Composition). The main goal is to fine-tune the fitness levels of students while engaging in fitness-related workouts. This course will be co-ed. Grades are based on effort, participation, and work ethic each quarter. Can be taken to fulfill as the PE requirement and/or elective.

SPORTS PE

COURSE #702 | 0.50 CREDIT | GRADES 9-12

This course is for students in grades 9-12 who wish to be in a competitive atmosphere and put forth a good amount of effort while engaging in sports-related activities. Activities include engaging in various sports-related games, student-made games, fitness activities, and life-long games. This course will be co-ed. Grades are based on effort, participation, and work ethic each quarter. Can be taken to fulfill as the PE requirement and/or elective.

WELLNESS EDUCATION

COURSE #721 | 0.50 CREDIT| GRADES 10-12

Wellness Education is required for graduation and meets every day for one semester. This course includes the study of mental health, heart disease and cancer, human sexuality, family life education, chemical abuse education, an overview of CPR, and striving for life-long wellness. This course includes lectures, discussions, cooperative activities, DVD's, student projects, and unit testing for evaluation.

FIRST AID CPR/AED

COURSE #724 |0.50 CREDIT| GRADES 10-12

Students will be certified in First Aid, Adult/Child/Infant CPR and AED. There is a fee required to pay for the American Heart Association Course Completion Cards. The card is optional, so students do not obtain a card to pass the course. Elements of Athletic Training will also be covered.

STRENGTH TRAINING

COURSE #726 | 0.50 CREDIT | GRADES 9-12

This course is for students in grades 9 - 12 who want to engage in strength / fitness training using various equipment and techniques. The focus of the course is in program development and completing weightlifting exercises that will increase overall athletic performance and general fitness. Students will be assessed on their preparedness, effort and attitude, ability to spot and lift safely, and their overall performance. This is a co-ed class, and it can be taken to fulfill as the PE requirement and/or elective.

INTRODUCTION TO STRENGTH TRAINING

COURSE #735 |0.50 CREDIT| GRADE 9 OR FIRST-TIME LIFTERS

This course is for students in grade 9 who want to engage in strength / fitness training using various equipment and techniques. The focus of the course is in the introduction to program development and completing weight lifting exercises that will increase overall athletic performance and general fitness. Students will be assessed on their preparedness, effort and attitude, ability to spot and lift safely, and their overall performance. This is a co-ed class, and it can be taken to fulfill as the PE requirement and/or elective.

STRENGTH & CONDITIONING

COURSE #727| 1 CREDIT | PER 8 | GRADES 9-12

This course is for students / athletes in grades 9 - 12 who want to engage in vigorous strength & conditioning / plyometric / speed training workouts using various equipment and techniques. The focus of the course is on the enhancement of athletic performance and concentrating on becoming bigger, faster, and stronger. Students will be assessed on their preparedness, effort and attitude, ability to spot and lift safely, and their overall performance in strength, agility, speed, and power. This is a co-ed class. Extended workout time may be available for participants in this class. Can be taken to fulfill as the PE requirement.

STRENGTH & CONDITIONING FOR ATHLETES

COURSE #728 | 1 CREDIT | GRADES 10-12

This course is for serious student athletes in grades 10 - 12. Students must participate in a Schuylkill Valley sponsored sport / activity to register for this class. Students will engage in multiple aspects of strength & conditioning programs. The focus of the course is on improvement of athletic performance, speed & conditioning, power & explosiveness. Students must arrive at school dressed for class and be ready to start class at 7:35 am.

Class size is limited to 24 students. This is a co-ed class. Can be taken to fulfill as the PE requirement and/or elective.

Prerequisite - Students must have a final average grade of a B in any Schuylkill Valley Physical Education class the year prior to registering.

PIAA OFFICIALS TRAINING & CERTIFICATION COURSE

COURSE #723 | .5 CREDIT | GRADES 10-12

This course will be designed to help support the PIAA official shortage in Pennsylvania. In thos course, students will register for a PIAA account, receive an official NFHS rules book, practice testing materials, and be able to test to become a PIAA official. During the course work students will learn about officiating rules, sport specific rules, sportsmanship expectations, and much more. This course will be designed for students who would want to become an active PIAA official.

**A possible fee from PIAA may need to be paid by the student for this course.

MATHEMATICS

The mission of the Schuylkill Valley High School Mathematics Department is to provide an education in mathematics that will enable students to realize their full potential and to become successful members of an ever- changing world.
This will be accomplished by creating an environment where students will be encouraged and challenged to develop skills in analysis, problem-solving, reasoning, creativity, and collaboration. Moreover, the Math Department, through high expectations and appropriate use of technology, will help students to think mathematically and to become life-long learners.

ALGEBRA I

COURSE #322 | 1 CREDIT | GRADES 9-11

All students will take the Keystone Algebra I exam in the spring.
This course is a continuation of Algebra IA, which began in middle school. The focus will be on the following topics: quadratics, factoring, systems of equations, radicals, and algebraic expressions. This course also provides the tools needed to establish a solid base of skills and concepts in first year Algebra. Topics included are signed numbers, linear equations, systems of linear equations, operations with polynomials and fractions, factoring, and coordinate planes. Students will take the Keystone Exam for Algebra I at the end of this course. The Mathematics Department strongly encourages students in this course to purchase their own scientific calculators.

KEYSTONE ALGEBRA I

COURSE #325| 0.50 CREDIT| GRADE 9

This course is designed for students who did not pass the Keystone exam in 8th grade. This course is a review of Algebra 1. The focus will be on the following topics: polynomials, algebraic expressions, coordinate geometry, systems of equations, inequalities, functions and data analysis. This course also provides the tools needed to establish a solid base of skills and concepts in first year Algebra. Topics included are signed numbers, linear equations, systems of linear equations, operations with polynomials and fractions, factoring, and coordinate planes. Students will retake the Keystone Exam for Algebra I at the end of this course during the Winter or Spring testing window depending on which semester the course is taken. The Mathematics Department strongly encourages students in this course to purchase their own scientific calculators.

ACCELERATED ALGEBRA 2 (PAIR WITH ACCELERATED GEOMETRY)

COURSE #313 | 1 CREDIT | GRADE 9
COURSE #314|0.50 CREDIT| GRADE 9

This weighted course is designed to integrate two single year courses into one academic year. Students will take a year-long Accelerated Algebra 2 Class and a required additional semester of Accelerated Geometry their ninth-grade year. Students considering a career in the STEM fields are encouraged to select this course as an accelerated track to take Precalculus their sophomore year, AP Calculus AB during their junior year, and AP Calculus BC their senior year. This is a rigorous course, combining concepts of Algebra 2 such as: linear equations, inequalities, polynomials, rational expressions, radicals, functions, quadratic expressions, and complex numbers with geometric areas of concentration including: parallel lines, triangles and other polygons, circles, coordinate geometry, angle relationships, proof and reasoning, and logic. Students should realize that the homework load of this course will be heavier than

other ninth-grade math courses. This course does have a summer homework requirement.

Prerequisite- Teacher recommendation. Students must enroll in both courses. It is recommended that students have attained a 90% average for the year in Algebra I.

GEOMETRY HONORS

COURSE #315 | 1 CREDIT | GRADES 9-11

This course is designed to develop an understanding of the deductive thought process within the realm of Euclidean geometry. It is designed to provide a foundation for more advanced science and mathematics courses with a view toward future college success in those areas.
Areas of concentration include parallel lines, triangles and other polygons, transformations, congruency, similarity, circles, coordinate geometry, area, and volume. For students to gain complete knowledge of the material this course, will have students develop and write their own proofs. The Mathematics Department strongly encourages students in this course to purchase their own scientific calculators.

Prerequisite – It is recommended that students have attained a 78% average for the year and scored 80% or higher in at least 3 out of the four quarters in a previous honors course or finished with a 93% average or better in an Academic–level course in the same curriculum area.

GEOMETRY

COURSE #316 | 1 CREDIT | GRADES 9-11

This geometry course is designed to develop an understanding of deductive reasoning through geometric proofs. Applications of geometric principles and interrelationships with other fields of mathematics are stressed. Areas of concentration include parallel lines, triangles and other polygons, congruency and similarity, circles, coordinate geometry, area, and volume.
The Mathematics Department strongly encourages students in this course to purchase their own scientific calculators.

