

Sharpsville Area High School

HOME OF THE SHARPSVILLE BLUE DEVILS



PROGRAM OF STUDIES 2022/2023

**Schedule planning & Course selection for
GRADES 9 through 12**

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Sharpsville Area High School

301 Blue Devil Way
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ADMINISTRATION

Superintendent:	Mr. John Vannoy	x4104
Admin. Assistant to Supt.	Mrs. Darlene Cheney	x4101
Director of Student Services	Dr. Andrew Kemper	x4110
High School Principal	Ms. Carol Houck	x1850
High School Secretary	Mrs. Deana Myers	x1001
Administrative Assistance	Mrs. Krystal Miller	x1651

SCHOOL COUNSELING DEPARTMENT

High School Counselor	Mrs. Ellen Kellar (Grades 10-12)	x1520
Middle School & 9 th Grade	Mr. Frank Galati (Grades 6-9)	x2510
Guidance Secretary	Mrs. Karen Zaggar	x1000

SHARPSVILLE SCHOOL DISTRICT MISSION STATEMENT

The mission of the Sharpsville Area School District is to provide a comprehensive education, which will meet the academic, social and emotional needs of all students to enable them to face future challenges.

Together We Can Make A Difference



ACADEMIC INFORMATION

GRADUATION REQUIREMENTS

The graduation requirements for Sharpsville Area High School are based on grades 9, 10, 11 and 12 in accordance with State Board of Regulations as well as Sharpsville Area School District requirements.

Twenty-six (26) credits in the following curriculum areas in grades 9, 10, 11 and 12 **shall be required for graduation for all students.** The required planned courses shall include the following:

Course	Number of Credits Required
English	4
Social Studies	4
Mathematics	4 <i>Must include Algebra I & Geometry</i>
Science	4 <i>Must include Biology, Chemistry, & Physics</i>
Foreign Languages	2
Health Education taken with Physical Education	1 <i>*Required in Grade 9 schedule</i>
Physical Education	<i>Planned course in each of grades 9,10,11, & 12</i>
Consumer Education / Financial Literacy	1 <i>Planned course</i> <i>Classes that offer this: Family Consumer Science/Financial Literacy, Independent Living, Consumer Math, Calculus #0515</i>
Electives	<i>The number of courses needed to earn a minimum of 26 credits.</i> <i>No course may fulfill a requirement in more than one area</i>

GRADE LEVEL STATUS

Students are given grade level status based on their successful completion of course work. Credits earned towards graduation determine grade levels.

9th grade level – 6 credits or less

10th grade level – more than 6 credits

11th grade level – more than 12 credits

12th grade level –Total of 26 credits (Minimum) to graduate with class during that school year.

CREDIT DEFICIENCIES

Students who fail a course must retake the course the following school year. This may require students to double up in English, Math, Science, and Social Studies since each content area requires no less than

four (4) credits over a student's high school career. Options will be discussed with individual student if this need occurs. Summer school via Keystone Recovery classes or cyber school may need to be an option, but is an expense to the family.

CAREER CENTER STUDENT GRADUATION REQUIREMENTS

2 Year Career Center Students- Follow the above criteria except:

- Science - three planned courses must include Biology, Chemistry and Physics
- Social Studies – three planned courses

3 Year Career Center Students will follow the above criteria except:

- Mathematics - three planned courses
- Science - three planned courses must include Biology, Chemistry and Physics
- Social Studies – two planned courses
- Foreign Language - one planned course

COMMUNITY SERVICE & SCHOOL SPONSORED ACTIVITIES

IN ADDITION TO the Graduation Requirements listed, students **must** satisfy the following:

****DUE TO CIRCUMSTANCE BEYOND THE DISTRICT'S CONTROL WE HAVE MODIFIED COMMUNITY SERVICES HOURS UNTIL FURTHER NOTICE.**

Community Service - All students **MUST** participate in 32 hours of pre-approved community service. This graduation requirement needs to be fulfilled each year in order to be successfully passed to the next grade level. **8 hours of community service needs to be completed in each grade 9, 10, 11, & 12, totaling 32 hours over 4 years.**

- If a student is in a school activity such as the musical or play, band, cheer, clubs (example chess club or art club), or one of the sports teams for the season they will receive a total of 8 hours of community service.
- Students that participate in multiple sports, clubs, etc. will **ONLY** receive a total of **8 community service hours** for the first sport team or activity (band, musical) they participate in **for the year**.
- ***Student that do not participate in any school activities will still need 8 hours of community service for the school year. Students will need to find locations that they can complete their 8 hours outside of school. Forms are available in the office.***
- If students would like to do more than the required 8 hours there will still be forms available in the office for the students to complete.
- **GRADES 11 & 12 ONLY** may use 8 hours of **PRE-APPROVED** job shadowing hours toward 8 hours of community service.

Minimum total hours needed for 2022-2023 graduation will be 32 hours.

*****In addition to these criteria, allowances will be made for students with IEP's and pre-approved activities related to school approved alternatives, or vocational educational programs.***

CLASS RANK/CALCULATION GPA

Grades are on a four-point quality point scale unless enrolled in a weighted course. See the list below for details of weighted course categories and the corresponding quality points.

GPA Calculation is as follows for all NON-WEIGHTED Courses:

PERCENT	GRADE	REGULAR COURSE POINTS
90-100	A	4
89-80	B	3
79-70	C	2
69-60	D	1
59-0	F	0

The following WEIGHTED courses will have a 1 added to the final GPA.

- University of Pittsburgh Courses
- AP Language & Composition
- AP Literature & Composition
- AP Biology
- Dual Enrollment Courses

GPA Calculation is as follows for all WEIGHTED Courses:

PERCENT	GRADE	WEIGHTED COURSE POINTS
90-100	A	5
89-80	B	4
79-70	C	3
69-60	D	2
59-0	F	1

CLASS RANK

All classes taken during the normal school day / year are included in class rank/GPA calculation. (This includes dual enrollment courses, which require pre-approval from the Principal and Guidance Counselor). Class rank is determined by ordering students based upon a cumulative GPA calculated using final grades earned for courses. Valedictorian and salutatorian will be based off of this class rank calculation. The students who are ranked first and second will hold this honor for their class at graduation.

