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9<sup>th</sup> - 12<sup>th</sup> GRADE ACADEMIC HANDBOOK

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**Steel Valley Senior High School**

2017 - 2018

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## ABOUT THIS HANDBOOK

The material contained in this handbook has been prepared to inform parents and students of the offerings at Steel Valley High School. Parents are urged to consult with principals and counselors concerning any point that is not made clear. Classes offered and credit amounts may be modified once a master schedule and daily period schedule have been developed.

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## **DISCLAIMER**

Most course selections listed in the handbook meet once per day, five days per week unless specifically noted otherwise. However, the school district reserves the right to add or remove courses as needed. The district also has the ability to reduce or extend the number of periods per week / year during the master scheduling process that may differ from the course description.

## **ACCREDITATION**

The high school program provided for grades 9 through 12 has been approved by the Pennsylvania Department of Education. Steel Valley High School is accredited by the Middle States Association of Colleges and Secondary Schools.

### **BOARD OF SCHOOL DIRECTORS**

COLETTE YOUNGBLOOD, *President*

COYLEEN STEELE, *Vice President*

SUSAN BALLAS

JAMES BULGER

DAVID COLASANTE

THOMAS OLSON

DANIEL ROJTAS

MICHAEL TERRICK

MARY YUHAS

### **CENTRAL OFFICE**

EDWARD WEHRER, *Superintendent*

EDWARD COLEBANK, *Dir. of Academics, Info, & Tech*

DIANA BORGES, *Dir. of Pupil Personnel/Special Services*

### **SENIOR HIGH**

LISA DUVAL, *Principal*

JOHN STROM, *Assistant Principal*

SHAWN MCCALLISTER, *Athletics/Activities Director*

JASON NOVAK, *Guidance*

ELLEN SABO, *High School Secretary*

DEBBIE WOOLLEY, *High School / Facilities Director Secretary*

AMY LYONS, *Athletics/Activities Secretary*

## **MESSAGE FROM THE HIGH SCHOOL ADMINISTRATION**

As we begin to plan for the next school year, you will find some changes to this course selection guide. All course descriptors have been reviewed to provide you and your student with the most information in order to make the best decision for your student's academic success.

At Steel Valley High School, the goal of our faculty and staff is to provide your student with the skills to be college and career ready upon graduation. This may look different for everyone, and it is important to have conversations about interests and post-secondary options and then base course selections on those conversations. As always, administration and your child's guidance counselor are here to assist in the selection process. Our teachers are also a valuable source of knowledge and can provide assistance as well.

Please know that pre-requisites are placed on courses where the rigor of the material is at an accelerated level, or a prior knowledge base is required for students to be successful. Pre-requisites may also include data that is given to the district based on benchmarking assessments or other forms of assessment. Please know that we always have your student's academic growth and success foremost in our placement process.

We are excited to begin the process of another successful and rewarding school year.

Dr. Lisa Duval  
Principal

Mr. John Strom  
Assistant Principal

## MESSAGE FROM THE OFFICE OF THE ATHLETICS / ACTIVITIES DIRECTOR

The following will provide you with important information about NCAA Division I and II initial eligibility standards for athletic participation. This information is critical if your son/daughter plans on participating in college athletics at a Division I or II institution. You may obtain a copy of the NCAA Guide for the College Bound Student Athlete from your son's/daughter's guidance counselor or by contacting the NCAA. This guide provides summaries of various NCAA rules and offers guidance on many topics that are important for you to know. The NCAA Initial Eligibility Clearinghouse Information (i.e. brochure and student release form) is also available from your son's/daughter's guidance counselor.

Please feel free to contact the guidance office if you have questions about any of this information. Also, feel free to contact the NCAA legislative services staff or the clearinghouse if you need additional assistance.

Shawn McCallister  
Athletics / Activities Director



NCAA legislative services staff or the clearinghouse:

NCAA Initial Eligibility Clearinghouse  
P. O. Box 7110  
Indianapolis, IN 46207  
Customer Service Line – (877) 262-1492

OR CONTACT THEM ON THE WEB AT:

[https://web1.ncaa.org/eligibilitycenter/general/index\\_general.html](https://web1.ncaa.org/eligibilitycenter/general/index_general.html)



[NCAA Eligibility Center Website and Services](#)

NCAA Eligibility Center  
P.O. Box 7136  
Indianapolis, IN 46207

**Note: Home schooled students should not send paperwork to the P.O. Box. Please send information to the overnight mailing address.**

NCAA Eligibility Center  
1802 Alonzo Watford Sr. Drive,  
Indianapolis, IN 46202

Toll-free phone number (U.S. callers) - Customer service line - 877/262-1492  
Fax number: 317/968-5100

The Steel Valley School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex, handicap or limited English proficiency in its activities, programs or employment practices as required by Title VI, Title IX and Section 504.

For information regarding civil rights or grievance procedures or information regarding services, activities and facilities that are accessible and usable by handicapped persons, contact Mrs. Diana Borges, Supervisor of Special Education, at Steel Valley School District, 220 East Oliver RD, Munhall, PA 15120 (412) 464-3600 x1905.

**NOTE: The Administration will attempt to include every course in the schedule that is listed in this book. However, if the demand for a course exceeds available space or if the demand is too limited, students may be asked to make an alternate choice.**

## GENERAL INFORMATION

### COUNSELING SERVICES IN SELECTION OF COURSES

Parents may contact Mr. Novak by phone (412-464-3600 X 2521) to talk or to arrange an appointment.

### SPECIAL EDUCATION SERVICES

A full continuum of special education services is available at Steel Valley High School. Students that meet the eligibility criteria and are in need of specially designed instruction may receive academic or emotional support from the Steel Valley Special Educational staff. Related services such as speech and language, occupational therapy, physical therapy, vision, and hearing services are also provided to those students with an identified need. Steel Valley provides Transition Planning for identified students at age 14.

### SCHEDULE LOAD REQUIREMENTS

Our curriculum provides for courses of study designed from our class listings and core subjects to prepare students for post-secondary education, business or the world of work.

Since college entrance requirements vary from one college to another, it is recommended that the college bound student select courses that will meet the requirements of the most demanding college.

- There must be an integrated and meaningful course sequence that yields intellectual development and academic success upon its completion.
- The courses necessary to ensure that students acquire the basic knowledge, skills and attitudes they need to enter the job market or pursue higher education are required of all.
- The curriculum must be organized so that all students take advantage of the learning opportunities available, not just to meet minimum state and local graduation requirements.

In each year of high school, students should carry subjects totaling at least 7 credits. No student will be scheduled for more than 3 study hall periods per week.

A work release may be granted during the senior year at the discretion of the building principal. Only those students who are on track for graduation will be considered. Written approval from both the parent/guardian **and** the employer are required for consideration.

### DETERMINING QPA

The Quality Point Average is computed by dividing quality points by credit hours. Consider this example:

	Course	Credit Hours	Grade	Formula	Qual pts
<i>Note: Honors Credit</i>	Honors English	1.0	A	1 x 4.5	4.5
	Algebra 1	1.0	B	1 x 3	3.0
<i>Note: AP/CHS Credit</i>	AP Chemistry	1.5	B	1.5 x 4	6.0
	World Cultures	1.0	D	1 x 1	1.0
	Spanish 1	1.0	C	1 x 2	2.0
	Computers	1.0	E	1 x 0	0.0
	Phys. Ed.	0.5	B	0.5 x 3	1.5
	Totals	7.0			18
	$QPA = Qual.Pts/Cr.Hrs = 18.0 \div 7.0 = 2.571$				

Honors courses are awarded an additional half quality point for A's, B's, and C's, i.e., 4.5, 3.5, 2.5 AP courses receive an additional quality point for A's, B's, and C's, i.e., 5, 4, 3.

Courses designated Honors and AP/CHS address material, at an accelerated pace, involves more in-depth research and discussion, and may include extensive coursework completed during the preceding summer. Pass/fail credits count toward meeting the graduation requirement but are not included in the QPA computation.

### HONOR ROLL

An honor roll is compiled at the end of each nine-weeks period. Students may qualify for Honor Roll as follows:

There must be no grades of D, E, or I (incomplete)

Honor Roll status is determined by the QPA for that 9 weeks:

Honor Roll	3.25 - 3.74
High Honor Roll	3.75 - 3.99
Highest Honors with Distinction	4.00 or higher

## GRADE LEVELS

Determined by the total credits completed successfully.

Grade 10 — 7.0 credits

Grade 11 — 14.0 credits

Grade 12 — 21.0 credits

## Graduation Requirements

Graduation from Steel Valley High School will be determined by the credits earned in Grades 9, 10, 11, and 12. The minimum amount of credits will be required as the table below dictates. These are to be earned as follows:

## GRADUATION REQUIREMENTS CLASSES OF 2018 - 2021

A total of 28 credits must be distributed as shown.

<i>Steel Valley High School</i>		<i>Steel Center Career Technical Center</i>	
*English (includes graduation project)	4.00 Cr	*English (includes graduation project)	4.00 Cr
*Social Studies	4.00 Cr	*Social Studies	4.00 Cr
*Mathematics	4.00 Cr	*Mathematics	4.00 Cr
*Science	4.00 Cr	*Science	4.00 Cr
*Physical Education	1.50 Cr	*Physical Education	1.50 Cr
*Health	0.50 Cr	*Health	0.50 Cr
Specific Tech & Info Science	2.00 Cr	Electives	2.00 Cr
World Lang/Arts/Humanities	2.00 Cr	* Steel Center Vo-Tech	9.00 Cr
Electives	7.00 Cr		
<b>Minimum Credits needed for graduation</b>	<b>28.00 Cr</b>	<b>Minimum Credits needed for graduation</b>	<b>28.00 Cr</b>

*Additional Credit can be given for any elective course that is repeated for enrichment with Administrative approval.*

\* Courses required for Graduation

\*\* A minimum of 30 hours of community service must be on record for each senior as well.