Prerequisite – Successful completion of Algebra I or Keystone Algebra.

ALGEBRA II HONORS

COURSE #310 | 1 CREDIT | GRADES 10-11

This course builds upon the foundations laid in the Algebra I course and is a rigorous comprehensive approach to second year algebra. The topics include linear equations, inequalities, polynomials, rational expressions, radicals, functions, quadratic expressions, and complex numbers. Special consideration will be given to problem solving techniques as they apply to real world situations. The Mathematics Department strongly encourages students in this course to purchase their own scientific calculators.

Prerequisite – Students must have successfully completed Algebra I and attained a 78% average for the year and scored 80% or higher in at least 3 out of the four quarters in a previous Honors course or a 93% average or better in an Academic-level course in the same curriculum area.

ALGEBRA II

COURSE #311 | 1 CREDIT | GRADES 10-12

This course reviews the concepts of Algebra I but in greater depth. It also covers new concepts, which will be necessary to prepare students for possible college experience and success. The topics studied

include linear and quadratic equations and inequalities, polynomials, rational and irrational expressions, radicals, complex numbers, and functions. Special consideration will be given to problem solving techniques as they apply to real world situations. The Mathematics Department strongly encourages students in this course to purchase their own scientific calculators.

Prerequisite – Successful completion of Algebra I or Keystone Algebra.

KEYSTONE ALGEBRA 2

COURSE #324 | 1 CREDIT| GRADES 10-12

This course is a continuation of Keystone Algebra, especially designed for students who struggled in Keystone Algebra and/or did not pass the Keystone Algebra I exam. This course will initially focus on reviewing Algebra I skills and preparing students for additional opportunies to take the Keystone Algebra I exam. The early focus will be on the following topics: signed numbers, linear equations, systems of linear equations, operations with polynomials and fractions, factoring, quadratics, systems of equations, radicals, algebraic expressions, and coordinate planes. Eventually the course will study traditional Algebra II topics such as: polynomials, rational and irrational expressions, radicals, complex numbers, and functions. Special consideration will be given to problem solving techniques as they apply to real world situations. The Mathematics Department strongly encourages students in this course to purchase their own scientific calculators.

Prerequisite - Successful completion of Keystone Algebra with teacher recommendation.

ALGEBRA III/TRIGONOMETRY

COURSE #308 | 1 CREDIT | GRADE 11

Students will review Algebra II skills including solving equations and inequalities, graphs of equations, functions, analyzing graphs of functions, transformations of functions, combinations of functions, inverse functions, and factoring. Following the review, students will learn trigonometric topics involving right triangle trigonometry, trigonometric functions of any angle, graphs of trigonometric functions and inverse trigonometric functions, Unit circle, trigonometric identities, law of sines, law of cosines, exponential functions, and graphs and vectors. Students will use graphing calculators to study the behavior of functions. The Mathematics Department strongly encourages students in this course to purchase their own graphing calculators.

Prerequisite – Successful completion of Algebra II and Geometry or teacher recommendation.

ADVANCED ALGEBRA/ TRIGONOMETRY

COURSE # 306 | 1 CREDIT | GRADES 11-12

This course is designed for students preparing for college-level mathematics. It extends the topics in Algebra II and introduces trigonometric functions and applications. Topic studies include complex numbers, quadratic equations and their graphs, logarithmic functions, trigonometric functions, identities, and solving triangles. The Mathematics Department strongly encourages students in this course to purchase their own graphing calculators.

Prerequisite – Successful completion of Algebra II and Geometry, with at least 75% in Algebra II.

PRECALCULUS/ TRIGONOMETRY HONORS

COURSE #305 | 1 CREDIT | GRADES 10-12

This honors course is designed to provide the essential concepts and skills of Algebra, Trigonometry, and

the study of functions that are needed for further study in mathematics. Special emphasis is given to preparation for the study of Calculus. Topics included are linear and quadratic functions, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, conic sections, and sequences and series. Students considering a career in math- or science-related areas should give serious consideration to this course.

Prerequisite – Successful completion of Algebra II Honors and Geometry with at least an 83% average or successful completion of Accelerated Alg2/Geometry with at least a 75% average and teacher recommendation from either class.

ACCELERATED PRECALCULUS

COURSE #309 | 1 CREDIT | GRADE 10

This weighted course is the continuation of the accelerated Algebra 2/Geometry Honors course taken in grade 9. It is designed to provide the essential concepts and skills of Algebra, Trigonometry, and the study of functions that are needed for further study in mathematics. Special emphasis is given to preparation for the study of AP Calculus. Topics included are linear and quadratic functions, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, conic sections, limits and sequences and series.

Prerequisite – Successful completion of Accelerated Algebra 2/Geometry Honors with at least a 78% average for the year and scored 80% or higher in at least 3 out of the four quarters and teacher recommendation.

CALCULUS- WITH ANALYTIC GEOMETRY

COURSE #301 | 1 CREDIT | GRADE 12

The first several weeks will look at equations of lines, linear models, rates of change, functions, and their graphs. The remainder of the year is spent studying both differential and integral calculus. Topics include limits, related rates, extrema, maximum/minimum problems, area under curves, inverse, and exponential functions. This course is invaluable to students planning to major in a math- or science-related curriculum in college. Note: Business majors are required to take Calculus in many college programs. The Mathematics Department strongly encourages students in this course to purchase their own TI-84 calculators.

Prerequisite – Successful completion of Advanced Alg/Trig (with at least an 83% average) or at least a 73% average in Pre- Calculus.

AP CALCULUS AB

COURSE #300 | 1 CREDIT | GRADES 11-12

This course is designed to prepare students to take the AP Calculus Examination. All topics on the AP Calculus AB exam will be covered. All students taking this course must take the Advanced Placement Examination. Students who have completed or are enrolled in Calculus with Analytic Geometry may not take this course. The Mathematics Department strongly encourages students in this course to purchase their own TI-84 calculators.

Prerequisite – Successful completion of Pre-Calculus with at least an 83% average and teacher recommendation or successful completion of Accelerated Pre-Calculus with at least an 83% average and teacher recommendation.

AP CALCULUS BC

COURSE #302 | 1 CREDIT | GRADES 11-12

This course is designed to prepare students to take the AP Calculus Examination. All topics on the BC exam will be covered. All students taking this course must take the Advanced Placement Examination. Students who have completed or are enrolled in Calculus with Analytic Geometry may not take this course. The Mathematics Department strongly encourages students in this course to purchase their own TI-84 calculators.

Prerequisite – Successful completion of AP Calculus AB with at least a 75% average and teacher recommendation.

MATHEMATICS OF PERSONAL FINANCE

COURSE #327 | 1 CREDIT | GRADE 12

The purpose of this course is to develop a mathematical understanding of selected subjects in actual financial applications such as: payroll structures, bank accounts, compound interest, methods of taxation, credit card and loan comparisons in regard to interest, automobile and home purchase, retirement accounts and investments, and budgeting. The course will also study the mathematics behind retail transactions, depreciation, overhead distribution, and payroll procedures. Students taking this course will be expected to do internet research and complete projects. The Mathematics Department strongly encourages students in this course to purchase their own scientific calculators.

Prerequisite – Successful completion of Geometry.

FINANCE

COURSE #326 | 1 CREDIT| GRADES 11-12

This course is designed to give students an in-depth understanding of the economy and how it impacts the financial world (both personal and corporate). The course will combine topics in economics with applications of mathematical concepts dealing with finance. Various topics will be explored, including (but not limited to) the following: the job market, taxes, the banking industry, credit, types of loans (including auto and home), compound interest, automobile and home purchases, property taxes, investments, insurance, healthcare, budgeting, inflation, and global market.

This course also includes a unit on preparing for college and the college financial process, including filling out the FAFSA form. This course is appropriate for students who plan to pursue some form of post-high school education such as a two- or four-year college. Students may not earn credit for both Mathematics of Personal Finance and Finance.

Prerequisite – Successful completion of Algebra II.

STATISTICS

COURSE #329 | 1 CREDIT | GRADES 11-12

This course is designed for students who are interested in a college level applied math course. Students will study topics that include descriptive statistics, probability, discrete and probability distributions, confidence intervals, hypothesis testing, correlation and regression, sampling, and experimentation. This course places a heavy emphasis on analysis. Students are expected to solve application problems and draw written conclusions based on the numeric solution. The Mathematics Department strongly encourages students in this course to purchase their own TI-84 calculators.