DUAL ENROLLMENT

PLEASE READ THIS SECTION VERY CAREFULLY AND ASK QUESTIONS IF NEEDED...

This option is available to SENIORS ONLY. Students may be dual enrolled in college and in high school during their senior year when the following conditions are met:

- The student must continue to meet **all** of the graduation requirements of Sharpsville High School.
- The student will be in attendance at Sharpsville High School for a *minimum* of four (4) periods per day.
- The college level courses that are being substituted for high school electives **must** be approved by the high school principal and guidance counselor.
- Sharpsville High School students will receive **.80 credits for each successfully completed college course**. Sharpsville High School credits and approved college/university credits are not to exceed a combined total of 8 credits per year, yet maintain a minimum of 6.4 credits for the year
- The following Grading Scale will be utilized in case of grade conversions.

A+	98%	B+	88%	C+	78%
A	95%	B	85%	C	75%
A-	93%	B-	83%	C-	73%

- Only the courses taken during the hours of Sharpsville High School's school day, and during the school year, will count toward graduation and class rank. The student will be responsible for full tuition payment, prior to the start of the course. Students must be enrolled for **both** semesters beginning in the fall of their senior year.
- **If considering AP, PITT or Dual Enrollment** classes please know that there are many advantages and positive reasons to consider this pathway. One major one being that the PITT and Dual Enrollment credit transfer to most colleges and universities. Cost is the lowest you will have to pay as a parent. AP courses also can get transferred but a final test score is required for them to count as transferred credit. Also, know that the weight of the classes if a student gets a B or lower it will drop your GPA. Students need to understand that this level of course work is to get ahead for college and after graduation. **Class Rank may or may not be affected by taking a DE courses**. The focus of taking Dual Enrollment courses is to begin earning college credits at a significantly reduced cost to the student and family. The benefit of the college credit will outweigh class rank immediately following the day of graduation.

COURSE INFORMATION

COURSE SELECTION / REGISTRATION

Each year students must determine what courses they need to enroll in for the coming year. **In some cases, teachers will be asked to recommend a class level to which the student will be assigned.** Students are encouraged to take this process seriously, to consider their career plans and to discuss their choices with their parents, teachers and counselors. Final selection of courses should be made with a great deal of thought.

Counselors schedule group and individual meetings by request to aid in the process. Parent conferences are also arranged if desired. Career information is available in the guidance office.

Final choices of all the courses offered in the school form the basis of the master schedule for the coming year. Every effort is made to make it possible for each student to be scheduled for his/her first choice, **but this is not always possible.**

Courses scheduled are determined by student interest and/or local and state requirements. In cases of schedule conflicts or courses not scheduled, students will be assigned to their alternate choices if possible. Students are encouraged to select an alternate choice for any offering. **Final schedules need to be signed off by both students and parents.**

Students must schedule at least six credits plus a physical education class = 6.4 credits minimum.
This includes ALL students in dual enrollment and work release programs.

ADDING AND DROPPING COURSES

A time period will be given for parents/students to review the schedule and to request changes if necessary. **To make a change, a drop/add form will need to be secured from the Guidance Office or off of the school district high school website.**

All schedule changes will be made the week of August 15-18, 2022.

If a course is dropped after the first two weeks into the course, a withdrawal-failing grade will be recorded on the permanent record card and no credit will be given. In most cases changes will not be made in elective classes, unless extenuating circumstances exist.

PHYSICAL EDUCATION OPTION (Junior and Seniors ONLY):

This option will allow **STUDENTS IN 11TH & 12TH GRADE ONLY**, who have successfully passed the first two years of state mandated Physical Education and Health requirements, to substitute an academic course in place of a PE course. This student is **REQUIRED to be participating in at least one (1) PIAA sponsored sport/ activity** for the **scheduled PIAA contest season** that the sport is being played. **Post season, playoff games are not a part of this requirement.** If the student drops out of the PIAA sport during the regular season, they will be required to pick up a PE credit immediately, no exceptions will be made. **NO STUDY HALLS are permitted in the students' schedule. If a study hall exists on the students' schedule, then he or she would still be required to take physical education.**

COURSE DESCRIPTIONS by DEPARTMENT

Art Department

STUDIO ART 1 (DRAWING)	#0911	CREDITS 1.0
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Studio Art 1 is a disciplined-based art course designed to help students develop artistic and technical skills through art production and art appreciation. In this class students will use different media to create a variety of projects in a two-dimensional format while focusing on the elements & principles of design. Projects will include various types of drawings and paintings designed to help strengthen creative problem solving skills as well as develop artistic techniques and craftsmanship.

Grade Level: 9 – 12

STUDIO ART 2 (MIXED MEDIA)	#0912	CREDITS 1.0
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This course is designed to enrich the learning for students who have successfully completed Studio Art 1. Studio Art 2 is a more in depth study and analysis of art in a two and three dimensional format. Projects will incorporate drawing, painting, ceramics and mixed media as students further develop artistic techniques, composition and craftsmanship.

Grade Level: 10 – 12

Prerequisite: Studio Art 1

STUDIO ART 3 (INDEPENDENT ART)	#0913	CREDITS 1.0
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This course is designed to enable students to apply knowledge gained in drawing and mixed media to produce large-scale independent works. Emphasis will be placed on independent creative thinking. Students will concentrate on building a strong portfolio of works.