Students who are attending Steel Center AVTS may be issued credit for Tech-PE or additional course/electives if class time is needed for another graduation requirement.

Students of the Steel Valley High School are required by the district as well as the state to complete a senior project in order to graduate. The Graduation Project of the Steel Valley School District meets the standards set forth by Pennsylvania's Chapter 4 curriculum requirements in accordance with the Chapter 339 plan.

College bound student athletes who wish to participate in athletics in college must complete a core curriculum that includes 14 academic courses to meet NCAA Clearinghouse Eligibility. The requirements differ slightly for Divisions I, II, and III. There is a grade point average requirement and an SAT or ACT test minimum score requirement; check with your counselor.

## CLASS RANK

Class Rank is determined at the end of each 9-week grading period. However, student graduation speakers are determined by a class rank computed at the end of the third quarter in their senior year. A student's cumulative quality point average is computed based upon all grades issued in all courses taken from grades 9 through 12. A class rank is constructed by arranging the students from top to bottom in order of their quality point averages. All ties are resolved by assigning the same class rank to all students tied with the same quality point average.

## STEEL CENTER CAREER TECHNICAL CENTER

Once enrolled into the Steel Center Career Technical Center program, no student may withdraw without the approval of the building principal.

## CREDIT RECOVERY

Counselors and administrators monitor student progress on an ongoing basis. A student who is unresponsive in the traditional school setting may enroll in a credit recovery program. The location could be off campus or on-line instruction.

## OFF SITE COURSES

No more than **one** course from an **accredited** program hosted off site during the academic year may be taken for credit unless approved by the building principal in advance. Pending school board approval, select College in High School programs may be available. If approved, students are responsible for any associated tuition costs should they opt for college credit.

## INCOMPLETE GRADES

Students may be assigned a **temporary** grade of Incomplete (I) at the discretion of the classroom teacher. After ten school days, teachers adjust Incomplete (I) grades to reflect any make-up work. In the event that no make-up work is completed, Incomplete (I) grades are automatically converted to failures (E). *No exceptions are made without the principal's permission.*

A student returning to school following an absence(s) must make up assignments/tests with the teachers immediately. It is the student's responsibility to contact the teacher to arrange make-ups. Failure to do so will be recorded as a "0." An incomplete during the final grading period must be completed by the last day of school or the grade in question becomes a failing mark. A long-term illness is treated separately. The teacher and administration shall review any unusual incomplete grade which affects passing or failing of a subject for the year. Seniors are not permitted to graduate with incomplete grades appearing on their secondary record.

**Any course dropped after the designated deadline date for schedule changes will result in a grade of "E" on his/her transcript. Schedules will not be changed to arrange for a student to have a specific teacher for any course or to reject a specific teacher.**

## COLLEGE IN HIGH SCHOOL

These classes are classes taken during the regular school day taught by our teachers. College credit is earned through successful completion of the pre-approved course. A fee is required by the college to receive the credits. At this time Steel Valley has partnered with the University of Pittsburgh. For example, Pitt's cost last year was approximately \$225.

### Current Classes Approved:

AP/College in High School:	Calculus
AP/College in High School:	Chemistry
AP/College in High School:	Probability and Statistics
AP/College in High School:	Physics C Mechanics
College in High School	French
College in High School	Communication and Rhetoric
College in High School	Psychology

## REPORT OF PUPIL PROGRESS

A student who has not met the requirements for graduation will not be issued a cap and gown; he/she will not participate in commencement. No diplomas will be issued until all state and local requirements are met.

Report cards are issued every nine weeks. A progress report will be sent at the mid point of each grading period. Students and parents can check classroom assignments online using Edustar: [www.goedustar.com](http://www.goedustar.com). You can obtain your activation code for Edustar from the technical department.

***Teachers will make every attempt to update their EDUSTAR pages weekly.***

## GRADING POLICY

The following scale will be used:

90 - 100	= A
80 - < 90	= B
70 - < 80	= C
60 - < 70	= D
< 60	= E

Final averages are determined by combining the percentages in each quarter, not the associated letter grade. The teacher will explain to the students the point system being used for each evaluation, quiz, homework, test, etc. so that a student is aware, at any time during the grading period, where he/she stands. Students are also encouraged to follow their progress at [www.goedustar.com](http://www.goedustar.com).

## PREREQUISITES

Prerequisites describe a certain level of knowledge to be successful in each course. In order to meet the high educational rigorous demands of advanced courses, prerequisites will be closely followed. Most Academic, Honors and AP/CHS courses require Proficient or Advanced standing on the previous year's PSSA or Keystone as well as a certain GPA.

## **STUDENT SCHEDULES**

Before the end of the school year, or during the month of June, students will receive a list of their courses scheduled for the upcoming year. Please notify the High School office prior to **August 11<sup>th</sup>** if there is a course that has been omitted or if a course was added by mistake.

## **FULL YEAR COURSES**

After school starts, course changes for year-long courses will only be made within the **first 2 weeks** of the first report period for students experiencing academic difficulty.

## **SEMESTER COURSES**

Semester course change requests for both the first and second semesters must be made within the **first 2 weeks** of each semester for students experiencing academic difficulty.

**Because of these deadlines, it is very important that the student, parent and counselor examine schedules closely so changes are not necessary. Scheduling of a course is a commitment for the entire school year. Please make your course selections carefully. There will be NO schedule changes after the 2 week period.**

*The Steel Valley High School's Guidance Department reserves the right to change students' schedules based on aptitude and prerequisites for the purpose of individual student achievement. The Guidance office will make students aware of the situation as changes are made; be assured this will only be done with the student's best interest in mind. The goal of the Guidance Department is for every child to achieve academically and develop intellectually to his/her fullest ability.*

- ***The Administration reserves the right to adjust a student's schedule for any reason.***



# Academic Curriculum Tracks

All the curricula offerings are designed to prepare students for post-secondary schooling. It is the intent of these progression charts to assist students and parents in mapping their child’s educational career. Students may move to a more demanding curriculum by meeting the prerequisites of a 92% as a final grade in all content areas.

**Classes offered and credit amounts may be modified once a master schedule and daily period schedule have been developed.**

## GENERAL CURRICULUM

9th GRADE	10th GRADE	11th GRADE	12th GRADE
English 9	English 10	English 11	English 12
American Cultures I	American Cultures II	World Cultures	Contemporary Topics
Intro to Algebra	Academic Algebra	Academic Geometry Geometry	Academic Algebra II Consumer Math Standards Based Math
Applied Science	Biology	Earth/Space Academic Chemistry Pre-AP Chemistry	Earth/Space Physics Honors Astronomy AP Chemistry AP Biology
PE	PE	PE	PE
Elective 1 Elective 2 Elective 3	Elective 1 Elective 2 Elective 3	Elective 1 Elective 2 Elective 3	Elective 1 Elective 2 Elective 3

# ACADEMIC CURRICULUM

9th GRADE	10th GRADE	11th GRADE	12th GRADE
Academic English 9	Academic English 10	Academic English 11	Academic English 12
American Cultures I	American Cultures II	Honors World Cultures World Cultures	Contemporary Topics CHS Psychology
Algebra 1	Academic Geometry Geometry	Academic Algebra 2 Standards Based Math	Academic Pre-Calculus Academic Trig Standards Based Math Consumer Math
Academic Biology Applied Science	Academic Chemistry Pre-AP Chemistry Biology	Physics 1 Earth/Space Pre-AP Chemistry AP Chemistry Honors Astronomy Anatomy/Physiology	AP Physics C AP Chemistry Earth/Space Anatomy/Physiology Physics I AP Biology Honors Astronomy
PE	PE	PE	PE
Elective 1 Elective 2 Elective 3	Elective 1 Elective 2 Elective 3	Elective 1 Elective 2 Elective 3	Elective 1 Elective 2 Elective 3

***ADVANCED PLACEMENT CURRICULUM***

<b>9th GRADE</b>	<b>10th GRADE</b>	<b>11th GRADE</b>	<b>12th GRADE</b>
Honors English 9	Honors English 10	Honors English 11	AP English 12 Honors English 12
AP History 1	American Cultures II AP History 2	Honors World Cultures	Contemporary Topics CHS Psychology
Honors Geometry	Honors Algebra 2	Honors Trig Pre Calc AP Prob & Stats AP Calculus I	AP Calculus I AP Calculus II AP Prob & Stats
Academic Biology	Academic Chemistry Pre-AP Chemistry	Physics 1 AP Chemistry Anatomy / Physiology AP Biology	AP Physics C AP Chemistry Anatomy / Physiology AP Biology
PE	PE	PE	PE
Elective 1 Elective 2 Elective 3	Elective 1 Elective 2 Elective 3	Elective 1 Elective 2 Elective 3	Elective 1 Elective 2 Elective 3

## LANGUAGE ARTS

### **ENGLISH 9**

**Full year**

**Prerequisite- None**

This course focuses on communication skills, following directions, group participation, in depth research, presenting a point of view, grammar and the writing process. This course provides students with a variety of reading strategies that will enable them to discern relevant information from fiction and non-fiction texts. Reading strategies including but not limited to active readers and responders, talking to the text, distinguishing fact from opinion, identifying author's purpose, and enhancing vocabulary skills will be emphasized throughout the class. The content of the class will vary depending on the individual needs of the student readers.