Prerequisite – Successful completion of Algebra II.

AP STATISTICS

COURSE #330| 1 CREDIT | GRADE 12

This course is designed to prepare students to take the AP Statistics Exam. All topics on the exam will be covered including displaying data, density curves (including the Normal curve), sampling, experimentation, probability, sampling distributions, confidence intervals, hypothesis testing correlation, linear regression, and analysis of variance. This course places a heavy emphasis on being able to do data analysis. Students will be expected to read through and comprehend real world application problems. Students will have to compute numeric solutions and make written conclusions based on in depth data analysis.

All students taking this course must take the AP Exam. Students who have completed or are enrolled in Statistics may not take this course. The Mathematics Department strongly encourages students in this course to purchase their own TI-84 calculators.

Prerequisite – Successful completion of Advanced Algebra/Trig with at least an 83% or completion of Precalculus, Accelerated Precalculus, or AP Calculus (AB or BC)

SCIENCE

The Schuylkill Valley High School's Science Department's mission is to develop scientific literacy and provide all students with college and career-ready skills. Our vision is to provide all students with a high-quality science education that includes hands-on laboratory experiments, applications of technological tools, problem-solving, critical-thinking, oral and written communication skills, collaboration, and creativity. We offer opportunities for our students to become scientifically literate and to be successful on mandated state and federal assessments.

To graduate from SVHS, all students must take a science class in their freshmen, sophomore, and junior years. For a student's senior year, a student may choose to take either a math or science course.

HONORS EARTH SCIENCE

COURSE #419 | 1 CREDIT

The purpose of this course is to broaden students' understanding of the physical world around them. This course will look at all four branches of Earth Science: Geology, Oceanography, Meteorology, and Astronomy in more detail and at a more accelerated pace. The course will look at the interaction of each branch and their relevance to everyday life. Focus will be on the forces that shape the planet's surface, understanding the conditions that occur in the atmosphere, the history of the planet, stellar bodies and their activities, and the ocean's dynamics. Students will be actively engaged in laboratory experiments, class discussions, and special projects related to the four branches of Earth Science. Selected freshman Biology H students will be recommended by their science teacher to enroll in Earth and Space Honors.

To enroll in this course:

1. Students must have completed Algebra I in 8th grade with a minimum 90% overall average.
2. Students must have completed Biology with a minimum 90% overall average.

ACADEMIC EARTH AND SPACE SCIENCE

COURSE #416 | 1 CREDIT

The purpose of this course is to broaden students' understanding of the physical world around them. This course will look at all four branches of Earth and Space Science: Geology, Oceanography, Meteorology, and Astronomy. The course will look at the interaction of each branch and their relevance to everyday life. The focus will be on the forces that shape the planet's surface, understanding the conditions in the atmosphere, stellar bodies and their activities, and the ocean's dynamics. Students will be actively engaged in laboratory experiments, class discussions, and special projects related to the four branches of Earth Science.

ADVANCED EARTH AND SPACE SCIENCE

COURSE #418 | ODD YEAR | 1 CREDIT

This course extends the knowledge and understanding of topics covered in Earth and Space Science and covers new topics. This course will take a more in-depth look at the four areas of Earth and Space Science. Content will include examining the geological history of the Earth and the moon, Earth's minerals and rocks as resources, maps and cartography, atmospheric conditions, climatology, shaping of Earth through natural processes, water and its effects, stellar objects' position and motion, and the history of astronomy. There are many more things that will be covered throughout the year in the four areas of

Earth and Space Science. This course will have students engaged in laboratory experiments, field research, discussions, research, special projects, tests, and field trips.

Prerequisite – Minimum average of 75% or higher in Earth and Space Science (Honors or Academic)

HONORS CHEMISTRY

COURSE #405 | 7 PDS/CYCLE | 1.17 CREDIT

The focus of Honors Chemistry is the study of matter—its structure, composition, and changes. This course is strongly recommended for those students who intend to continue their education after high school in science- related majors such as engineering, nursing, medicine, dentistry, or any other science. Students who wish to be challenged in the science classroom will also benefit from this course. The subject matter of this rigorous course is taught at an accelerated pace utilizing higher-level thinking skills and practices. Students are exposed to both the theory and practical laboratory experiences of this academic discipline. Research reports and/or projects completed outside of the classroom are required. Problem-solving skills are stressed inside and outside of the classroom. Students will apply mathematical and scientific principles previously mastered in other courses to solve challenging problems. Grades are based on quizzes, tests, homework, lab reports, and research reports.

Prerequisite – To enroll in Honors Chemistry students must be enrolled in (or have previously completed) Algebra II Honors or Algebra II A. Students must have attained at least a 75% average in a previous Biology Honors course or a 93% average in an Academic-level Biology course to enroll in Honors Chemistry. Honors Chemistry students must possess a scientific calculator for their personal use inside and outside of the classroom.

CHEMISTRY

COURSE #406 | 1 CREDIT

The focus of chemistry is the study of matter—its structures, compositions, and changes. This course is recommended for students who intend to continue their education after high school. This course meets the chemistry prerequisite for post-secondary schools that offer science-related majors. The subject matter of chemistry is taught at a moderate pace, and students are exposed to both the theory and practical laboratory practices of this academic discipline. Grades are based on quizzes, tests, homework, and lab reports. Chemistry provides a sound foundation for future scientific study. This course is intended to provide students with some of the applications chemistry has in their lives. A scientific calculator will be used in this course, so students must possess a scientific calculator for their personal use inside and outside the classroom.

Prerequisite – Successful completion of Algebra I and Biology.

AP CHEMISTRY

COURSE #407 | 8 PDS/CYCLE | EVEN YEAR | | 1.33 CREDIT

This class is for juniors and seniors who will be taking the general chemistry course usually encountered during the freshmen year of college. For some students, this course will enable them (as college freshmen) to take second-level work in the chemistry sequence at an institution of higher learning or to register for courses in other academic fields where general college chemistry is a prerequisite. For other students, the AP Chemistry course fulfills a college laboratory science requirement and frees time for other courses in college.

AP Chemistry approaches the study of the fundamentals of chemistry in a rigorous, accelerated fashion. The course is designed for students who are planning careers in engineering, medicine, science education, and others whose training will require the mastery of chemical concepts and practices.

Problem-solving, laboratory skills, and the study of chemical theory will be stressed in AP Chemistry. Research reports, lab reports, projects, and independent/internet study activities are integral parts of the AP Chemistry curriculum. Students need to be able to work independently when studying and must have the self-discipline to successfully complete what is required of them.

Students enrolled in this course must take the AP exam for Chemistry which assesses knowledge of chemical concepts and laboratory experimentation and procedures. AP Chemistry is a time-intensive course. Each week, students enrolled in this course should expect to devote a good amount of time to homework and independent study of chemical theory. Additionally, students should allow additional time for completion of collaborative laboratory reports, Internet-based research/drill and practice activities and project work.

AP Chemistry is an accelerated course, and laboratory experimentation is a required portion of the class. Students are expected to attend all theory and laboratory classes. Additional time beyond the school day is often necessary to organize, set-up, and perform laboratory experimentation, usually commencing before the beginning of the school day. Other times for such laboratory work may be individually scheduled during activity periods, study halls, or after school until 3:00 PM. This course is offered in even-numbered school years only.

Prerequisite – Successful completion of Honors Chemistry (or equivalent) with a minimum grade of 85%.
Successful completion of Algebra I and Geometry and successful completion (or concurrent enrollment) in an Algebra II course. Students must obtain, complete, and submit a series of independent study assignments over the summer before the start of the school year. Assignments and accompanying texts will be provided to students before summer vacation begins. Students must possess a scientific calculator for use during and after the school day.

ACADEMIC PHYSICS

COURSE #400 | 1 CREDIT

The focus of Physics is the study of the interaction of matter and energy. This course is designed for students who are planning careers in engineering, medicine, nursing, health-related fields, meteorology, and for anyone who has an interest in science. The content of this course is taught at a medium pace. The student will be exposed to both theory and the application of Physics. Laboratory exercises are utilized to allow a thorough exploration of each topic. Topics include measurement and problem-solving, vectors, kinematics, two-dimensional motion, Newton's Laws of Motion, momentum, collisions, energy, sound, waves, and light. Grades are based on tests, lab reports, homework, and special projects. A scientific calculator will be used in this class, and students must possess such a calculator.