Grade Level: 11 – 12

Prerequisite: Studio Art 1 & Studio Art 2

ACCELERATED ART	#0914	CREDITS 1.0
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This course is designed to enable students to apply knowledge gained in Studio 1, 2, and 3 to produce large-scale independent works. Emphasis will be placed on independent creative thinking and further development of personal style/technique. Students will concentrate on building a strong portfolio of works.

Grade Level: 11 – 12

Prerequisite: Studio Art 1, Studio Art 2, & Studio Art 3

AP STUDIO ART - DRAWING	#0915	CREDITS 1.0
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This course will be offered 2023-2024 school year

Prerequisite: Complete at least 3 years of high school art with a minimum grade of 90% in each course.

Grade Level: 12

English Department

LITERATURE & COMPOSITION 1

#0101

CREDITS 1.0

Literature and Composition 1 integrates the Pennsylvania Core Standards for English Language Arts. In addition to providing students with a sequenced study of language skills and literary analysis, this course also provides students with an in-depth study of composition, grammar, and research.

Grade Level: 9

HONORS PRE-AP LITERATURE & COMPOSITION 1

#0102

CREDITS 1.0

Honors Pre-AP Literature & Composition 1 is designed for the student who is self-directed, who has demonstrated a strong work ethic, and who has excelled in Language Arts 8. Honors AP Literature & Composition 1 integrates the Pennsylvania Core Standards for English Language Arts. In addition to providing students with an in-depth study of language skills and literary analysis, this course also provides students with an intense study of composition, grammar, and research.

Grade Level: 9

Prerequisite: A grade of 90% + earned in each of the four nine weeks in Language Arts 8 and/or by recommendation of the Grade 8 Language Arts teacher.

LITERATURE & COMPOSITION 2

#0103

CREDITS 1.0

Literature & Composition 2 emphasizes proficiency in reading, writing, speaking, and listening skills, which will help prepare the student for advancement in both high school and college-level courses.

Student writing encompasses the development and mastery of both paragraph and essay structure and the research paper writing process. **Literature selection** will expose students to both fiction and non-fiction literature from a variety of genres, time periods, and cultures. Units include the study of writing, literature, vocabulary, grammar, and standardized test preparation, including the PSAT and Keystone exams. The Keystone Exam that occurs in the spring is the state mandated assessment for all 10th grade students.

Grade Level: 10 – KEYSTONE COURSE

Prerequisite: Literature & Composition 1

HONORS PRE-AP LITERATURE & COMPOSITION 2

#0104

CREDITS 1.0

Honors Pre-AP Literature & Composition curriculum is designed to provide students with the skills they will need to be successful in Honors or AP English courses in their junior and senior years. Through a close examination of classic works from various genres and time periods, students will develop their reading skills as well as their abilities to analyze texts through writing. The writing assignments, both formal and informal, are designed to prepare students for the types of writing they will encounter in high school courses and in college, as well as on the state-mandated Keystone tests. The course focuses on grammar, mechanics, usage, and vocabulary development as they apply to writing and speaking.

Grade Level: 10 – KEYSTONE COURSE

Prerequisite: Honors Pre AP – Literature & Composition 1 and requires an 80% Average be maintained.

LITERATURE & COMPOSITION 3	#0110	CREDITS 1.0
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Literature & Composition 3 traces the history and development of American literature. In doing so, this course exposes students to a variety of genres of literature including novels, plays, short stories, poetry, and nonfiction texts. This course emphasizes skills identified in the Pennsylvania Core Standards for English Language Art through content, vocabulary, and grammar concepts aligned across the curriculum.

Grade Level: 11

Prerequisite: Literature & Composition 2

SPEECH	# 0105	CREDITS .50
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This semester-long course is designed to help students develop public speaking skills and allow them to become more competent and confident public speakers. The course develops the various modes of public speaking, including group discussions, speeches, interviews, debates, and oral presentations. Students will also focus on vocabulary and etymology for career and college readiness.

Grade Level: 11 & 12

Prerequisite: Literature & Composition 2

Note: This elective course is one semester and is taken with Writing 106 the other semester.

RESEARCH WRITING	#0106	CREDITS .50
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This semester-long course is designed to augment the English curriculum and enhance student reading, writing, and research skills. Students will develop their research skills using a variety of sources, including academic databases, and express their findings in writing and through other formats. Students will learn a variety of formats, MLA & APA for example. Students will also focus on grammar, writing mechanics, and question types used in the Writing and Language sections of the SAT and ACT.

Grade Level: 11 & 12

Prerequisite: Literature & Composition 2

Note: This elective course is one semester and is taken with Speech 105 the other semester.

LITERATURE & COMPOSITION 4	#0111	CREDITS 1.0
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Literature & Composition 4 provides a foundation for analysis and discussion of universal themes, effective communication skills, literary genres, and writing techniques. This course reviews grammar and vocabulary as needed in order to polish writing skills for college and the real world. Content that will be covered will be great works of short stories, poetry, plays, nonfiction and novels, from ancient to modern times.

Grade Level: 12

Prerequisite: Literature & Composition 3

ADVANCED PLACEMENT (AP) LANGUAGE & COMPOSITION	#0112	CREDITS 1.0
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AP English Language & Composition helps students to become skilled readers of prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. Students become much more aware of the importance of various types of diction, structure, and rhetorical devices through the varied reading and writing assignments. These necessary skills are honed through a diverse reading collection of historical and contemporary nonfiction texts. At the end of the course, students are required to complete the AP English Language & Composition Exam with the possibility of earning collegiate credits.

Fee required for AP Credit (only): Payment for the AP test is \$96 for test must be submitted within the first two weeks of school. If payment is not made students will only get 1 high school credit (weighted) for the class. Students must commit to this in the first two weeks and cannot switch or change their minds after week 2.

Grade Level: 11-12

Prerequisites for Juniors & Seniors:

- *Honors Pre-AP Literature & Composition 2 with a grade average of 80% or higher.*
- *Your previous year's Literature & Composition teacher recommendation.*
- **This course has summer reading requirements; students should collect the materials before they leave school for the summer. ALL work will be submitted via Google Classroom. Communicate with the teacher, Mrs. Malovich, via Remind.**

NOTE: This course can be substituted for Literature/Composition 3 or 4.