**Grade 9  
1.0 credit**

### **ACADEMIC ENGLISH 9**

**Full year**

**Prerequisite - Proficient in grade 8 PSSA and min B in LA 8 or A in Adv LA 8.**

This course extends the material in English 9 with emphasis on improving student writing, vocabulary, reading skills, oral presentations, communication skills, and PSSA review. Students complete several outside readings.

**Grade 9  
1.0 credit**

### **HONORS ENGLISH 9**

**Full year**

**Prerequisite - Proficient in grade 8 PSSA and A in LA 8 or minimum B in Adv LA 8.**

This course is for students who have demonstrated outstanding achievement in grade 8 Language Arts. Students complete several summer readings and undertake an enriched reading and writing program. The focus is on improving grammar, composition, vocabulary, and oral presentations.

**Grade 9  
1.0 credit**

### **ENGLISH 10**

**Full year**

**Prerequisite - Successful completion of any English 9**

This course is designed to introduce students to the unique experiences that comprise American Literature. Students will examine poems, plays, short stories, books, and non-fiction from a myriad of American writers. Writing, grammar, vocabulary, reading skills, and oral presentation skills will be emphasized.

**Grade 10  
1.0 credit**

### **ACADEMIC ENGLISH 10**

**Full year**

**Prerequisite - Minimum B in Acad English 9 or C in Honors English 9**

This course covers the same material as English 10 with an increased emphasis on the writing process. Students develop multi-paragraph essays in connection with major readings.

**Grade 10  
1.0 credit**

### **HONORS ENGLISH 10**

**Full year**

**Prerequisite- Minimum B in Honors English 9 or A in Acad English 9**

Students will be challenged in their critical analysis of American Literature in this advanced course. In class essays will be emphasized, in addition to other analytical and creative writing assignments, vocabulary, and oral presentation skills. Literary criticism will be introduced through the reading selections. Students must complete a summer reading and writing assignment prior to the start of the school year.

**Grade 10  
1.0 credit**

### **ENGLISH 11**

**Full year**

**Prerequisite - Successful completion of any English 10**

This course focuses on a survey of World Literature, highlighting writings representing all cultures. As they continue to develop their writing and vocabulary skills, students read examples of man's earliest attempts to explain his world through myths and folktales through the 20th century as he deals with the complex problems of the modern world.

**Grade 11  
1.0 credit**

### **ACADEMIC ENGLISH 11**

**Full year**

**Prerequisite- Proficient score on Keystone Lit exam, an A in English 10 or a minimum B in Acad English 10**

This course covers the same material as English 11 with an increased emphasis on improving writing and vocabulary skills in preparation for college.

**Grade 11  
1.0 credit**

### **HONORS ENGLISH 11**

**Full year**

**Prerequisite- Proficient score on Keystone Lit exam & min B in Honors Eng 10 or A in Acad Eng 10**

This course builds on material from Honors English 10 and prepares students for the AP English course in grade 12. Students will hone critical and creative writing skills while exploring a wide variety of fiction, nonfiction, drama, and poetry. Students must complete a summer reading assignment prior to the start of the school year.

**Grade 11  
1.0 credit**

### **KEYSTONE LITERATURE PREP**

**Semester**

This course is offered to any student in grade 11 who scored basic or below basic on the Keystone Lit exam. Students will receive remedial instruction on the state assessment anchors to help demonstrate proficiency on the Keystone Lit Exam. Course may be offered on-line or in a classroom setting.

**Grade 11  
0.5 credits**

### **ENGLISH 12**

**Full year**

**Prerequisite - Successful completion of any English 11.**

This course focuses on a chronological survey of English Literature from the classics to examples of contemporary British and American writers. Students enhance vocabulary skills and improve writing skills by eliminating errors in usage and mechanics.

**Grade 12  
1.0 credit**

**ACADEMIC ENGLISH 12** **Grade 12**  
**Full year** **1.0 credit**  
**Prerequisite- Proficient score on Keystone Lit exam & A in English 11 or B in Acad English 11**  
 This course extends the material in English 12 with several outside readings. Students who are college bound should select it. A research project incorporates all of the skills developed previously.

**HONORS ENGLISH 12** **Grade 12**  
**Full year** **1.0 credit**  
**Prerequisite- Proficient score on Keystone Lit exam & minimum B in Honors 11 or A in Acad English 11**  
 This course builds on material from Honors English 11. Students will analyze and evaluate texts from the British literature canon and will utilize critical writing skills that will prepare them for postsecondary coursework. Students will hone their analytical and writing skills while exploring a wide variety of fiction, nonfiction, drama, and poetry. Students must complete an extensive summer reading, writing, and grammar assignment prior to the start of the school year.

**AP ENGLISH 12** **Grade 12**  
**Full year** **1.0 credit**  
**Prerequisite- Proficient score on Keystone Lit exam & min B in Honors Eng 11**  
 This Honors course is offered to seniors who take the AP exam. Students study and read works of authors who appear most frequently on the AP exam, analyze readings through class discussion, improve writing skills by studying techniques for achieving various effects on the audience, edit and revise their writing, and enhance their vocabulary. They complete a research paper to demonstrate mastery of the research techniques learned in previous English classes. Students MUST complete selected summer reading assignments prior to the start of the school year. Students who complete the course are encouraged to take the AP Exam.

**CHS COMMUNICATION and RHETORIC (Elective ONLY)** **Grades 11-12**  
**Full year** **1.0 credit**  
**Prerequisite- Proficient score on Keystone Lit exam and minimum B in Honors or A in Acad Eng.**  
 This introductory course examines the fundamentals of argument and prepares students for proficiency in the application of these elementary debating techniques. There are two main units in this course. The first unit examines the foundations of argument construction, support, and refutation. The second unit develops argument skills through in-class debates. There is a written as well as oral component to this course. Students taking this course have the option to pay tuition to participate in the College in High School program with the University of Pittsburgh and will receive 3 Pitt credits for the course. This is a writing-intensive course.

**PUBLIC SPEAKING (Elective ONLY)** **Grades 9-12**  
**Semester** **0.5 credits**  
**Prerequisite- None**  
 Students are introduced to public speaking as an important component of their academic, work, and social lives. Students will participate formally and informally in small and large group discussions pertaining to literary analysis and informational and persuasive topics. They will give formal presentations individually or in groups in order to engage in peer-to-peer learning. Students will develop discussion leadership skills, identify propaganda techniques, and research a variety of topics. During presentations, students will use proper volume, stance, eye contact, and articulation abilities. Students will study how to incorporate well-designed visual and multimedia aids in presentations and how to maintain a credible presence in the digital world. Students also learn about the ethics of public speaking and about techniques for managing communication anxiety

**PUBLIC SPEAKING II (Elective ONLY)** **Grades 11-12**  
**Semester** **0.5 credits**  
**Prerequisite- Public Speaking I**  
 As a non-collegiate option, the second level of Public Speaking would be an expansion of Public Speaking I. Students will give research based presentations, work on a “Moth Radio Hour”, a “Poetry Slam”, and a “Ted Talk”. Their speeches will be longer and geared for a specific audience and purpose. Rather than the event driven curriculum of Public Speaking I, this course will be tailored to the personal interests of the students.

**CREATIVE WRITING (Elective ONLY)** **Grades 9-12**  
**Semester** **0.5 credits**  
**Prerequisite- None**  
 In this course, students write personal narratives based on their own experience and short fiction drawn from their imaginations. Characterization, point of view, suspense, foreshadowing, symbolism, description, dialogue, and other narrative techniques are practiced. Opportunities will be provided for students to write poetry, essays, technical writing, short plays/screenplays, fables, fairytales, short stories, and song lyrics.

**CREATIVE WRITING II (Elective ONLY)** **Grades 11-12**  
**Semester** **0.5 credits**  
**Prerequisite- Creative Writing I**  
 In Creative Writing II, students will expand the skills learned in Creative Writing I in various formats of the students choosing. Students will explore themes and concepts with the objective of expanding them into a short story, a poem, a song, or a screenplay. Students will be exploring the use of various tools to broaden their skill set. Students will be expected to write pieces that demonstrate the importance of historical context, social influences, topical issues, and alternative points of view. Students will be journaling daily with the expectation that they will be able to use their journal as a repository for ideas about what to write and how to write it. Students will be permitted choice of product but are expected to produce at least one example of each type of writing. Students will build a portfolio of polished work by the end of the course.

**DRAMA THROUGH LITERATURE** (Elective ONLY) **Grades 9-12**  
**Semester** **0.5 credits**

**Prerequisite- None**

Students will be exposed to a variety of plays from different time periods and cultures. Students will be able to recognize and appreciate the differences between reading and performing a play. Students will analyze dialogue, monologues, and soliloquies; will learn about dramas, tragedies, and comedies; and will explore costumes, staging, and direction.

**SAT/ACT PREPARATION** **Grades 11-12**  
**Semester** **0.5 credits**

**Prerequisite – None.**

Students will be provided with SAT/ACT practice questions and test-taking strategies in order to help them prepare for those tests. The verbal preparation focuses on vocabulary building, contextual reading skills for the sentence completion and reading comprehension sections of the exam, analogy types and techniques, roots and prefixes, reading attack skills, and writing skills. Practice and test-strategy skills will focus on multiple-choice and quantitative comparison questions.

## SOCIAL STUDIES

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**AMERICAN CULTURES I** **Grade 9**  
**Full year** **1.0 credit**

**Prerequisite- None**

This course will examine the culture and history of the United States between 1783-1877. The emphasis is on the role of the federal government and rights of individuals and groups within the United States.