Prerequisite – Successful completion of Algebra I and Geometry.

AP PHYSICS 1

COURSE #403 | 7 PDS/CYCLE | 1.33 CREDIT

This course is designed for juniors and seniors who are planning careers in engineering, medicine, meteorology, geology, computer science, or anyone who has an interest in the sciences. This course introduces students to the concepts of Physics as encountered on a first-year college level. This course meets the Physics requirements for post-secondary schools that offer science-related majors.

The topics covered in this course follow the College Board's content outline for AP Physics I (Algebra based). Topics included are Measurement, Vectors, Motion in One Dimension, Projectile Motion, The Laws of Motion, Springs, Friction, and Inclined Planes, Linear Momentum and Collisions, Work and Energy, The Law of Gravity, Rotation of a Rigid Object About a Fixed Axis, Rolling Motion and Angular Momentum, Oscillatory Motion, Waves and Sound, Electrostatics and Simple Circuits. Calculus' basic ideas will be introduced in connection with physical concepts, such as acceleration, impulse, momentum, and work. The subject matter of this rigorous course is taught at an accelerated pace utilizing higher-level

thinking skills and practices. Students will be exposed to both the theory and the application of physics. Laboratory exercises are utilized to allow a thorough exploration of each topic. Research reports and projects completed outside of the classroom are required.

Prerequisite – Successful completion of Algebra I and successful completion or concurrent enrollment in Algebra II Honors.

AP PHYSICS 2

COURSE #401 | 7 PDS/CYCLE | 1.33 CREDIT

This Course is designed for students who have completed AP Physics 1 and want to continue to the next level. This course introduces students to the concepts of Physics as encountered on a first-year college level and will prepare students to take the AP Physics 2 exam.

The subject matter of this course is taught at an accelerated pace utilizing higher-level thinking skills and practices. The students will be exposed to both theory and application of Physics: Laboratory exercises are utilized to allow thorough explorations of each topic. Research reports and projects completed outside of the classroom are required. The main topics covered include the following: Fluids, thermodynamics, electric force, electric fields, circuits, magnetism, optics, and modern physics. The basic ideas of Calculus will be introduced in connection with physical concepts, such as Radioactivity and RC Circuits.

Prerequisite –Successful completion of AP Physics 1(regardless of AP exam score in a previous year).

PHYSICAL SCIENCE

COURSE #430 | 1 CREDIT

This course is designed as a third science course for those students not taking Chemistry or Physics. Physical Science is designed to provide students with a general examination of the properties of the physical world in which they live. The course is composed of two major units: Chemistry and Physics. A general survey of each is done with an emphasis on the relationship of the content to everyday life. The course is designed with a high emphasis on laboratory experiences. It is also designed for students who are not pursuing an academic sequence of courses.

This course will not adequately prepare students for future study in SVHS's Physics or Chemistry courses.

Prerequisite – Successful completion of Biology. Students enrolled in (or who have successfully completed Chemistry or Physics) are not eligible for this course.

ELECTRONICS

COURSE #428 | EVEN YEAR| 0.50 CREDIT

This course is designed for sophomores, juniors, or seniors who are looking for a second science elective. It is especially helpful for students who are planning careers in electrical engineering, electronics technology, or engineering science. The emphasis will be on lab activities which will reinforce classroom theory. Students will design, develop, and test electrical projects using electronic equipment such as the oscilloscope and digital multi meter.

Topics include static electricity, AC and DC circuits, digital electronics (including basic programming with Arduino microcontrollers), solid-state physics electromagnetic induction, magnetism, and electromagnetic wave theory.

Grades are based on tests, quizzes, homework, lab reports, and quarterly electronics projects.

Prerequisite – Successful completion of or concurrent enrollment in Academic Physics.

HONORS BIOLOGY

COURSE #410 | 1 CREDIT

This course is designed to provide students with an examination of the nature of life. The course examines the biological fields of cytology, molecular biochemistry, and chemical bonding as it relates to the four main groups of organic macromolecules of life including: carbohydrates, lipids, proteins, and nucleic acids. The course includes an examination of the biochemical pathways of photosynthesis and cellular respiration. Cell parts and the cell cycle are also covered. The central dogma of biology, DNA, and protein synthesis will also be covered in detail. Mendelian genetics and fundamental laws of heredity are examined. Laboratory exercises are used to provide meaningful experiences. Students will be evaluated using written assessments, quizzes, laboratory reports, homework assignments, classroom assignments. This class moves at a faster pace than Academic Biology, and the assignments are much more in depth.

Prerequisite - Students currently enrolled in Earth Science must be recommended by their teacher. It is recommended that students have a 90% or higher in Earth Science and 90% or higher in an honors level math class.

ACADEMIC BIOLOGY

COURSE #411 | 1 CREDIT

This course is designed to provide students with an examination of the nature of life. This course examines the biological fields of cytology, molecular biochemistry, and chemical bonding as it relates to the four main groups of organic macromolecules of life including: carbohydrates, lipids, proteins, and nucleic acids. The course includes an examination of the biochemical pathways of photosynthesis and cellular respiration. Cell parts and the cell cycle are also covered. The central dogma of biology, DNA, and protein synthesis will also be covered in detail. Mendelian genetics and fundamental laws of heredity are examined. Laboratory exercises are used to provide meaningful experiences. Students will be evaluated using written assessments, quizzes, laboratory reports, homework assignments and classroom assignments.

AP BIOLOGY

COURSE #409| 8 PDS/CYCLE | ODD YEAR | 1.33 CREDIT

This class is for juniors and seniors who want to pursue a career in biology, medicine, or any major where you will be expected to take the Introductory Biology class for science majors in college. The AP Biology course is designed to be equivalent to the three semesters of introductory biology courses taken by college biology majors. For this reason, the textbook, range, and depth of topics covered, laboratory work, and the time and effort required will be equivalent to those expected from college biology majors. The main goal of the course is to help students develop an understanding of science as a continuous, evolving process. To achieve this goal, emphasis will be placed on viewing science as more than an accumulation of facts. Personal experience in scientific inquiry, recognizing unifying themes across the major topics in biology, and an application of biological knowledge and critical thinking skill towards environmental and scientific concerns are all goals of this course. The four big ideas of biology to be covered are

The process of evolution drives the diversity and unity of life.

Biological systems utilize free energy and molecular building blocks to grow, to reproduce, and to maintain dynamic homeostasis.

Living systems store, retrieve, transmit, and respond to information essential to life processes.

Biological systems interact and these systems and their interactions possess complex properties.

The course culminates in the taking of the AP Biology exam in May. This course is offered in odd numbered school years only.

Prerequisites – Successful completion of 1 year of Biology and 1 year of Chemistry. Strong

mathematical and language skills are necessary to succeed in this course. A summer assignment is required for this course.

HUMAN ANATOMY AND PHYSIOLOGY

COURSE #413| 7 PDS/CYCLE | 1.17 CREDIT| GRADES 11-12

This course is designed as a second science class for a junior or as a science elective for a senior, especially for those students anticipating careers in imaging technology, nursing, medicine, physical therapy, or kinesiology. The course will consist primarily of human anatomy and physiology. A systemic approach to anatomy and physiology will be used to study the human body. The course will begin with an introduction to anatomy and physiology, and a review of cytology and histology. The following systems of the body will be studied: integumentary, skeletal, muscular, and nervous with the special senses. The requirements of the course will include: a research paper, several projects, a survey of current issues in human physiology, several oral reports, and several animal dissections.

Prerequisite – Successful completion of Academic Biology with a minimum grade of 85% or Honors Biology with a minimum grade of 75% and successful completion of a Chemistry course or concurrent enrollment in a Chemistry course.

HUMAN ANATOMY AND PHYSIOLOGY 2

COURSE#414 |1.17 CREDIT| GRADE 12

This course is designed as an elective course for a senior who has completed Human Anatomy and Physiology, especially those students anticipating careers in imaging technology, nursing, medicine, physical therapy, or kinesiology. The course will consist primarily of human anatomy and physiology. A systemic approach to anatomy and physiology will be utilized for the study of the human body. The course will cover the endocrine system, lymphatic system, immune system, respiratory system, digestive system, urinary system, reproductive system, human development and birth, and medical professions. The requirements of the course will include research papers, projects, oral reports, and animal dissections including the sheep kidney, cat, and fetal pig.