ADVANCED PLACEMENT(AP) LITERATURE & COMPOSITION	#0113	CREDITS 1.0
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AP English Literature and Composition offers intensive preparation in literary analysis and interpretation. The students will read selected short stories, poetry, plays, and novels. The student will study the writing process and write critical essays about the literature. This course demands active reading involving the following elements: the experience of literature, the interpretation of literature, and the evaluation of literature. At the end of the course, students are required to complete the AP English Literature & Composition Exam with the possibility of earning collegiate credits.

Fee required for AP Credit (only): Payment for the AP test is \$96 for test must be submitted within the first two weeks of school. If payment is not made students will only get 1 high school credit (weighted) for the class. Students must commit to this in the first two weeks and cannot switch or change their minds after week 2.

Grade Level: 11-12

Prerequisites for Juniors & Seniors:

- *Honors Pre-AP Literature & Composition 2 with a grade average of 80% or higher.*
- *Your previous year's Literature & Composition teacher recommendation.*
- **This course has summer reading requirements; students should collect the materials before they leave school for the summer. ALL work will be submitted via Google Classroom. Communicate with the teacher, Mrs. Malovich, via Remind.**

NOTE: This course can be substituted for Literature/Composition 3 or 4.

ENGLISH SEQUENCE OF COURSES

4 CREDITS REQUIRED

Literature & Composition 1 (OR) Honors 1
Literature & Composition 2 (OR) Honors 2
Literature & Composition 3 (OR) AP Course
Literature & Composition 4 (OR) AP Course

GRADE 9

- Literature & Composition 1
- OR
- Honors Pre-AP Literature and Composition 1
(teacher recommendation required)

GRADE 10

- Literature & Composition 2
- OR
- Honors Pre-AP Literature and Composition 2
(teacher recommendation required)

GRADE 11

- Literature & Composition 3
- OR
- AP Language & Composition
- OR
- AP Literature & Composition
(teacher recommendation required for AP courses)

ELECTIVES SPEECH & WRITING

GRADE 12

- Literature & Composition 4
- OR
- AP Language & Composition
- OR
- AP Literature & Composition
(teacher recommendation required for AP courses)

Family & Consumer Science Department

FAMILY CONSUMER SCIENCE/ FINANCIAL LITERACY**#0801****CREDITS 1.0**

This Family Consumer Science course is designed to help students develop everyday living skills.

Foods – nutrition & basic food preparation skills.

Clothing – selection, care and repair of personal clothing. A machine-sewn project is required.

Childcare – children's needs and developmental milestones. Responsible care giving skills from birth to adolescence will be addressed.

Personal Development – health & wellness, developing character, goal-setting, getting along with others, decision-making and conflict resolution. Consumerism and personal finance management will be taught throughout the year.

Grade Level: 9-12

Prerequisites: None

CULINARY ARTS & ADVANCED BAKING/PASTRY ARTS**#0802****CREDITS 1.0**

This course includes one semester of Culinary Arts teaches basic cooking skills, nutrition, and food laboratory work. Food industry careers and entrepreneurship will be discussed. The second semester students taking this course will gain hands-on experience baking pastries, decorating cakes and creating other desserts. Candy making will be included as well.

Grade level: 10-12

Prerequisites: Recommended course Family & Consumer Science

NUTRITION, FOOD & CONSUMER SCIENCE CONCEPTS**# 0803****CREDITS 1.0**

Learn how to decode food labels and nutritional claims while fueling your body with the right foods for healthy living. Healthy food preparation, students conduct recipe make overs to lower fat, sugar and sodium in recipes. Students will gain firsthand experience in organic gardening by planting and maintaining a school garden. Other topics of this class will be organization, careers and vocations, and developing an earth conscious consumer in our society.

Grade level: 11-12

Prerequisites: Recommended course Family & Consumer Science, Culinary Arts and Baking, and Recommendation by the Teacher

INDEPENDENT LIVING**#0804****CREDITS 1.0**

Independent living is designed to prepare students to live on their own after high school, whether they choose college dorm life, apartment living, or the military. Students learn to manage money and properly choose a wardrobe and care for clothing. Housekeeping, home furnishings, and housing styles are studied in a housing unit. Students will learn how to plan and prepare nutritious, easy foods and meals and grocery shop. Consumer issues will be addressed in all areas. Parenting unit is included.

Grade Level: 12

Prerequisites: None

Foreign Language Department

SPANISH 1	#0601	CREDITS 1.0
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Spanish 1 is a first year language course designed to provide basic level foreign language skills. This course introduces basic vocabulary and grammar constructions. Students should be able to speak, write and read the language on a very basic level by the end of the school year. The culture of Spanish speaking countries is introduced via cultural notes, readings and videos.

Grade Level: 9-11

Prerequisites: None

SPANISH 2	#0602	CREDITS 1.0
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Building on the basic skills of Spanish 1, this course is designed to provide review of basic level foreign language skills and expansion to more in depth reading, writing and speaking skills. In addition to reading and writing in the language, both listening and speaking will be emphasized through tape activities and role-playing. More vocabulary and grammar constructions will be learned. The Culture of Spanish speaking countries is introduced via cultural notes, readings and videos.

Grade Level: 10-12

Prerequisites: Spanish 1

SPANISH 3	#0603	CREDITS 1.0
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Spanish 3 is designed for students who are interested in furthering their understanding of the Spanish language. This course introduces more vocabulary and more complex forms of grammar. More emphasis is placed upon writing and original dialogues and discussions. Comprehension of more difficult reading is practiced. The culture of Spanish speaking countries is introduced via cultural notes, readings and videos.