**AMERICAN CULTURES II** **Grade 10**  
**Full year** **1.0 credit**

**Prerequisite - Successful completion of American Cultures I or AP I**

This course is a continuation of the culture and history of the American people between 1878 – present. Students are also exposed to American foreign policy from the Twentieth Century to the present.

**AP U.S. HISTORY 1** **Grade 9**  
**Full year** **1.0 credit**

**Prerequisite - A in English and History AND proficient on PSSA 8 ELA**

This Honors level course is for students who have demonstrated outstanding academic achievement in History as well as reading and writing skills in the middle school. The course is an in-depth study of the cultures and history of the United States from the origins of our nation in 1607 until the end of the Reconstruction in 1877. The course requires extensive reading and many analytical writing assignments.

**AP U.S. HISTORY 2** **Grade 10**  
**Full year** **1.0 credit**

**Prerequisite - B in AP U.S. History 1.**

This Honors course is an in-depth examination of American history from the Reconstruction in 1877 to the 1990's. Students are exposed to college level reading and writing assignments and will have the opportunity to take the AP History examination at the end of the course.

**WORLD CULTURES** **Grade 11**  
**Full year** **1.0 credit**

**Prerequisite - Successful completion of previous American Cultures II or AP**

**U.S. History II**

This course studies the international community as it examines their basic social institutions and cultural contributions relative to geography, history, religion, government and economics.

**HONORS WORLD CULTURES** **Grade 11**  
**Full year** **1.0 credit**

**Prerequisite – Proficient on Keystone Lit exam AND a B in AP U.S. History II or an A in American Cultures II**

This course is a study of the international community including the United States, the Middle East, Africa, Japan, China, Europe, Asia, India, Latin America and Canada. Emphasis is placed on the past and present relationships among industrialized, emerging, and underdeveloped countries. Students analyze the institutions of family, government, economics, education, and religion.

**CONTEMPORARY TOPICS** **Grade 12**  
**Full Year** **1.0 credits**

**Prerequisite: Successful completion of any World Cultures course**

This course develops critical thinking about local, national and international events. Course materials will include current news, sport, economics, civics and Pennsylvania History. Students will be exposed to content through television, movies, print media and various Internet activities to analyze current and popular topics.

**CHS PSYCHOLOGY** **Grade 12**  
**Full year** **1.0 credit**  
**Prerequisite – Proficient on Keystone Lit exam AND Minimum B in Honors World Cultures**

This college level course serves as an introduction to Psychology and will enable the student to earn 3 college credits from the University of Pittsburgh. (Fee Required) The course content will provide the learner with a survey of subjects including: The History of Psychology, Scientific Testing, Personality, Autism, Schizophrenia, Normal and Abnormal Behavior, Child Development and States of Consciousness.

## MATHEMATICS

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### INTRO TO ALGEBRA WITH LAB

Full year

**Prerequisite – Grade 8 math teacher recommendation**

This course is designed for students who need additional time to grasp math concepts and who were not proficient on the 8<sup>th</sup> grade Math PSSA. Students will study operations, linear equations and inequalities, laws of exponents, systems of equations, and polynomials and factoring. Students will study the standards and eligible content as provided by the Pennsylvania Department of Education in preparation for the Algebra I Keystone Exam they will take upon completion of Algebra I. Students will use the ALEKS computer program for part of their coursework.

**Grade 9  
1.5 credits**

### ALGEBRA 1 WITH LAB

Full year

**Prerequisite – Basic score on grade 8 PSSA Math or minimum 75% in Grade 8 Math**

Students will study operations, linear equations and inequalities, graphing and writing linear functions, laws of exponents, systems of equations, polynomials and factoring, radicals, quadratic equations, coordinate geometry as it applies to linear rates of change and the line of best fit, and data analysis. Students will study the standards and eligible content as provided by the Pennsylvania Department of Education in preparation for the Algebra I Keystone Exam they will take in May. Students will use the ALEKS computer program for part of their coursework.

**Grade 9  
1.5 credits**

### HONORS GEOMETRY 9 WITH LAB

Full year

**Prerequisite - Proficient score on grade 8 PSSA or Keystone Algebra and minimum B in Grade 8 Algebra**

Fast paced, honors-level course designed for students who possess and have demonstrated a strong mathematical ability. This course introduces students to geometric terms, the tools of geometry, postulates, and theorems. Students apply this knowledge to solve problems and write proofs using deductive reasoning. Other topics include transformations, triangle relationships, circles, and perimeters, areas, and volumes of plane and 3-dimensional objects.

**Grade 9  
1.5 credits**

### GEOMETRY

Full year

**Prerequisite - Successful completion of Algebra 1**

This course provides a general, yet thorough introduction to the fundamentals of geometry. Students will study geometric properties, parallel and perpendicular lines, triangle relationships, similarity, polygons, measurement, perimeter, area, volume, surface area, Pythagorean Theorem, circle properties, and reasoning and proof.

**Grade 10  
1.0 credit**

### ACADEMIC GEOMETRY

Full year

**Prerequisite - Minimum C in Algebra 1**

This course introduces students to geometric terms, definitions, postulates, and theorems. Students apply this knowledge to solve problems and write proofs. Other topics include parallel and perpendicular lines, triangle relationships, similarity, polygons, measurement, perimeter, area, volume, surface area, Pythagorean Theorem, and circle properties.

**Grade 10  
1.0 credit**

### HONORS ALGEBRA 2

Full year

**Prerequisite - Minimum B in Honors Geometry 9 and proficient score on the Keystone Algebra Exam**

Fast paced course designed for students who possess and have demonstrated a strong mathematical ability. Students will study equations, inequalities, linear functions, linear systems and matrices, quadratic functions and factoring, polynomials, rational exponents, radical functions, exponential and logarithmic functions, and sequences and series. Probability and data analysis topics are interwoven. Graphing calculators or similar iPad applications are used to empower students to connect symbolic representation with concrete examples. Technology exercises are used to help students explore and visualize concepts.

**Grade 10  
1.0 credit**

### KEYSTONE ALGEBRA PREP

Semester

This course is required for all students in grades 9, 10, and 11 who have not demonstrated proficiency on the Keystone Algebra I Exam. Students will study the standards and eligible content as provided by the Pennsylvania Department of Education in preparation for the Algebra I Keystone Exam they will take in December/May. This course may be offered on-line or in a classroom setting.

**Grade 9-11  
0.5 credits**

### STANDARDS BASED / INTEGRATED MATH

Full year

**Prerequisite - Successful completion of any Geometry**

This course is based on the standards and eligible content as provided by the Pennsylvania Department of Education. Students will study algebraic concepts, geometric concepts, data analysis and probability along with problem-solving and critical thinking. Scientific and graphing calculators, or similar iPad applications, will be incorporated into the coursework.

**Grade 11-12  
1 credit**

### STATISTICS THROUGH SPORTS (Elective Only)

Semester

**Prerequisite- None**

This course is designed to be an introduction into the use of statistics in sports. On various different levels, statistics are used in sports to evaluate player performance, build teams, and generate revenue. The topics discussed will allow students to gain a better understanding of how to calculate basic sports statistics and evaluate player performance. Calculating a team's chances of winning, the best player available for a team to draft, or how a change in game theory affects a team's chances are some of the basic applications. More advanced evaluation tools such as advanced metrics and multiple regressions will also be discussed in the course.

**Grades 11-12  
0.5 credits**

**ACADEMIC ALGEBRA 2****Full year****Prerequisite - Minimum C in Academic Geometry**

The course improves the skills developed in Algebra 1. Students graph systems of linear equations, inequalities and second-degree equations. They simplify rational expressions and expressions containing radicals and complex numbers. Functions and relations are discussed. Scientific and graphing calculators, or similar iPad applications, are incorporated into the coursework.

**Grades 11-12****1.0 credit****ACADEMIC TRIGONOMETRY****Full year****Prerequisite - Minimum C in Academic Algebra 2**

This course introduces the six trigonometric functions and relates them to the right triangle and the unit circle. These functions are used in graphing, deriving identities and trig laws, solving equations, and working with complex numbers. They are also applied to physics problems, and in the areas of surveying, navigation, electronics and sound. Graphing calculators, or similar iPad applications, and computers are incorporated into this course.

**Grades 11-12****1.0 credit****AP / CHS PROBABILITY AND STATISTICS****Full year****Prerequisite - Minimum A in Academic or B in Honors Algebra 2 AND proficient score on the Keystone Algebra test.**

This course (Pitt course number 0200) enables students to understand statistical material in economics, business, education, psychology, sociology, and medicine. The content includes graphical techniques, binomial distributions, normal distributions, discrete and continuous random variables, compilation and interpretation of numerical data, measures of central tendency and dispersions, and basic rules of probability and their applications. Applications include projects and computer analysis, and scientific calculators. To receive college credit, students may either take the AP Statistics Exam or participate in the College in High School program through the University of Pittsburgh.

**Grades 11-12****1.0 credit****HONORS PRE CALCULUS / TRIGONOMETRY WITH LAB****Full year****Prerequisite - Minimum B in Honors Algebra 2 AND proficient on the Keystone Algebra exam**

A complete course of trigonometry and its applications are taught, along with an abbreviated course in the topics of pre calculus. This course is necessary for the study of calculus in the senior year. All topics are aided by the use of a graphing calculator or similar iPad applications.

**Grade 11-12****1.5 credits****ACADEMIC PRE-CALCULUS****Full year****Prerequisite - Minimum C in Academic Algebra 2 or Academic Trigonometry**

This course is designed to lay the groundwork for further study of mathematics at the college level. Students learn all the essentials plus polynomial functions, exponential and logarithmic functions, conic sections, vectors, sequences and series, probability and statistics, and topics from calculus. The graphics calculator, computer or similar iPad applications are used as aids. A variety of interesting real-world applications are included in the course.