Prerequisite: Successful completion of Human Anatomy and Physiology, Chemistry, and Academic/Honors Biology.

ENVIRONMENTAL SCIENCE

COURSE #429 | 1.17 CREDIT| GRADES 11-12

This class is for juniors looking for a second science course or as a senior science elective. This course's purpose is to expose students to the study of the environmental complexities and pressing environmental issues about which society is concerned. This course provides background in understanding natural laws, the workings of natural systems, and how environmental damage is contrary to natural laws. Students will also explore how to solve current environmental problems and weigh the pros and cons of their solutions. This is a dual-enrollment class and is weighted; therefore, students taking this class will be expected to do college-level work.

Prerequisite – Successful completion of Biology Honors or Academic with a minimum average of 75%.

MICROBIOLOGY

COURSE # 427 | 1 CREDIT| GRADES 11-12

This class is for sophomores or juniors as a second science course or as a senior science elective. Microbiology is designed to provide students with an academic exam of the microbiological world around them. The course is designed to provide microbiological background to students planning to attend college and major in microbiology, medical technology, or a medical field or students who have a strong interest in a deeper investigation of microbiology. Practical lab exercises will be used extensively to provide the basic laboratory skills in a realistic learning atmosphere. Students will be evaluated using written examinations, lab reports, homework assignments, classroom exercises, lab practical quarter examinations and class participation.

Prerequisite – Successful completion of Biology and concurrently enrolled or successful completion of Chemistry.

NATURAL SCIENCE

COURSE #425 | 1 CREDIT| GRADES 10-12

This class is for sophomores and juniors as a second science or as a senior science elective. Natural Science is designed to provide students with an opportunity to increase their awareness and knowledge of the natural world around them. The course will concentrate on the natural environment of northeastern United States, Pennsylvania, and Berks County. Developing naturalists will be required to make specific identification of common species based on their knowledge of field marks, life histories, and the use of taxonomic keys. The course relies heavily on visual and auditory identification of species while being conscious of the seasonal changes occurring outside the classroom. Students will be evaluated utilizing written examinations, species identifications, homework assignments, classroom exercises, and organism-based projects.

Required collections will include Leaves-Fall; Wildflowers-Fall/Spring; Insects-Fall/Spring.

Main topics covered:

- Introduction to Natural Science • Proper use of field optics • Characteristics of living vs. non-living things
- Deciduous trees and evergreens of PA • Taxonomic review – Use of Taxonomic keys • PA ducks, geese, swan
- Notable naturalists • Flower anatomy and physiology • Animal behavior and social structures
- Fall and Spring wildflowers • Mammals of PA • Edible and medicinal plants • PA raptors, Hawk Mountain Sanctuary
- Dry and fleshy fruit ID • Winter feeder birds; species song ID

Prerequisite – Successful completion of Biology.

SOCIAL STUDIES

It is the mission of the Schuylkill Valley Social Studies Department to encourage students to become knowledgeable, active, and engaged citizens through well-rounded course offerings in all areas of the social sciences. Student development and responsibility is encouraged through classroom activities and lessons that stress student engagement and active problem-solving.

It is the belief of the Schuylkill Valley Social Studies Department that every student should develop the skills and knowledge necessary to enhance their communities. All students must earn four credits of Social Studies coursework throughout their high school career. Additionally, all students must take one course from each of the following areas throughout their high school career: Government, American History, and World History.

Required Courses:

All students must take one course from each of the following areas throughout their high school career: Government, American History, and World History. ***Students in the class of 2026 may substitute any AP course offering for one of the course requirements stated above.***

Grade	Required Course	Credits
Grade 9	Civics (A) Civics (H) AP US Government*	1
Grade 10	20th Century US History (A) 20th Century US History (H) AP US History*	1
Grade 11	World Cultures (A) World Cultures (H) AP World History*	1
Grade 12	Government and Economics AP Psychology*	1

*AP courses can be taken in a different sequence depending on student schedule and teacher recommendation. The AP course sequence listed above is the suggested order of coursework.

AP US Government: grades 9-12
AP US History: grades 10-12
AP World History: grades 10-12
AP Psychology: grades 10-12

Electives:

Electives do not count toward the Social Studies credit requirement.

Electives	Grades	Credits
Anthropology	10-12	.5
Law	10-12	.5
Psychology	10-12	.5
Sociology	10-12	.5

AP U.S. HISTORY

COURSE #209 | 1 CREDIT | GRADES 10-12

This course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the ideas, events, and personalities in United States history. It prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students will assess historical material (their relevance to a given problem, their reliability, and their importance) then weigh the evidence and interpretations presented in historical scholarship. This course is designed to develop the skills necessary to write clearly and persuasively in an essay format. Students taking this course are required to take the AP exam. AP U.S. History is offered every year, but the course may not run due to low enrollment.

Note: Students who successfully complete AP U.S. History in 10th grade will be exempted from the required U.S. History 10 course. ***All students will still need to take four credits of Social Studies throughout their high school career to graduate. ***

Prerequisite – Students must have attained at least an 90% average in a previous Honors Social Studies course. Students at the academic level require a teacher recommendation.

AP U.S. GOVERNMENT AND POLITICS

COURSE #208 | 1 CREDIT | GRADES 9-12

AP U.S. Government provides a critical perspective and comparative analysis of government and politics in the United States. Students will examine the constitutional underpinnings of American democracy, political beliefs, and behaviors of individuals, political parties and interest groups, the branches of government, the Presidency, the bureaucracy, and civil rights and liberties. Readings include selections from a college-level text, supplementary materials from primary sources, and the writings of noted political scientists, writers, and historians.

Students taking this course are required to take the AP exam. AP U.S. Government is offered every year, but the course may not run due to low enrollment.

Note: Students who successfully complete AP U.S. Government in grade 9-12 will be exempted from the senior Government and Economics required course. **All students will still need to take four credits of Social Studies throughout their high school career to graduate. ***

Prerequisite – Students must have attained at least an 90% average in a previous Honors Social Studies course. Incoming freshmen must have their 8th grade teacher's recommendation for this course. Students at the academic level require a teacher recommendation.

AP WORLD HISTORY

COURSE #207 | 1 CREDIT | GRADES 10-12

This course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the ideas, events, and personalities in world history. The course prepares students for intermediate and advanced college courses. Students will use historical data, readings, and materials to assess historical trends and movements in World History as well as critically analyze historical information through essays and collaborative projects. The scope of the course covers all human history with special focus on major developments and trends from all areas of the world. Students taking this course are required to take the AP exam. AP World History is offered every year, but the course may not run due to low enrollment.

Prerequisite – Students must have attained at least an 90% average in a previous Honors Social Studies course. Students at the academic level require a teacher recommendation.

AP PSYCHOLOGY

COURSE #213 | 1 CREDIT | GRADES 9-12

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. There are five content domains in AP Psychology which include: Methods, Bio psychological, Cognitive, Developmental, and Sociocultural.

Students also learn about the ethics and methods psychologists use in their science and practice. Course time is devoted to learning successful strategies for taking the AP Psychology Exam. **Students taking this course are required to take the AP exam. AP Psychology is offered every year, but the course may not run due to low enrollment.

Prerequisite – Students must have attained at least an 90% average in a previous Honors Social Studies course. Students at the academic level require a teacher recommendation.

CIVICS AND GOVERNMENT 9 HONORS WEIGHTED

COURSE #220 | 1 CREDIT

Students in this class will study the foundations of American democracy and participation in a democratic society. Topics include the function and importance of government, opportunities, and responsibilities of citizenship, the role of political parties, public policy, news and media literacy, voting and elections, and the legal system. Skill development centers on critical analysis of primary and secondary sources, effective writing and problem solving.

Prerequisite- Students must have attained at least an 85% average in a previous social studies course.

CIVICS AND GOVERNMENT 9 ACADEMIC

COURSE # 221 |1 CREDIT

Students in this class will study the foundations of American democracy and participation in a democratic society. Topics include the function and importance of government, opportunities and responsibilities of citizenship, the role of political parties, public policy, news and media literacy, voting and elections, and the legal system.