Grade Level: 11-12

Prerequisites: Spanish 2 with required average of 75% or higher

SPANISH 4	#0604	CREDITS 1.0
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Spanish 4 is designed to provide higher competency and fluency in Spanish. This course introduces more specific vocabulary and fine points of grammar. Extensive reading and writing in Spanish is practiced. Daily speaking of Spanish is encouraged. The culture of Spanish speaking countries is introduced via cultural notes, readings and videos.

Grade Level: 12

Prerequisites: Spanish 3 with required average of 75% or higher

Health & Physical Education Department

PHYSICAL EDUCATION 1/2/3/4	#1002	CREDITS .40
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Physical Education meets twice per week for the entire school year. Students participate in a variety of activities, both individual and team oriented. An emphasis is placed on personal fitness and lifetime participation. Skill instruction along with relevant information about each activity is provided.

Grade Level: 9, 10, 11, 12

Prerequisites: None

HEALTH	#1005	CREDITS .50
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The purpose of this required semester course is to offer students an opportunity to increase their knowledge about health. Students will have the opportunity through a variety of activities to evaluate their own health behaviors and to understand the importance of improving and maintaining positive health habits. Successful completion of this course is a graduation requirement.

Grade Level: 9 REQUIRED

Prerequisites: None

Note: This course is a semester course and flip with Steam 9 for the other half of the year.

WEIGHTLIFTING	#1006	CREDITS .60
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Weightlifting is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. This course meets 3 times per week to provide students the benefit of a comprehensive weight training program. Students will learn the basic fundamentals of weight training, strength training, overall fitness training and conditioning. Course includes both lecture and activity sessions. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness.

Grade Level: 11-12

Prerequisites: None

Math Department

ANALYSIS OF FUNCTIONS

#0503 CREDITS 1.0

Topics covered include the PA Algebra 1 Keystone Exam, Expressions, Equations, Functions, Linear Equations & Inequalities, Properties of Exponents, Quadratic Expressions & Equations. As a component of the course, the lab will reinforce topics focusing on the integration of technology and spiraling concepts throughout the school year to provide additional support and application of the concepts.

Grade Level: 9-10

Prerequisites for Grade 9 & 10:

- *Grade 9 - Passing of 8th Grade Algebra 2 with a grade >70%*
- *Grade 10 - Academic Algebra 1 with a grade of >90% Can be taken concurrently with Academic Geometry if student has >90% in Academic Geometry and a teacher recommendation*

ALGEBRA 1

#0500 CREDITS 1.0

Covers topics included in the PA Algebra 1 Keystone Exam. Completing standard high school math sequence; next course is Geometry.

Grade Level: 9-10

Prerequisite: Score on HS Math Placement Test – To Be Determined

ACADEMIC ALGEBRA 1

#0501 CREDITS 1.0

In-depth analysis of topics in Algebra preparing students for a curriculum leading to Calculus. Next course (performance based) is Analysis of Functions with a grade > 75%. OR Geometry with a grade < 75%.

Grade Level: 9-11

Prerequisite: Score on HS Math Placement Test – To Be Determined and Advanced score on Grade 8 PSSA
OR

(8th Grade) Algebra 2 with Grade <70 or score from the HS Math Placement Test

ALGEBRA 2

#0506 CREDITS 1.0

Continuation of Algebraic topics. Application of Algebra into Statistics. Completing standard high school math sequence; next course is Consumer Math

Grade Level: 10, 11, 12

Prerequisites: Geometry

GEOMETRY

#0504 CREDITS 1.0

Algebraic Applications into Geometric Concepts; Study of Applied Euclidean Geometry Topics. Completing standard high school math sequence; next course is Algebra 2 or Statistical Methods.

Grade Level: 10 – 12

Prerequisite: Algebra 1

ACADEMIC GEOMETRY	#0505	CREDITS 1.0
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Broad and in-depth study of Geometric Topics including Circles and an Introduction to Trigonometry. A focus of this course is the development of deductive reasoning through mathematical proof. A scientific calculator is required for this course.

Grade Level: 10-12

Prerequisite: Analysis of Functions with a grade > 75%.

CONSUMER MATH	#0510	CREDITS 1.0
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Applied Mathematical Concepts to Real World Situations that are important to today's Consumer.

4th course in standard high school math sequence

Grade Level: 11-12

Prerequisite: Geometry

STATISTICAL METHODS	#0511	CREDITS 1.0
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This course gives an introduction to statistical concepts in preparation for a college level statistics course.

Grade Level: 11-12

Prerequisite: Seniors: Algebra 2 with a grade > 80% and teacher recommendation

Juniors: Passing grade in Analysis of Function

PRE-CALCULUS	#0513	CREDITS 1.0
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Pre-Calculus is an in-depth study of Trigonometric Functions and their applications; more in depth analysis of some algebraic functions.

Grade Level: 11-12

Prerequisite: Academic Geometry Grade > 80% and Analysis of Functions Grade > 80%

PITT PROBABILITY & STATISTICS	#0512	CREDITS 1.0
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PITT Probability & Statistics (STAT 0200: Basic Applied Statistics) Curriculum and objectives are set by the University of Pittsburgh Statistics Department. This course is designed to provide college-bound students with an opportunity to earn college credit for a Probability and Statistics class. It is designed to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data.

Grade Level: 11-12

Prerequisites:

- *Juniors Academic Geometry with a grade of > 90% and teacher recommendation. Can be taken concurrently with Pre-Calculus.*
- *Seniors: Pre-calculus with a grade > 80%*
- *This course requires registration through the University of Pittsburgh (completed on line).*
- *Registration deadlines are rigid – failure to register on time removes the student from the course both at Sharpsville and the University of Pittsburgh.*
- *Payment required for PITT credit is approximately \$400.00 paid on line directly to the University of Pittsburgh.*

NOTE: One (1) Sharpsville credit will be earned for passing the class. Four (4) college credits are earned with a D or better on the Pitt/Sharpsville combined grade. Students will have a University of Pittsburgh Transcript after this course regardless of grade. Students will need to request from PITT the official transcript to be transferred to a college or university after graduation. The High School Guidance office does not have anything to do with the Pitt Transcript.