**Grade 12****1.0 credit****AP/CHS CALCULUS WITH LAB****Full Year****Prerequisite- Minimum B in Honors Trig/Pre-Calculus AND proficient on the Keystone Algebra exam**

This AP course (Pitt course number 0220) focuses on limits, continuity, differentiation, and integration. Additional emphasis is placed on applications of derivatives and integrals, as well as transcendental functions. A combination of algebraic, numerical, and graphical approaches incorporate extensive use of a graphing calculator or similar iPad applications. Students qualify to take the AB Calculus AP exam and be given the option of paying tuition to participate in the college in high school program, earning 4 University of Pittsburgh credits for the course. A placement test is required by the University of Pittsburgh to be eligible for the program. Minimum eligible score is 76. Cost for placement test is \$25.

**Grade 11-12****1.5 credits****CHS CALCULUS II****Full Year****Prerequisite- Minimum B in AP/CHS Calculus I AND proficient on the Keystone Algebra exam**

The AP/College level course (Pitt course number 0230) focuses on Integration Techniques, Vectors, Parametric Curves, Polar Curves, Sequences and Series, and Differential Equations. Although technology is used to reinforce concepts, no graphing calculators are permitted on assessments. Students qualify to take the BC Calculus AP exam and are given the option of paying tuition to participate in the college in high school program earning 4 University of Pittsburgh credits for the course.

**Grade 12****1.0 credit****CONSUMER MATH****Full year****Prerequisite - Successful completion of Algebra 1**

For consumer and business use, this course covers personal checking, savings accounts, sales slips, taxes, wages, loans, insurance, stocks and bonds and reviews math skills with the aid of a calculator or a similar iPad application. Directed practice through carefully planned projects and a practice set provides the student opportunities in performing accounting tasks commonly found in business. Where possible, the personal aspects of accounting are stressed in addition to its vocational aspects.

**Grade 12****1.0 credit****SCIENCE****APPLIED SCIENCE****Full year****Prerequisite- Science 8**

This introductory-level course gives students an awareness of the principles of biology. Students will study basic biological concepts and the mathematics of science (including conversions and graphing). *Laboratory exercises are utilized to emphasize important concepts.*

**Grade 9****1.5 credits**



**ACADEMIC BIOLOGY 9**  
**Full Year**  
**Prerequisite – Minimum B in Advanced ELA 8 or A in ELA 8, proficient in ELA, Math, and Science PSSA**

This college preparatory course is content and vocabulary intensive. Units in ecology, biochemistry, cell biology, genetics, and evolution are covered throughout the year. Students will complete numerous labs and projects that enhance learning. In addition to the provided reading material, students will read and evaluate text from journal articles, newspapers, and other sources. Students enrolled in the course are expected to complete the Biology Keystone examination at the end of the year.

**Grade 9**  
**1.5 credits**

**PRE-AP CHEMISTRY**  
**Full year**

**Prerequisite - Proficient on Keystone Alg. And Bio AND a B in academic Bio**  
The student studies the atomic structure, chemical composition and reactions of matter. Hands-on experiences are provided to the student through a laboratory program. This course is a prerequisite for AP Chemistry.

**Grades 10**  
**1.5 credits**

**AP/CHS CHEMISTRY**  
**Full year**  
**Prerequisite - Proficient in Keystone Alg AND Bio. Minimum QPA of 3.75 AND minimum B in Pre-AP Chemistry**

This Advanced Placement course continues the study of Pre-AP Chemistry with a more rigorous examination of the topics studied. Recommended for students planning a career in medicine, dentistry, pharmacy, or chemical engineering. A complete laboratory program is provided. Students who complete this course are encouraged to take the AP Exam.

**Grades 11- 12**  
**1.5 credits**

**ANATOMY AND PHYSIOLOGY**  
**Full year**  
**Prerequisite - Minimum C in any Biology AND Chemistry**

This course involves a detailed study of the systems of the human body. Laboratory activities incorporate various dissections. It is recommended for students planning to enter the health professions or those with a high interest.

**Grades 11- 12**  
**1.0 credit**

**KEYSTONE BIOLOGY PREP**  
**Semester**

This course is required for all students in grades 10 and 11 who have taken the Keystone Biology Exam and have not demonstrated proficiency. Students will study the standards and eligible content as provided by the Pennsylvania Department of Education in preparation for the Biology Keystone Exam they will take in December/May. Course may be offered on-line or in a classroom setting.

**Grade 10-11**  
**0.5 credits**

**ACADEMIC CHEMISTRY**  
**Full year**  
**Prerequisite- Minimum QPA of 2.5 or C in any Biology AND Algebra 1**

This Chemistry course is designed to provide students with an opportunity to develop and evaluate basic ideas and theories related to chemistry. Students are required to apply skills and knowledge to chemistry principles in order to explain various concepts, solve problems, and complete laboratory experiments.

**Grades 10-12**  
**1.5 credits**

**BIOLOGY**  
**Full year**  
**Prerequisite - Successful completion of Applied Science**

This is a survey course covering all major areas of biology. It is designed to give the student a practical background in the life sciences. Selected laboratory exercises are utilized to emphasize important concepts.

**Grades 10-11**  
**1.5 credit**

**AP BIOLOGY**  
**Full year**  
**Prerequisite- Minimum B in Pre-AP Chemistry, or A in Academic Chemistry AND proficient on Bio Keystone**

This rigorous course is designed to be the equivalent of 8 credits of college-level biology. Topics include biochemistry, molecular biology, genetics, evolution, microbiology, zoology, anatomy and physiology, ecology, and population genetics. There are several advanced laboratory exercises that will be completed to enhance student learning. Students who complete this course are encouraged to take the AP examination at the end of the year.

**Grades 11-12**  
**1.5 credits**

**EARTH/SPACE**  
**Full year**  
**Prerequisite - Successful completion of Biology**

Students study issues in Nature of Science, meteorology, oceanography, geology, the exploration of space, the earth-moon system, life and the creation of the universe. Activities include hands-on laboratory investigations, relevant videos, and extensive use of school planetarium.

**Grades 11-12**  
**1.0 credit**

**HONORS ASTRONOMY**  
**Full year**  
**Prerequisite - Successful completion of any Chemistry or proficient on Alg Keystone**

Topics include quantitative in-depth study and investigations of the origins of astronomy, creation of the universe, star, sun and sky cycles, the planets and their motions, black holes and string theory. Activities include laboratory investigations, hands-on in-class experiences, out of class experiences, films, and extensive use of the school's planetarium.

**Grades 11-12**  
**1.0 credit**

**PHYSICS 1**  
**Full year**  
**Prerequisite - Minimum QPA of 2.5 or C in any Chemistry**

This laboratory-based course focuses on the interactions of matter and energy in the physical world as it develops students' skills in problem solving, critical thinking, and data analysis. Topics include motion and mechanical forces, energy, waves, electromagnetism, light, and nuclear processes.

**Grades 11-12**  
**1.5 credits**

**AP PHYSICS C MECHANICS****Grade 12  
1.5 credits****Full year****Prerequisite - A minimum of a B in Physics I or concurrent enrollment in Calculus I**

This AP course is an introductory college physics course intended for science and engineering majors. The goal of this course is to learn physics and to develop the skills of critical thinking and problem solving. Students will learn the principles of Newtonian mechanics, energy, collisions, rotational mechanics, gravitation, waves, and the kinetic theory of gases. Calculus topics are introduced and applied where needed. Students will be prepared to take the AP Physics C exam. Students who have completed or are concurrently enrolled in Calculus I will have the option of paying tuition to participate in the College in the High School program earning four college credits for the course.

**FORENSIC SCIENCE (Elective Only)****Grades 11-12  
0.5 credits****Semester****Prerequisite - Minimum C in any Biology AND Chemistry**

Forensic science is the study and application of science as it pertains to law. This course is intended to provide an introduction to the analysis of crime scenes. Throughout the course topics that will be highlighted include, but are not limited to, crime scene analysis, blood analysis, fingerprinting, chromatography, and ballistics.

**WORLD LANGUAGE****FRENCH 1****Grades 9-12  
1.0 credit****Full year****Prerequisite - None**

Students comprehend and produce simple, short sentences and ideas using memorized words and phrases. They interact with each other in role-playing situations they might encounter in life. Basic communicative tasks are facilitated by memorized patterns. Reading comprehension is enhanced by repeating, reading aloud, reciting and writing simple sentences. Students learn to recognize and compare people, culture, products and viewpoints with their own. Students are introduced to ways in which French is connected to the native language, to other disciplines and to resources beyond the classroom.

**FRENCH 2****Grades 10-12  
1.0 credit****Full year****Prerequisite - French 1, minimum C grade**

This is a continuation of the first level with reinforcement and enrichment of vocabulary, grammar and culture. Students study more complex ideas and become more aware of similarities and differences between French and native language and cultures. They continue to use informational skills common to French that could be transferred to other disciplines.

**FRENCH 3****Grades 11-12  
1.0 credit****Full year****Prerequisite - French 2, minimum C grade**

The level 3 course is designed to consolidate the foundation established in Levels 1 and 2 and to expand the student's knowledge of how French functions. Students will expand on reading, writing, speaking and listening (skills) using past, present and future tenses. Level 3 students discuss, analyze, compare and explain various cultural aspects of French. Students will transfer information, skills and resources from French to other disciplines and vice versa. They are encouraged to seek opportunities to use or apply the target language outside the school environment.