20TH CENTURY U.S. HISTORY 10 HONORS

COURSE #215 | 1 CREDIT

All sophomores must take 20th Century U.S. History (except those who opt for AP U.S. History). Students will participate in an in-depth study of the social, economic, political, and diplomatic history of the modern United States. Emphasis is on events that have had a lasting impact on our country. Included are: The Progressive Era, America as an imperial power, the two world wars, the Great Depression and New Deal, the Cold War, social change in the fifties and sixties, Civil Rights, the Vietnam Era, The Reagan Revolution and modern America, and the international role of the United States. Skill development centers on critical analysis of primary sources, effective writing, and problem-solving.

Prerequisite – Students must have attained at least an 85% average in a previous Social Studies Course.

20TH CENTURY U.S. HISTORY 10 ACADEMIC

COURSE #216 | 1 CREDIT

All sophomores must take 20th Century U.S. History (except those who opt for AP U.S. History). Students will study the major events and personalities of the 20th century in the United States and will examine the following periods: The Progressive Era, America's emergence as a global power, the two world wars, the Great Depression and New Deal, the Cold War, social changes of the fifties and sixties, Civil Rights, the Vietnam Era, the Reagan Revolution, modern America, and the international role of the United States.

WORLD CULTURES 11 HONORS

COURSE #210 | 1 CREDIT

Students will examine in-depth the religious, cultural, historical, geographic and political forces that form our modern world. The following areas will be explored: Russian history and culture, China and Southeast Asia, the Indian subcontinent, Latin America, The Middle East, and Sub-Saharan Africa. Emphasis is placed on the inter- relationship of history, geography, and culture. Research and speaking skills are utilized in the discussion of contemporary issues. Selected global issues and their impact on the world's regions will be investigated.

Prerequisite – Students must have attained at least an 85% average in a previous Social Studies course.

WORLD CULTURES 11 ACADEMIC

COURSE #211 | 1 CREDIT

Students will complete an overview of the religious, cultural, historical, geographic and political forces that form our modern world. The following areas will be explored: Russian history and culture, China and Southeast Asia, the Indian subcontinent, Latin America, the Middle East, and Sub-Saharan Africa. Emphasis is placed on the inter- relationship of history, geography, and culture. Research and speaking skills are utilized in the discussion of contemporary issues. Selected global issues and their impact on the world's regions will be investigated.

AMERICAN GOVERNMENT AND ECONOMICS

COURSE #214 | 1 CREDIT | GRADE 12

All seniors must take American Government except for those enrolled in an AP Social Studies course. American Government is a course designed to allow students to evaluate the influence of democratic principles and policies on the United States. The Constitutional principles and our system of federalism will be examined. Responsibilities and rights of citizens in our democratic system will be emphasized including the importance of voting. Students will evaluate the effect of public policy decisions and their impact on domestic and international relations. The objective of Economics is to acquaint students with fundamentals of micro and macroeconomic theory. Basic economic concepts and the economist's way of thinking will be studied. Concepts include supply and demand, competition, economic growth, the role of government, and international economics. Students will participate in simulation activities and a Stock Market game.

The Civics exam, as required by PA Act 35 will be administered as part of this course.

Social Studies Electives

Please note: these electives DO NOT fulfill the 4 credits of Social Studies requirement! The following electives can be taken by any students in grades 10, 11 and 12.

ANTHROPOLOGY (GRADES 10-12)

COURSE #205 | 0.50 CREDIT

This course will introduce the field of anthropology to students by using formal anthropological perspectives and the comparative method. Distinct highlights of the course will include discussions and research into human evolution, human diversity and adaptation, the characteristics of culture, social identity, gender roles, and major social institutions, such as marriage, religion, and politics.

SOCIOLOGY

COURSE #202 | 0.50 CREDIT | GRADES 10-12

This course will focus on the interaction between the individual, groups, and society, while introducing students to the methods and theories used by sociologists to explore the nature of society. Selected topics may include culture, socialization, social movements, and societal change, society and social organization, deviance and social control, social institutions, race and ethnicity and social stratification.

PSYCHOLOGY

COURSE #201 | 0.50 CREDIT

Psychology is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. An emphasis is placed on practical, real-world application of psychological concepts and processes including demonstrations and experimentation. This course cannot be taken if the student as already completed AP Psychology.

LAW

COURSE #200 | 0.50 CREDIT | GRADES 10-12

This course focuses on an introduction to law and the American legal system. The civil and criminal law in the United States will be addressed in addition to the juvenile justice system. Additionally, students will explore the criminal justice system and the enumerated rights of individuals in the United States Constitution.

TECHNOLOGY & ENGINEERING

It is the mission of the Technology and Engineering Education Department at Schuylkill Valley High School to provide opportunities for all students in the application of tools, materials, processes, and systems related to Technology and Engineering Education / STEM - Science, Technology, Engineering, and Mathematics. Students will be required to apply academic concepts through practical hands-on applications, while designing, creating, utilizing, evaluating, and modifying technological systems to solve problems.

PHOTOGRAPHY 1

COURSE #502 | 0.50 CREDIT | GRADES 9-12

Photography 1 is an introduction to photography using digital cameras and image editing software. This course includes digital color and black-and-whitephotographs using photo and large format printers, photographic composition and technique, digital editing, print enlargement and processing, camera types and rules of photography. Photography Assignments and Photoshop Assignments will be completed using school issued laptops or classroom computers on Adobe Creative Cloud (or a similar software). A portfolio of design challenges and photography assignments will be developed. Cameras will be provided for all students. Students will sign out district-owned cameras as needed and assume responsibility for the safe return of the equipment. Cameras will be available for student use after the CAMERA AGREEMENT FORM is returned. Lab fees will be assessed in this course.

PHOTOGRAPHY 2

COURSE #503 | 0.50 CREDIT | GRADES 9-12

Photography 2 is a digital photography course designed to provide students the opportunity to increase their knowledge of photography as well as improve their skills in photographic processes, composition, and techniques. Areas covered will expand on concepts in Photography 1. Students are expected to be able to recall this information or do the necessary research to brush up on these concepts. Advance Photography Assignments, real world projects, and Photoshop Assignments will be completed using Adobe Creative Cloud (or similar software) on school issued laptops or classroom computers in the lab. The working methods of the professional photographer will be explored in the production of a portfolio for commercial and fine art applications. Cameras will be provided for all students. Students will sign out district- owned SLR digital cameras as needed and assume responsibility for the safe return of the equipment. Cameras will be available for student use after the CAMERA AGREEMENT FORM is returned. Lab fees will be assessed in this course.

Prerequisite: Successful completion of Photography 1. It is recommended that a grade of 75% or better was earned in Photography 1 for successful completing of Photography 2.

PHOTOGRAPHY 3

COURSE #519 | 0.50 CREDIT | GRADES 11-12

Photography 3 is an advanced digital photography course designed to provide students the opportunity to dive deep into the photographic process and improve their skills in composition and techniques. Areas covered will expand on concepts in Photography 2. Student are expected to be able to recall this information or do the necessary research to brush up on these concepts. Advance Photography Assignments, real world projects, and studio techniques that may include (but are not limited to)

automotive, still life and product photography will be introduced. Design elements and layout techniques will incorporate students' photography into projects for clients. Photoshop Assignments will be completed using Adobe Creative Cloud on school issued laptops or classroom computers in the lab. Cameras will be provided for all students. Students may sign out district-owened cameras as needed and assume responsibility for the safe return of the equipment. Cameras will be available for student use after the CAMERA AGREEMENT FORM is returned. Lab fees will be assessed in this course.

Prerequisite: Successful completion of Photography 2. It is recommended that a grade of 75% or better was earned in Photography 2 for successful completion of Photography 3

INDEPENDENT STUDY-PHOTOGRAPHY

COURSE #509 |.50/1.0 CREDITS | GRADES 11-12

FLEXIBLE SCHEDULING

Photography Independent Study is a photography course designed to provide students the opportunity to develop their own learning activities, deliverables, assessments, projects, portfolio, school service projects, and final evaluation. Courses of study will be developed and approved with the instructor prior to the start of lab activities. It is recommended that students provide their own high end SLR digital camera and be interested in a career in photography, multimedia, photojournalism, or digital media. Lab fees will be assessed in this course.

Prerequisite – Successful completion of Photography 3. It is recommended that a grade of 75% or better was earned in Photography 3 for successful completion of Indepdent Photography.