PITT CALCULUS**#0515****CREDITS 1.0**

PITT Calculus is designed to fill the needs of those students who expect to engage in vocations involving mathematics, engineering or science. College-bound students who expect to take one year or more of college mathematics (calculus in particular) will find this course invaluable. This course involves an in-depth study of limits, derivatives, integrals and the applications of each as well as exponential, logarithmic and trigonometric functions and conic sections. This course can be taken concurrently with PITT Physics.

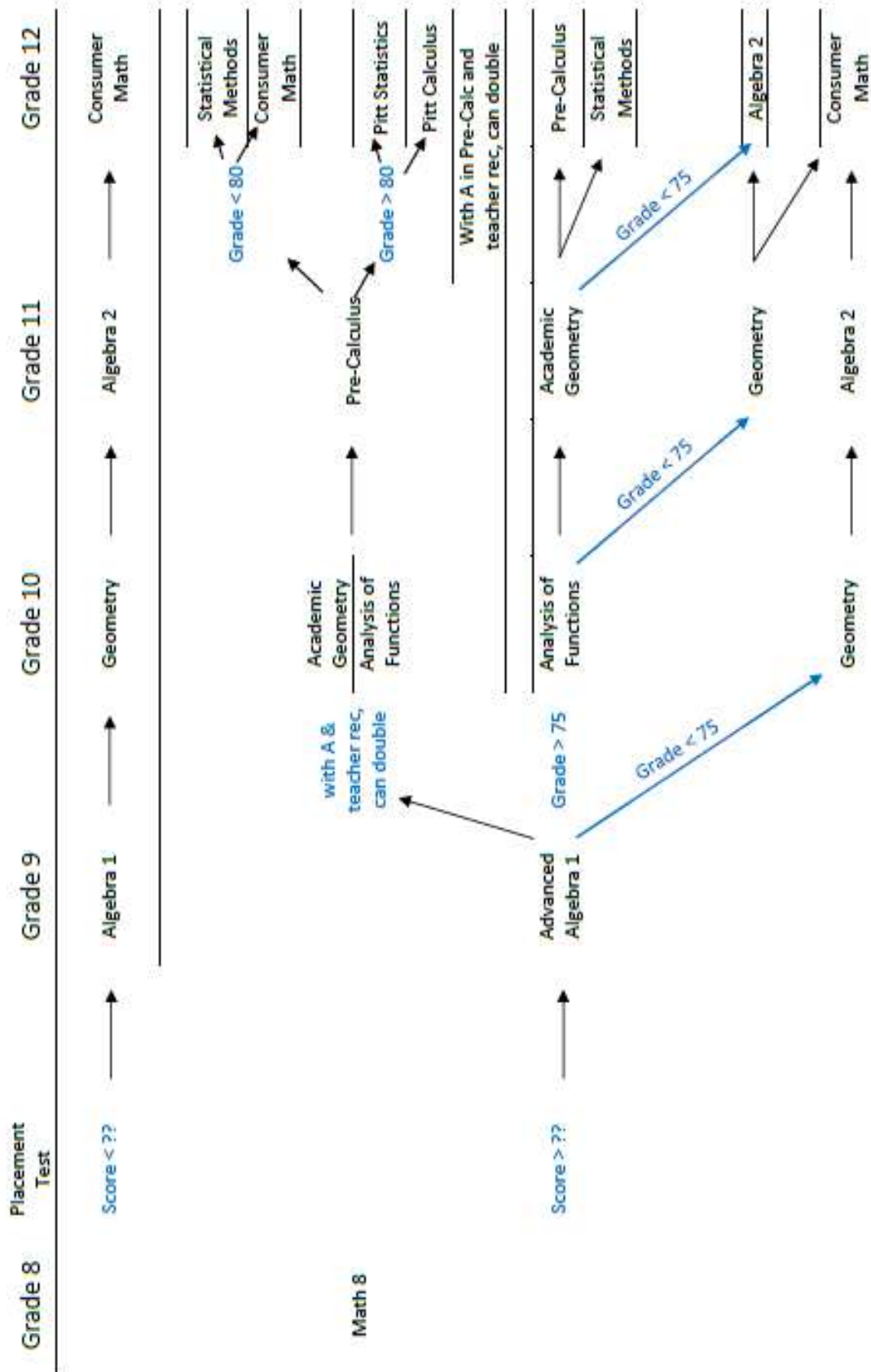
Grade Level: 11-12

Prerequisites:

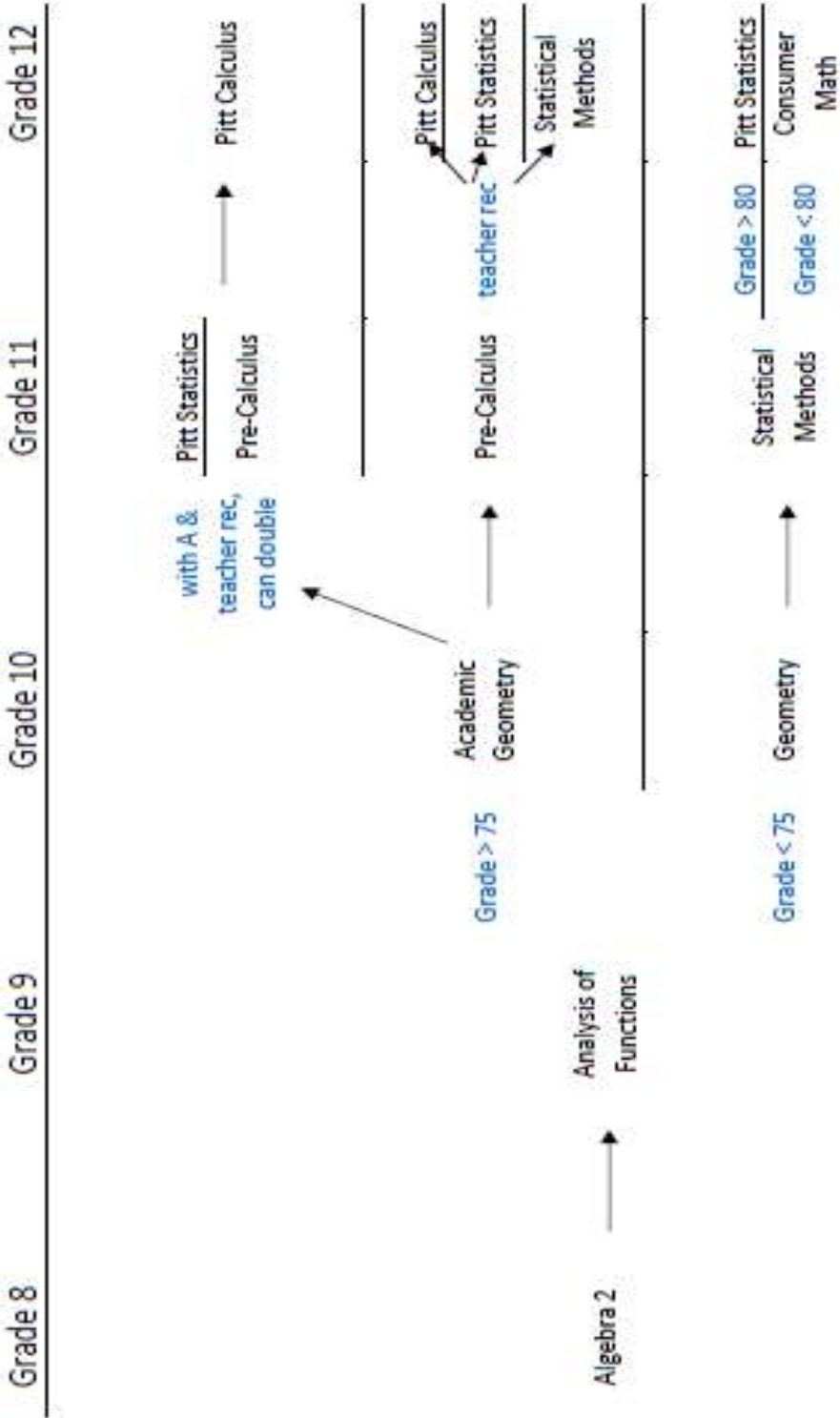
- *The University of Pittsburgh requires all prospective students to complete a pre-assessment using the ALEKS program. A minimum score as determined by the University of Pittsburgh is required for registration of this course. There is a \$25 fee for the ALEKS exam and it can be taken up to 5 times.*
- *This course requires registration through the University of Pittsburgh (completed on line).*
- *Registration deadlines are rigid – failure to register on time removes the student from the course both at Sharpsville and the University of Pittsburgh.*
- *Payment required for PITT credit is approximately \$400.00 paid on line directly to the University of Pittsburgh.*

NOTE: One (1) Sharpsville credit will be earned for passing the class. Four (4) college credits are earned with a D or better on the Pitt/Sharpsville combined grade. Students will have a University of Pittsburgh Transcript after this course regardless of grade. Students will need to request from PITT the official transcript to be transferred to a college or university after graduation. The High School Guidance office does not have anything to do with the Pitt Transcript.

SASD High School Math Sequences



8th Grade Algebra 2 Sequence coming into the High School as a Freshmen



Music Department

CONCERT CHOIR

#0905

CREDITS 1.0

Concert Choir is designed to improve the vocal abilities of each choir member, to expose students to many varieties of choral music, and give students the experience of performing in a vocal group. This course provides vocal training in breath support, enunciation, and overall vocal performing. A variety of music including Pop, Folk, Sacred, Classical and Patriotic music is covered. **In addition to performing in several concerts, this group participates in field trips, mandatory community performances, and fundraisers.**

Grade Level: 9-12

Prerequisites: None

NOTE: Grades in Concert choir are based on all mandated performances, rehearsal preparation, rehearsal participation, and any special projects that are assigned by the director. A final in choir class is given at the end of each year, and will incorporate terminology, critique of recorded performances, reflections, and other pertinent topics covered in class. This group will have a mandatory graded winter and spring concert

BAND

#0906

CREDITS 1.0

High School Concert Band is a performance-based course which explores and integrates many facets of music through the preparation, rehearsal, and performance of concert band literature. Cross-curricular projects are integrated into the course whenever possible and appropriate. Technical facility on a musical instrument, expressiveness, intonation, reading music, interpretation, elements of music theory, communication skills, how music and the arts relate to history and culture, as well as the study, preparation, and performance of concert band literature are all addressed in band. The band performs two mandatory evening concerts each year (Fall and Spring).

Grade Level: 9-12

Prerequisites: Students must play an approved instrument. Any student that does not play an approved instrument must have prior approval and signature of the director before signing up for band. Students are encouraged, but not required, to own their own instrument.

NOTE: Grades in band are based on all mandated performances, rehearsal preparation, rehearsal participation, and any special projects that are assigned by the director. A final in band class is given at the end of each year, and will incorporate terminology, critique of recorded band performances, reflections, and other pertinent topics covered in class.

Practical Arts Department

PUSHING THE LIMITS HOME MAINTENANCE**# 0809 CREDITS 1.0**

The Home Maintenance course is recommended for students who have an interest in building, home maintenance and repair. Home Maintenance covers basic house construction and use of hand and portable power tools for wood and other materials used in normal repairs. Students will be introduced to the fundamentals of circuits, electronic components, and residential/ commercial wiring. Classroom instruction is combined with hands-on experiences in performing tasks similar to those required in the home and residential facilities.