**CHS FRENCH****Grades 12  
1.0 credit****Full year****Prerequisite - French 3, minimum C grade**

A course consolidates the foundation established in levels 1, 2 and 3 and expands the student's knowledge of how the language functions. Concentration on reading, writing, speaking and listening using past, present, and future tenses is included. Students discuss, analyze, compare and explain various cultural aspects. Students exchange information, skills and resources with other disciplines. They are encouraged to seek opportunities to apply French outside the school environment. You will have the opportunity to receive college credit from Pitt after successful completion of this course.

**SPANISH 1****Grades 9-12  
1.0 credit****Full year****Prerequisite - None**

Students comprehend and produce simple, short sentences and ideas using memorized words and phrases. They interact with each other in role-playing situations they might encounter in life. Basic communicative tasks are facilitated by memorized patterns. Reading comprehension is enhanced by repeating, reading aloud, reciting and writing simple sentences. Students learn to recognize and compare people, culture, products and viewpoints with their own. Students are introduced to ways in which Spanish is connected to the native language, to other disciplines and to resources beyond the classroom.

**SPANISH 2****Grades 10-12  
1.0 credit****Full year****Prerequisite - Spanish 1, minimum C grade**

This is a continuation of the first level with reinforcement and enrichment of vocabulary, grammar and culture. Students study more complex ideas and become more aware of similarities and differences between Spanish and native language and cultures. They continue to use informational skills common to Spanish that could be transferred to other disciplines.

**SPANISH 3**  
**Full year**  
**Prerequisite - Spanish 2, minimum C grade**  
 This level 3 course consolidates the foundation established in levels 1 and 2 and expands the student's knowledge of how the language functions. Concentration on reading, writing, speaking and listening using past, present, and future tenses is included. Students discuss, analyze, compare and explain various cultural aspects. Students exchange information, skills and resources with other disciplines. They are encouraged to seek opportunities to apply Spanish outside the school environment.

**Grades 11-12**  
**1.0 credit**

**SPANISH 4**  
**Full year**  
**Prerequisite - Spanish 3, minimum C grade**  
 The level 4 course in Spanish is designed to strengthen the ease and confidence with which the students use the target language for self-expression. Level 4 students initiate, sustain and bring to closure a wide variety of communicative tasks. Students will continue to refine skills of comprehension, analysis and interpretation in the target language. Students in level 4 will expand their knowledge of various aspects of the target cultures, apply, evaluate, explain and integrate this information. Students will be able to synthesize and apply information from target language resources to other disciplines and vice-versa.

**Grades 12**  
**1.0 credit**

## ARTS

**ART 1**  
**Semester**  
**Prerequisite- None**  
 Art I is an introductory course designed to encourage an appreciation for the arts. Various mediums and techniques will be explored throughout this course, as well as artists and their work throughout history. Students will examine and apply the basic elements and principles of art and design to create their own original art.

**Grades 9-12**  
**0.5 credits**

**ART 2**  
**Semester**  
**Prerequisite - ART 1**  
 Art II explores the fundamentals of drawing and painting through a variety of two and three dimensional art projects. This course allows students to continue to develop their basic drawing and painting skills and a further appreciation for art by applying methods such as grid drawing, portrait drawing, shading techniques and perspective. Emphasis is placed on proper technique as well as creativity.

**Grades 9-12**  
**0.5 credits**

**ART 3**  
**Semester**  
**Prerequisite- ART 2**  
 Art 3 allows students to continue to build upon the foundational skills acquired in Art 1 and Art 2. Students will apply knowledge learned to challenge them further and begin to develop their own personal style of art. Students will be able to use wide variety of materials.

**Grades 10-12**  
**0.5 credits**

**ART 4**  
**Semester**  
**Prerequisite- ART 3**  
 Art 4 is developed for the serious art student who is interested in continuing to grow as an artist by exploring various techniques and mediums. This course will allow students to work more independently and create original works of art based upon their individual skills and interests. Students will begin to develop a portfolio of work to use for admission to a college or trade school.

**Grades 10-12**  
**0.5 credits**

**CERAMICS**  
**Semester**  
**Prerequisite - None**  
 Ceramics is designed to teach the fundamental hand building skills of clay construction. Projects consist of pinch pots, slab construction, coil pots and pieces made with drape mold techniques. Emphasis is placed on learning to recognize various stages of clay and which techniques are appropriate at each stage. Beyond sturdy construction, refinement tools and techniques will be employed.

**Grades 9-12**  
**0.5 credits**

**ADVANCED CERAMICS**  
**Semester**  
**Prerequisite- Ceramics**  
 The Advanced Ceramics course is designed to engage serious art students in more advanced ceramic techniques and projects. Students will develop and enhance skills learned in previous Ceramics class, as well as refine and experiment with new techniques and tools. Upon completion of this course, students will be able to exhibit mastery of basic hand building and wheel-thrown techniques.

**Grades 10-12**  
**0.5 credits**

**MIXED MEDIA STUDIO ARTS**  
**Semester**  
**Prerequisite-None**  
 This course is designed to allow students the opportunity to not only produce art, but also learn real-world applications for art. There will be an emphasis on visual perception, problem solving, organization, decision-making, cooperation and a multitude of other life skills. Students will challenge themselves with a variety of mixed media materials that incorporate their creativity and individuality.

**Grades 9-12**  
**0.5 credits**

## PERFORMING ARTS

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### **MUSIC PRODUCTION**

**Semester**

**Prerequisite – None**

**Grades 9-12**

**0.5 credits**

*“Listen to the beat of your own heart. Then go out and make your own music!”*

*- Unknown*

Today you can create record, mix and market your original compositions on your laptop or tablet. Whether you are a singer, music producer, audio engineer, songwriter, rapper, or just someone who appreciates good music, it is essential to have an understanding of the necessary technologies for music production.

This course is a hands-on introduction into music production, arming you with the tools you need to write, produce, and market your own music and the music of your peers. You may become one of Steel Valley High School’s top music engineers or producers. The artists you are looking to promote could be sitting right next to you in the cafeteria, or right behind you in your science class! Study the fundamental principles of producing and engineering music, learn about the music production process, including recording, editing, and mixing, and gain a greater understanding of the successful marketing techniques used in today’s music industry. Recording studio internships may be awarded to students who excel in this class.

*A commitment to the performing groups listed below means that all members are required to participate in all concerts, performances and extra rehearsals which take place outside of normal school hours. Failure to fulfill this requirement results in a reduction of grade and/or dismissal from the organization. Only excuses such as personal illness, death in the family, etc. are acceptable.*

### **CONCERT CHOIR**

**Full year**

**Prerequisite – None**

**Grades 9-12**

**1.0 credit**

Concert choir is a performing group of mixed voices. This course is designed to develop the full range of the voice, establish good vocal technique and ear training, and promote music appreciation and musicality by performing both secular and sacred choral music from early periods of history through the rock era and music of the present day. Attendance at two evening performances is required, one in December and one in the spring. The Choir may appear at community events during the year.

### **HIGH SCHOOL BAND**

**Full year**

**Prerequisite – Successful completion of one year of MS/HS band and/or audition**

**Grades 9-12**

**1.0 credit**

This course consists of a daily concert band rehearsal. Musical performance skills acquired in the middle school band are expanded and refined. Daily ensemble playing is designed to expose students to various styles of music and composers as well as degrees of technical difficulty. Attendance of all after school rehearsals and performances is mandatory. Music skills, discipline, personal responsibility, group cooperation and goal achievement, and self-confidence are emphasized.

## FAMILY CONSUMER SCIENCE

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### **FAMILY/CONSUMER SCIENCE**

**Semester**

**Prerequisite – None**

This course is designed to help students cope with the world around them and increase daily living skills. The course includes traditional teaching covering the topics of food safety, consumer economics, foods and nutrition, basic cooking skills, and the sustainable diet.

**Grades 9-12**

**0.5 credits**

### **CHILD DEVELOPMENT**

**Semester**

**Prerequisite - None**

This course is designed for students who are interested in learning about pregnancy, young children and their development. If you are considering a career which deals with children, this course provides an excellent background in current theories. Students gain an understanding of children and develop parenting skills by studying their physical, intellectual, emotional, and social development.

**Grades 9-12**

**0.5 credits**

## TECHNICAL & INFORMATIONAL SCIENCE

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### **GRAPHIC DESIGN**

**Semester**

**Prerequisite- None**

Students will learn to use professional computer graphic software such as Photoshop to change or manipulate their favorite digital images, and Illustrator to design logos, vinyl stickers, posters, and visual concepts that will communicate ideas to inform, stimulate, and captivate people. Basic designing principles will be introduced that will help students create more appealing products that are used in the real world.

**Grades9-12**

**0.5 credits**

### **CODING AND APPLICATION DESIGN**

**Semester**

**Prerequisite- None**

This course will teach students how to code and create apps using the programming language Swift. Using this fast and modern interactive code, students will acquire the capabilities to create apps for the new iPhone, iPad, Apple TV, Apple Watch, and Mac. Incorporated with the Integrated Development Environment (Xcode), students will use a source code editor that can build automation tools and debug codes to help simplify the application creation process. Resources such as platforms, tools, language, design, app frameworks, graphics and games, media, and accessories will all be available for student use to assist them in the app creation process.

**Grades9-12**

**0.5credits**

## COMPUTER APPLICATIONS

Semester

Prerequisite- None

This course will give students the knowledge to be able to navigate the variety of applications being used among various operating systems such as Windows, Google, and iOS. Word processing skills will be covered using Word, Google Docs, and Pages. Spreadsheet creation and utilization will incorporate Excel, Google Sheets, and Numbers. Presentation applications will include PowerPoint, Google Slides, and Keynote. Additional skills will incorporate daily task organization methods such as calendar applications, tasks, and other commonly used services. Students who take this class will gain a working knowledge of Microsoft Office, Google, and iOS applications.