STEM 1

COURSE #513 | 0.50 CREDIT | GRADES 9-12

STEM 1 is an integrated hands-on, project-oriented, interdisciplinary introduction course in design, engineering, robotics, materials, prototyping and research for all students. The class and lab activities focus on Science, Technology, Engineering, Math, Communication, Critical Thinking, Creativity, and Collaboration. Design Challenges in the areas of Computer Aided Design, 3D Modeling, Prototyping, Aerospace Engineering, Material Technology, Structural Engineering, and Communication Technology will utilize project-based learning activities in STEM. Lab fees will be assessed in this course.

STEM 2

COURSE #515 | 0.50 CREDIT | GRADES 9-12

STEM 2 is an integrated hands-on, project-oriented, interdisciplinary introduction course to design, engineering, robotics, materials, prototyping and research for all students. The level 2 course is a follow-up to the STEM 1 course. The class and lab activities focus on Science, Technology, Engineering, Math, Communication, Critical Thinking, Creativity, and Collaboration. Advanced Design Challenges in the areas of Computer Aided Design, 3D Modeling, Prototyping, Aerospace Engineering, Material Technology, Structural Engineering, and Communication Technology will utilize project-based learning activities in STEM. Lab fees will be assessed in this course.

Prerequisite – Successful completion of STEM 1. It is recommended that a grade of 75% or better was earned in STEM 1 for successful completin of STEM 2.

CAD 1 ENGINEERING DRAWING/CAD

COURSE #507 | 0.50 CREDIT | GRADES 9-12

CAD 1 will provide students with an introduction to the area of mechanical drawing and 2D computer aided drawing. The course covers basic drafting equipment, its proper use, as well as the types of drawings used in industry today. Skills will be developed in sketching, lettering, multi-view projection, dimensioning, sectioning, pictorial views, and developments. Students will be introduced to computer aided drawing (CAD) using AutoCAD 2D software. After a brief review of the comparison of traditional mechanical vs. CAD drawing, students will draw and print a series of projects using CAD software in conjunction with a large format inkjet printer. Additional units on layering, editing, and filing will be covered, along with an introduction to 3D modeling and 3D printing. Students should elect this course if planning to pursue a career in Engineering, Drafting, Design, or other STEM fields. Lab fees will be assessed in this course.

Prerequisite – Must be enrolled in Geometry or must have successfully completed Geometry.

CAD 2-3D COMPUTER MODELING USING SOLIDWORKS

COURSE #516 | 0.50 CREDIT | GRADES 10-12

CAD 2 focuses on the creation of 3D models using SolidWorks. Students will learn about concepts of parametric modeling, Boolean functions, creating features, adding dimensions, learn the differences between feature dimensions and reference dimensions, and much more. This course will prepare students for future 3D courses, materials courses, and to take the SolidWorks Certification exam. Students should choose to take this course if planning to pursue a career in Engineering, Drafting, Design, or other STEM-related fields. Lab fees will be assessed in this course.

Prerequisite - Successful completion of CAD 1-Engineering Drawing/CAD or Corequisite – CAD 1Engineering Drawing/CAD.

MATERIALS TECHNOLOGY 1

COURSE #504 | 0.50 CREDIT | GRADES 9-12)

This course introduces students to materials and the processes used to transform them from raw materials into completed projects. Students will learn the basics of tree structure, harvesting, and lumbering. Students will work toward the completion of a finished project learning while learning the concepts of squaring a board, basic joinery construction, abrasives, sanding, finishes, and finishing. An emphasis on proper and safe machine tool use will be emphasized. After safety instruction, a required safety test will be given for students to use machinery. Lab fees will be assessed in this course

MATERIALS TECHNOLOGY 2

COURSE #518 | 0.50 CREDIT | GRADES 10-12

This course introduces students to design and processes used in the construction of a project. After designing and planning a project, students will have the opportunity to utilize wood and related materials to bring the design to life. Students will learn the correct use of hand and portable power tools, as well as woodworking machines during the year. Students will also be introduced to 3D Modeling and computer aided manufacturing machines using Aspire software and a computer numerically controlled machine. Safety is stressed and after safety instruction a required safety test will be given for students to use machines. Lab fees will be assessed in this course.

Prerequisite - Successful completion of Materials Technology 1.

ADVANCED WOODWORKING

COURSE #506 | 1 CREDIT | GRADES 11-12

This course is for serious wood working students and is intended to push skills sets in both wood working and furniture design. Students will design a project in 3D modeling software that adheres to the design criteria. Students will be introduced to hand cut and machine cut dovetails. Advanced finishing techniques will be discussed, and ad advanced finishing technique must be incorporated into their finished design. Students will complete a detailed portfolio outlining the entire process from design iteration to completed project. An emphasis on proper and safe machine tool usage will be emphasized. After safety instruction, a required safety test will be given in order for students to use machinery. Lab fees will be assessed in this course.

Prerequisite - Successful completion of Materials Technology 3.

COMMUNICATIONS TECHNOLOGY 1

COURSE # 500 | .50 CREDIT |GRADES 9-12

Communication Technology I is a hands-on, project -oriented introductory course to Communication and Digital Media Technology for all students. The class and lab activities focus on historical, current, and emerging Communication Technology, critical thinking, creativity, and collaboration. Design challenges will be used to complete project-based learning activities. Students will work on their own design portfolios and school service projects using Mac computers, Adobe Creative Cloud, digital cameras, printing equipment, internet, and online media outlets. Lab fees will be assessed in this course.

COMMUNICATIONS TECHNOLOGY 2

COURSE # 501 | .50 CREDIT |GRADES 10-12

Communication Technology 2 is a hands-on, project -oriented advanced course in Communication and Digital Media Technology. The level 2 course is a follow-up to Communication Technology 1. The class and lab activities focus on current and emerging Communication Technology, Critical Thinking, Creativity, and Collaboration. Advance Design Challenges will be used to complete project-based learning activities. Students will work on their own design portfolios and school service projects using Mac computers, Adobe Creative Cloud, Digital Cameras, Printing Equipment, Internet, and Online media outlets. Lab fees will be assessed in this course.

Prerequisite - Successful completion of Communication Technology 1.

COMMUNICATION TECHNOLOGY 3

COURSE #514 |1 CREDIT |ODD YEAR| GRADES 11, 12

Communication Technology 3 is a hands-on, project-oriented advanced course in Communication and Digital Media Technology. The level 3 course is a follow-up to Communication Technology 2. Advance Design Challenges selected in Print Media, Digital Media, Multimedia, and Mass Media will be used to complete project-based learning activities each quarter. Students in this course will be responsible for completing various high school printing projects as partial fulfillment for the course. Students will work on their own design portfolios and school service projects using new Mac computers. Adobe Creative Cloud, Digital Cameras, Printing Equipment, Internet, and Online media outlets. Lab fees will be assessed in this course.

Prerequisite- Successful completion of Communication Technology 1 and 2.

ARCHITECTURAL DRAWING AND DESIGN

COURSE #510 |.50 CREDIT| EVEN YEAR| GRADES 9-12

Architectural Drawing and Design is an academic STEM-based computer aided design course that will utilize online resources, classroom materials, and computer software to design and create 3D interactive CAD drawings. Students will complete a series of research assignments, lessons, and activities to develop fundamental knowledge and skills in architectural design. Training tutorials are required prior to completing design challenges. A single-family residence and a complete set of working drawings including a plot plan, foundation plan, floor plan(s), kitchen plan, electrical plan, elevations, wall sections, pictorial view, and all necessary construction details will be a capstone project-based learning activity. Lab fees will be assessed in this course.

WORLD LANGUAGE

A person's intellectual, social, cultural, and career horizons will be expanded through world language study. Students will better understand their own language(s) as well as those of others through language and culture study. Students who study a second language will be more marketable in their chosen careers. The more years of practice—and the harder you work at it—the greater the benefits and rewards.

We believe that the World Language Department at Schuylkill Valley encourages and motivates students to develop competency in the world language they aspire to learn. Students shall strive to achieve a balance between accuracy in communication, grammar structures, oral proficiency, active performance activities, and cultural awareness. A comprehensive program of listening, speaking, reading, and writing will assure the foundation of the world language. The process of learning the language continually evolves from simple utterances, through the forming of sentences, to the accurate use of all the phases of communication.

GERMAN I

COURSE #655 | 1 CREDIT | GRADES 9-12

At this elementary level of foreign language study, students learn a new sound system by listening to and imitating the spoken word. The vocabulary learned evolves from the person to the surrounding classroom and daily living circumstances. By the end of the school year, students will be able to use and manipulate the present tense. After an initial period of listening, students will be expected to participate orally in the language thus exhibiting their learning of the material. Grammatical structures and the more formal form of the written language will be introduced.

GERMAN II

COURSE #656 | 1 CREDIT |GRADES 10-12

This course will continue to develop vocabulary and structure through oral use of the language. Students will be encouraged to speak in the language about everyday situations. By the end of the year, students will be using and manipulating different verb tenses. Grammatical structures and the more formal form of the written language will be strongly emphasized. Formal reading and writing skills are further developed.

Prerequisite – Successful completion of Level I with at least a 75% average or teacher approval

HONORS SPANISH I

COURSE #667 | 1 CREDIT | GRADES 9-12

The principal objectives of this course include practicing learned oral language skills in structured conversation, acquiring a strong foundation in Spanish language vocabulary and grammar, and becoming familiar with the varied aspects of Hispanic culture. The vocabulary learned evolves from the person to the surrounding classroom and daily living circumstances. By the end of the school year, students will be able to use and manipulate several verb tenses.

Students will be expected to participate orally in the language thus exhibiting their learning of the material. This class will also focus on developing the languages skills of listening, speaking, reading, and writing. In addition to the Spanish I curriculum, students will be expected to learn additional vocabulary and grammar. Novels will also be read. Students will cover units 1–8 in the textbook as of press time.

ACADEMIC SPANISH I

COURSE #660 | 1 CREDIT |GRADES 9-12

The principal objectives of this course include practicing learned oral language skills in structured conversation, acquiring a strong foundation in Spanish language vocabulary and grammar, and becoming familiar with the varied aspects of Hispanic culture. The vocabulary learned evolves from the person to the surrounding classroom and daily living circumstances. By the end of the school year, students will be able to use and manipulate several verb tenses. Students will be expected to participate orally in the language thus exhibiting their learning of the material.
This class will also focus on developing the languages skills of listening, speaking, reading, and writing. Students will cover units 1–6 in the textbook as of press time.

HONORS SPANISH II

COURSE #668 | 1 CREDIT | GRADES 10-12

This course continues the development of proficiency in the basic language skills of listening, speaking, reading, and writing. The second level course builds on the language and grammar that was taught in the first year. Students will converse in the language about everyday situations. Vocabulary and grammatical structures, as well as the more formal form of the written language, will be strongly emphasized. Formal reading and writing skills are further developed. Students will continue to study Hispanic culture. In addition to the Spanish II curriculum, students will be expected to learn additional vocabulary and grammar. Novels will also be read. Students will cover units 1–8 in the textbook as of press time.

Prerequisite – Successful completion of Honors Level I with at least a 75% average or teacher approval or successful completion of Academic Spanish I with at least an average of 88% or teacher approval.

ACADEMIC SPANISH II

COURSE #661 | 1 CREDIT | GRADES 10-12

This course continues the development of proficiency in the basic language skills of listening, speaking, reading, and writing. The second level course builds on the language and grammar that was taught in the first year. Students will converse in the language about everyday situations. Vocabulary and grammatical structures, as well as the more formal form of the written language, will be strongly emphasized. Formal reading and writing skills are further developed. Students will continue to study Hispanic culture. Students will cover units 1 – 6 in the textbook as of press time.

Prerequisite – Successful completion of Level I with at least a 75% average or teacher approval.

SPANISH III/GERMAN III

COURSE #662| COURSE #657 | 1 CREDIT | GRADES 11-12

This course is designed to enable students to further develop their language skills. At this level, students will learn more complex vocabulary and grammatical structures. Serious reading will be introduced in the target language through poetry, fairy tales, drama, and short stories. Emphasis will be given to the oral proficiency of the target language. Writing practice will take the form of journals, compositions, and reports. The history and cultural contributions of the target countries will be studied. Spanish III and German III are weighted courses. Students enrolled in Spanish III may elect to take this as a dual enrollment course.

Prerequisite – Successful completion of Level II with at least a 75% average or teacher approval.

SPANISH IV/GERMAN IV

COURSE #663 | COURSE 658 | 1 CREDIT | GRADE 12

At this level, the students will formally review the grammar and sentence structure of the language. Rules and special grammar points will be taught. Serious reading will be introduced from primary sources. The oral skills are now used in the discussion of new material. This level emphasizes the cultural contributions of the target countries in our Western Civilization. Greater emphasis will be placed on writing in the target language. Spanish IV and German IV are weighted courses. Students enrolled in Spanish IV may elect to take this as a dual enrollment course.

Prerequisite – Successful completion of Level III with at least 75% average or teacher approval.

BERKS CAREER & TECHNOLOGY CENTER

The Berks Career and Technology Center (BCTC) offers students the opportunity to pursue specific career and technical training programs while they are still attending high school. BCTC offers career programs at their East and West locations.

Most programs take three years to complete; therefore, these courses should begin in the 10th grade. An application process is required by BCTC. Interested students must apply through the Schuylkill Valley Counseling office by Thanksgiving break of their freshman year. This affords students the best chance of being accepted into their chosen program. Students may apply to BCTC anytime and will be placed on a space-available basis.

Students accepted at BCTC will attend Schuylkill Valley for a half-day and BCTC the other half. Visit the BCTC website for more information. The list of training programs available appears on the following pages.

Berks Career & Technology Center

OUR MISSION is to prepare all students for successful careers and higher education through a highly acclaimed, integrated academic and technical education experience. BCTC is a premier career & technical education center with state-of-the-art learning labs. Teachers are experienced professionals with practical experience. Programs are reviewed and updated annually by local business and industry advisors.

Why BCTC? BCTC prepares YOU for:

Two- or four-year college • Technical or trade school • Apprenticeship programs • Military service
Direct entry into the workforce

Berks Career & Technology Center consists of two campuses:

East Campus | 3307 Friedensburg Road | Oley, PA 19547 | 610-987-6201
West Campus| 1057 County Road | Leesport, PA 19533 | 610-374-4073

Visit us online at www.berkscareer.com

Seven Career Pathways
Thirty-Eight Career and Technical Education Programs
Five Technical Academics with Reading Area Community College

BUSINESS & INFORMATION TECHNOLOGY

- Business Management & Entrepreneurship(W)
- Computer Systems Networking & Security (E)
- IT Programming (W)

COMMUNICATIONS

- Advertising Art & Design Technology (W)
- Video & Media Content Production (W)

CONSTRUCTION

- Building Construction Occupations (E)
- Cabinetry & Wood Technology (E)
- Carpentry (E)
- Electrical Occupations (B)
- Heavy Equipment Operations (E)
- Horticulture (E)
- HVAC / Refrigeration (E)
- Masonry (E)
- Painting & Decorating (E)
- Plumbing & Heating (E)

ENGINEERING & MANUFACTURING TECHNOLOGY

- Drafting Design Technology (W)
- Engineering Technology Career Pathways
- *Mechatronics Engineering Technology (W)
- Robotics & Automation Technology (W) Precision/Computerized Machining Technology (W)
- Welding Technology (W)

HEALTHCARE

- Dental Occupations (E)
- *Health Occupations (W)
- Medical Health Professions (W)(*SENIORS ONLY)
- Medical Information Technology (E)
- Sports Medicine & Rehabilitative Therapy (E)

SERVICES

- Cosmetology (B)
- Culinary Arts (B)
- Early Childhood Education (B)
- Horticulture (E)
- Protective Services (E)
- Homeland Security • Law Enforcement Service
- Occupations (E)

TRANSPORTATION

- Automotive Collision Repair Technology (B)
- Automotive Technology (B)
- Diesel Technology (E)
- Heavy Equipment Technology (E)
- Recreational & Power Equipment Technology (W)

Note: (B) indicates the program is offered at both Campuses.

(E) indicates the program is offered only at the East Campus in Oley.

(W) indicates the program is offered only at the West Campus in Leesport.

*Technical Academy Associate Degree Program with Reading Area Community College (RACC).

RACC articulation with Bloomsburg University BAS degree in Technical Leadership.