Grade 9

0.5 credits

## 3D DESIGN

Semester

Prerequisite- None

Students will use a professional 3D design application used by real world designers. Learn and apply the skills of 2D and 3D design. Develop spatial reasoning, 3D thinking and real world problem solving skills. Create virtual 3D objects and prepare to create your own original 3D objects and then print them with a 3D printer in the next course, 3D Design Two.

Grade 9-12

0.5 credits

## ARCHITECTURAL DESIGN

Semester

Prerequisite- CADD or 3D Design

Students will use a professional 3D design application used by architects in the real world. Learn and apply the basics of architectural design as you create floor plans, 3D virtual models of residential structures and digital presentations of your work. Have the opportunity to apply your creativity and design your own house.

Grades 9-12

0.5 credits

## ROBOTICS

Semester

Prerequisite- None

This entry-level course uses a hands-on approach to introduce the basic concepts of robotics and engineering with construction materials students are already familiar with. Students will learn the basic parts of a robot and how they function. While working in groups, learners will participate in problem solving activities to design, build, and program robots to do a variety of jobs with easy-to-use software environments. Robotics is an exciting field and will continue to provide many new challenges to design and program robots that will perform a variety of tasks.

Grades 9-12

0.5 credits

## HOME MAINTENANCE

Semester

Prerequisite- None

This course provides the basic knowledge of woodworking and home repairs. Students will design and produce a product that solves a household matter such as a home improvement project. Safety procedures will be practiced while learning certain home repairs. Some of the upkeeps included will be patching holes, fixing faucets, replacing plumbing, installing lights, replacing outlets, adding wall anchors, reading meters, replacing door knobs, and other potential common repairs. Students will demonstrate machine and tool safety as they expand their basic knowledge in, but not limited to: carpentry, masonry, plumbing, drywall finishing, electricity, soldering, patching, and painting.

Grades 9-12

0.5 credits

## ENTREPRENEURSHIP AND MARKETING

Semester

Prerequisite- None

This one-semester academic/business course is designed for students who intend to study business in college, explore the possibility of owning/managing their own business, or wants to gain an understanding of business operations. The course will provide a critical understanding of the following topics: Types of businesses (sole proprietorship, partnership, and corporation), business communication, motivation and leadership, ethics, human resources, conflict and stress. Activities and assessments will promote critical thinking and decision making, while addressing the importance of using technology effectively in business

Grades 9-12

0.5 credits

## STREAM DESIGN LAB

Semester

Prerequisite- None

This course will focus on LUMA strategies in the field of Human-Centered Design to develop solutions in the service of people. Students will learn collaboration and problem-solving methods using the three design skills: *Looking, Understanding, and Making*. They will solve design challenges within their home, school, and community as a team and work with others to bring new and lasting value to the world. After developing proficiency in the LUMA design skill process and machine and lab safety, the team will use their new skill sets to plan and fabricate solutions. An example of a design challenge may be creating a charging station for the school cafeteria.

Grades 9-12

0.5 credits

## HEALTH & PHYSICAL EDUCATION

### PHYSICAL EDUCATION

Semester

Prerequisite - None.

•• Graduation Requirement ••

All students are required to participate in physical education classes. Each course is devoted to physical fitness, team sports and lifetime sports. Some of these activities may be co-educational. This course may be scheduled daily for one semester or 9 week at the discretion of the principal.

Grades 9-12

0.5 credits

### PE PARTNERS

Semester

Prerequisite- None

PE Partners is an elective course where mentoring occurs through physical activity. Students learn teamwork, problem solving, and acceptance through working with a diverse population within the high school. This course is a great option for students who are interested in the post secondary fields of education, healthcare, and counseling.

Grades 11-12

0.5 credits

**HEALTH  
Semester**

**Grade 9-12  
0.5 credits**

**Prerequisite - None      •• Graduation Requirement ••**

Good health is a most desirable aspect of total living. Students are provided with accurate and up-to-date information concerning health and how it affects the individual, home, school and community. Emphasis is placed on the importance of practicing good health habits as a way of life. *Students must take this course at some point during grades 9-12.*

**MISCELLANEOUS**

**COMMUNITY SERVICE  
30 hours**

**Grades 9-12**

**•• Graduation Requirement ••**

Steel Valley's BLAST, our acronym for "Bringing Learning and Service Together," represents a partnership with community agencies. We engage students as resources to meet community needs and improve student learning by experiencing service learning activities.

**GIFTED PROGRAM**

**Grades 9-12**

**Prerequisite - Has a GIEP**

Students eligible for the Gifted Program complete a variety of projects and explorations through enrollment in this course. It focuses both on in-depth study of selected topics and on more general explorations of compelling topics. To some extent topics identified for study in the gifted program are selected from a list of both teacher and student preferences.

**ONLINE COURSES**

**Grades 9-12**

**Online**

**credit set by Administration**

**Prerequisite - See course descriptions**

Students may enroll in web-based courses offered online with written approval from the principal. They receive the associated credit toward Steel Valley's graduation requirements. Any course fees are the responsibility of the student. Please see your counselor for a current list of course offerings.

**WORK/CAREER OPTION**

**Grades 12**

**Full year**

**1.0 - 3.0 credits**

**Prerequisite - The student's schedule must include five other courses**

This is for students who wish to develop, through on-the-job training, skills that are immediately applicable in an occupation. Any senior who desires an abbreviated schedule for purposes of employment must select Work Release on the Course Selection Sheet. No requests are honored after the first two weeks of the school year. To be considered, a student must be on track for graduation and carry a schedule of five courses. Written approval from both the parent/guardian and the employer are required for consideration. The student and parent/guardian must assume full responsibility for securing employment and all issues relative to liabilities in the workplace. Students may not be tardy or absent from school to be eligible to report to work that same day. Any violation of this provision may result in removal from the program.

**Steel Center for Career and Technical Education**

**Do you want to:**

**Prepare yourself for the workforce and postsecondary education at the same time?**

**Earn college credit while in high school?**

**Earn valuable industry certifications that make you employable right out of high school?**

**Earn high school credit while working during the school day?**

**Work side by side with friends from other high schools?**

**Be a part of something extraordinary?**

**If so, then consider making Steel Center a part of your day!**

Students who attend Steel Center can gain a labor market advantage through active learning that meets the expectations of 21<sup>st</sup> century employers and colleges. Each program will guide students through rigorous career oriented practical activities reinforced through core academic instruction. Students' employability will be further promoted by their opportunity to gain Industry Standard Certifications required by local employers. Students also have the opportunity to join a Career and Technical Student Organization where they will learn leadership and citizenship principles. For more information about the opportunities offered at Steel Center, please visit [www.steelcentertech.com](http://www.steelcentertech.com).

**PA DEPARTMENT OF EDUCATION PROGRAMS OF STUDY**

In accordance with the Carl D. Perkins Career and Technical Education Improvement Act of 2006 (Act), all Postsecondary Institutions receiving funds under the Act are required to award **college-level credit or equivalent clock hours** to a matriculated student and apply that credit toward the completion of the approved Pennsylvania Department of Education (PDE) Program of Study, leading to an industry-recognized credential or certificate **at the postsecondary level, or an associate or baccalaureate degree**. The purpose of this Agreement is to ensure that students make the transition from a school entity (**Steel Center**) to another school entity, college or university or a business/industry without experiencing delays in or duplication of learning. This Agreement sets forth the terms and conditions for the awarding of college-level credit or equivalent clock hours to students who complete the approved PDE Program of Study at a Secondary School so that those students can seamlessly continue their education in a related Program of Study at a Postsecondary Institution. This agreement outlines the general conditions between secondary and postsecondary institutions.

For information regarding services, activities, and facilities that are accessible by handicapped persons, contact the Director of Steel Center CTC at (412) 469-3200, extension 104.

**SAFETY** - The instructor has the right to ensure student safety by refusing to permit a student to work in a shop when dress and safety codes are not met. In some programs, students are required to wear industrial quality eye protection. Therefore, required school approved safety glasses are provided students. Students are required to receive safety training prior to the use of shop equipment.

**UNIFORMS** - Uniforms are required wear in Cosmetology, Food Service, Meat Cutter, Baking, and Health/Medical Assistant programs. Uniforms are paid by the student at an approximate cost of \$40 - \$90. OSHA standards must be followed concerning dress in each program area. Students are responsible to clean and maintain their uniforms. Steel Center is currently in the process of finalizing uniforms requirements for the Automotive Technician, Diesel Technician, Collision & Repair, Machine Technology, Aircraft Maintenance, HVAC, Carpentry, Building Maintenance, Electrical Construction, and Protective Services Programs. Students are also required to purchase safety shoes. Parents and sending district counselors are kept informed.

**PROGRAM COSTS** - Students enrolled in Cosmetology are expected to pay for their kit materials and uniforms at an approximate cost of \$275.00. Students in the automotive, construction, and mechanical clusters are expected to pay for uniforms and safety shoes. Non-cluster students are expected to purchase their tool kits in the Automotive Technician program. Approximate cost of the tool kit is \$130. Students in the food service cluster, nursing, and protective services are expected to pay for their uniforms and safety shoes, if needed. Students are also expected to pay for the replacement of any lost, damaged, or stolen safety glasses, tools, materials, or equipment. A student's nine week or final grade to the sending school isn't forwarded until all debts have been paid. The sending school district is notified and asked to withhold a student's diploma until the debt has been paid.

Students attend a half day for lecture and laboratory work in the technology of their choice. Some of the course offerings require the student to purchase uniforms, safety shoes, tools, cosmetology kits, etc.

**Once accepted into the Steel Center CTC program no student may withdraw without the approval of the building principal and/or guidance counselor. Students granted permission to withdraw after nine weeks may receive partial credit for SCCTC and encounter limited choices among alternate courses. Summer school may be necessary to gain the credits needed to meet graduation requirement.**

With the principal's approval, vocational students may be awarded an additional credit for Tech Math or Tech Science if the following guidelines have been met:

1. The vocational student must have Tech Math or Tech Science declared as part of his/her schedule during the first nine weeks of enrollment at SCCTC. It may **not** be added after this initial term as a means of assisting students with credit recovery.
2. The vocational student may only opt for Tech Math and/or Tech Science credit one time during his/her tenure with SCCTC and may not opt for both during the same academic year. In this regard, students should be encouraged to complete Steel Valley math and science courses and only be encouraged to pursue SCCTC credit when excessive scheduling conflicts exist and/or such credit is supported by an IEP team.

**Prerequisite – Students must earn a 2.0 QPA and maintain a 92% attendance rate unless approved by administration.**

## STEEL CENTER COURSE OFFERINGS

### Advertising & Design

**CIP Code: 10.0399, 3 credits**

**Industry Certifications Available:** Adobe Certified Associate CS6 Photoshop, InDesign, Illustrator NOCTI Skills Testing Certification

An instructional program that generally prepares individuals to apply technical knowledge and skills to plan, prepare and execute commercial and industrial visual image and print products using mechanical, electronic and digital graphic and printing equipment. Students learn desktop publishing, layout, composition, presswork and bindery as well as photography, flexography, lithography, photoengraving and other graphic arts techniques. Emphasis is on typographical layout and design using computer graphics, photo typesetting, camera and plate making, offset preparation and operation, paper cutting, ink and color preparation and dynamics and airbrush and screen printing production.

### Automotive Mechanics

**CIP Code: 47.0604, 3 credits**

**Industry Certifications Available:** Pennsylvania State Automotive Safety Inspection, Pennsylvania State Emissions Inspection and EPA, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems and drive train and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as cooling systems, drive trains, fuel system components and air conditioning and includes the use of technical repair information and the state inspection procedures.

### Baking/Pastry Chef

**CIP Code: 12.0501, 3 credits**

**Industry Certifications Available:** National Registry of Food Safety Professionals (FSM), NOCTI Skills Testing Certification

Specialized classroom and practical work experiences associated with the preparation of breads, crackers, cakes, pies, pastries and other bakery products for retail distribution, for consumption in a commercial food service establishment or for special functions. Instruction includes making, freezing and handling of bake products; decorating; counter display; and packaging of merchandise. This is a comprehensive program to prepare individuals for employment in a variety of occupations in the baking industry.

### Building Trades

**CIP Code: 46.0401, 3 credits**

**Industry Certifications Available:** National Center for Construction Education and Research (NCCER) Certification  
NOCTI Skills Testing Certification, Pennsylvania Builder's Association Certification (PBA)

An instructional program that prepares individuals to apply technical knowledge and skills to keep a building functioning, and to serve a variety of structures including commercial and industrial buildings and mobile homes. Instruction includes the basics of carpentry, millwork, plumbing, painting, glazing, electricity, plastering, welding, minor sheet metal, concreting, bricklaying, tile setting, hardware usage, heating, ventilation, waterproofing, roofing and record keeping.

### Carpentry

**CIP Code: 46.0201, 3 credits**

**Industry Certifications Available:** Builders Association of Pennsylvania, NCCER: Core Competency and Carpentry, NOCTI Skills Testing Certification, Pennsylvania Builder's Association Certification (PBA)

An instructional program that prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques.

### Collision Repair and Refinishing

**CIP Code: 47.0603, 3 credits**

**Industry Certifications Available:** I-CAR Welding, NOCTI Skills Testing Certification

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



### Computer Information Systems

**CIP Code: 52.1201, 3 credits**

**Industry Certifications Available:** Microsoft Certified Professional, CISCO Certified Entry Network Technician, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills to support the design and development of software applications, manage data systems and related mathematical statistics for analysis and forecasting of business data, process and retrieve business information, and prepare and interpret process and data models. Students will create a relational database, receive instruction in a variety of computer programming languages including writing, testing and debugging code; writing related system user documentation; demonstrating an understanding of core computer concepts to include the internet and the basic functions of business desktop applications; and analyzing common hardware, software and network processes. Students will receive instruction in business ethics and law, economics, office procedures and communications. Students will learn office safety, computer fundamentals, database administration and computer maintenance/troubleshooting.

### Cosmetology

**CIP Code: 12.0401, 3 credits**

*(Tech Prep Articulation Agreement with Douglas Education Center).*

**Industry Certifications Available:** Cosmetology License, Manicurist, Esthetician, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, dyeing, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized. Instruction is designed to qualify pupils for the licensing examination

### Culinary Arts

**CIP Code: 12.0508, 3 credits**

**Industry Certifications Available:** National Registry of Food Safety Professionals (FSM), NOCTI Skills Testing Certification

An instructional program that prepares students for employment related to institutional, commercial or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Instruction skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level.

### Electrical Construction

**CIP Code: 46.0399, 3 credits**

**Industry Certifications Available:** PA Builders Association: House Wiring, NCCER: National Center for Construction and Research Certification, NOCTI Skills Testing Certification, Pennsylvania Builder's Association Certification (PBA)

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

### Health Assistants

**CIP Code: 51.0899, 3 credits**

**Industry Certifications Available:** Pennsylvania Nurse Aide Registry, Basic Life Support Health Care Providers, NOCTI Skills Testing Certification

A cluster program with a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc.

### Heating, Air Conditioning & Refrigeration

**CIP Code: 47.0201, 3 credits**

**Industry Certifications Available:** EPA 608 Technician Certification, NCCER: National Center for Construction and Research Certification, NOCTI Skills Testing Certification, Pennsylvania Builder's Association Certification (PBA)

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

### Medium/Heavy Truck

**CIP Code: 47.0613, 3 credits**

**Industry Certifications Available:** Pennsylvania State Automotive Safety Inspection, Pennsylvania State Emissions Inspection and EPA, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses, and other commercial and industrial vehicles. Includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, preventive maintenance inspections, drive trains, HVAC systems, and auxiliary equipment installation and repair.

**Protective Services**  
**credits**

**CIP Code: 43.9999, 3**

**Industry Certifications Available:** National Incident Management System, Basic Life Support Health Care Providers, NOCTI Skills Testing Certification

An instructional program that prepares individuals to apply technical knowledge and skills required for performing entry-level duties in law enforcement, firefighting, EMT and other safety services. This program stresses the techniques, methods and procedures peculiar to the areas of criminal justice and fire protection especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication.

**Retail Food Merchandising & Production**

**CIP Code: 12.0506, 3 credits**

*(Tech Prep Articulation Agreement with Penn College of Technology – Penn State University Affiliate)*

**Industry Certifications Available:** National Registry of Food Safety Professionals (FSM)

An instructional program that prepares individuals to apply technical knowledge and skills to cut, trim and prepare carcasses and consumer-size portions of meat for sale in wholesale, retail or food-service establishments. Instruction is provided in the use of hand and power meat cutting tools, identification of and cutting techniques for different cuts of meat, dressing poultry, processing fish, counter display, refrigeration and sanitation.

**Welding**

**CIP Code: 48.0508, 3 credits**

**Industry Certifications Available:** NOCTI Skills Testing Certification, American Welding Society Certification (forthcoming)

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

## Extracurricular Activities

Steel Valley High School offers a multitude of activities, clubs and athletics for student participation. We encourage all students to be involved with as many programs in which they may have an interest. These programs were designed to reinforce the content areas via a fun, social, and informal setting. All the programs we offer are school sanctioned and provide students unique opportunities that may not be obtainable in the regular classroom setting. Our programs were created based on student interest and will continue to evolve as an integral part of our school community.

## Clubs

Clubs are co-curricular organizations which may be formed by the following methods: (1) a group of students with the same interests who then obtain a faculty sponsor, or (2) a faculty member who initiates a club, recruits members, then applies to the office for a charter.

- There are to be no secret fraternities or sororities or clubs that restrict race, creed or color; or clubs that promote a specific religious sect or political party.
- Club meetings will be called by club sponsors only, with the approval of the office.
- Clubs, organizations and classes that conduct fund-raising campaigns must secure permission from the principal.
- Clubs and organizations may advertise approved events or campaigns by means of posters, however, posters are not to be pasted or taped to painted walls. All advertisements must be removed by the sponsoring group at the conclusion of the event.

The following clubs and sports are currently recognized by the Steel Valley High School:

Art Club	Senior Class Officers	The Future Is Mine	Spanish Club
Band	French Club	National Honor Society	Student Government
Drama	History Club	Prom	Creating Value
Choir	SADD	Stand Together	

<b><u>Fall</u></b>			
Cheerleading	(Boys/Girls) Cross Country	Football(JV and Varsity)	Golf
Boys Soccer	Girls Soccer	Girls Volleyball(JV and Varsity)	
<b><u>Winter</u></b>			
Boys Basketball(JV and Varsity)	Cheerleading	Girls Basketball(JV and Varsity)	(Boys/Girls) Swimming
Wrestling (Co-Op)	Bowling	9 <sup>th</sup> Grade Boys Basketball	
<b><u>Spring</u></b>			
Baseball(JV and Varsity)	Softball	Boys Volleyball(JV and Varsity)	Jr. High Boys Volleyball