Grade Level: 10 - 12

Prerequisite: None

ADVANCED PUSHING THE LIMITS HOME MAINTENANCE**# 0811 CREDITS 1.0**

This second year of the Home Maintenance course to extend and continue to explore the interest in the skilled trade job arena. The Home Maintenance course is recommended for students who have an interest in building, home maintenance, and repair. Classroom instruction is combined with hands-on experiences in performing tasks similar to those required in the home and residential facilities.

Grade Level: 11-12

Prerequisite: None

WOOD TECHNOLOGY & FURNITURE ENGINEERING**#0810 CREDITS 1.0**

Projects for the first nine weeks are introductory in nature and emphasize the use and techniques of hand tool and select power tool operation. This course is designed to further develop the skills of the students in both engineering design and project development. Through the use of the wood technology lab, the students will be able to design and construct more detailed and advanced pieces of furniture. The second semester projects are designed to incorporate the skills learned and develop their design into an actual piece of furniture.

Grade Level: 9 – 12

Prerequisite: None

Science Department

BIOLOGY	#0400	CREDITS 1.0
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Biology is designed to introduce students to the living world. Students will explore the microscopic environment through interactions between living things and their environment. This course will integrate lab activities into the regular class time. The course is designed for anyone who does not wish to pursue a career in science beyond high school. Topics included in this course are cell biology, cellular energetics, DNA and heredity, genetics, biotechnology, evolution, and ecology. The course will conclude with comparative examination of plants and animals. Emphasis will be placed on the Pennsylvania Keystone Anchors which will be tested on the Keystone Biology exam.

Grade Level: 9

Prerequisites: None

HONORS BIOLOGY	#0401	CREDITS 1.4
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Honors Biology is an accelerated course aimed at the student who wished to pursue a career in science beyond high school. The class meets for 7 periods per week to include a separate lab period to allow further in-depth exploration of topics. There will be a greater emphasis on lab techniques, data collection, and data analysis. The content will be at a quicker pace with more depth of knowledge and application as a focus.

Grade Level: 9-10

Prerequisites: 85% or Higher in 8th grade Science with Science teacher's approval

CHEMISTRY	#0402	CREDITS 1.0
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Chemistry is designed to introduce students to the chemical world. This course will integrate lab activities into regular class time. The course is designed for anyone who does not wish to pursue a career in science or health related field beyond high school. Students will be studying a broad overview of the chemical composition of matter, its properties, and change in undergoes in the presence of other matter.

Grade Level: 10-12

Prerequisites: Biology

HONORS CHEMISTRY	#0403	CREDITS 1.4
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Honors Chemistry is an accelerated course designed for students planning an academic and /or health-related career who are strong in mathematics. Students will be studying the chemical composition of matter, its properties, and the change matter undergoes in the presence of other matter. Laboratory methods and skills and problem-solving skills will be developed during the course, during a separate laboratory period. This course moves at a rapid pace to prepare students for their next level of chemistry.

Grade Level: 10-12

Prerequisites: 90% or higher in Biology, completion of Academic Algebra 1

UNIVERSITY OF PITT CHEMISTRY**#0404****CREDITS 1.6**

This course will be offered 2023-2024 school year

Grade Level: 11-12

Prerequisites: 80% Chemistry, Algebra 2 and Honors Physics (previously or concurrently)

PHYSICS**#0405****CREDITS 1.0**

Physics is designed to familiarize students with physics concepts and to teach students how to apply these physical concepts to practical situations. Mathematical applications include Algebra I concepts of solving and graphing linear equations. This course is recommended for those students who want to learn more about physics but who are not planning on attending a four-year college in a science-related field. Students in Physics will learn how physics applies to their everyday life and how to incorporate problem-solving techniques to deal with their environment. Topics covered include motion, forces, energy, momentum, rotational motion, electricity, wave motion, and sound.

Grade Level: 10-12

Prerequisites: Biology, Algebra 1

HONORS PHYSICS**#0406****CREDITS 1.4**

Honors Physics is an accelerated course in physics recommended for students who plan on pursuing a science-related career after high school. Mathematical applications include Algebra concepts of solving and graphing linear equations as well as trigonometry concepts of the trigonometric functions. Physics introduces fundamental concepts necessary for success in Advanced Placement and college-level science course. Students in Honors Physics will study typical concepts learned in an introductory physics course with more emphasis placed on problem-solving and laboratory work. Topics covered in the class include measurement, one-dimensional motion, forces, projectile and circular motion, torque and rotational dynamics, momentum conservation, energy and its conservation, mechanical waves and sound, physical optics, and electricity. Laboratory methods and skills, along with various problem-solving techniques, will be developed.

Grade Level: 10-12

Prerequisites: Academic Geometry

INTRODUCTION TO ASTROPHYSICS**#0421****CREDITS 1.0**

Students in Introduction to Astrophysics will learn how physics is applied to the composition and interaction of celestial objects, including stars, planets, galaxies, nebulae, and black holes. Topics introduced in the class will include physical properties and composition of celestial bodies, planetary motion, gravitation, energy transfer, electromagnetic waves, optics, and nuclear fission/fusion. The class will also explore the history, current programs, and future possibilities of space observation (telescopes) and space exploration (travel and colonization). Algebra concepts will be used when applicable.

Grade Level: 11-12

Prerequisites: Physics or Honors Physics

HUMAN ANATOMY & PHYSIOLOGY I**#0407****CREDITS 1.0**

Human Anatomy and Physiology is an accelerated course designed for students planning an academic and/or health related career. This course incorporates principles of biology and chemistry as they relate to the interrelationships of body organ systems and their structure and function. Students in this course will study Latin roots and stems, cell biology, tissues, and the following systems at both the anatomical and physiological level: integumentary, skeletal, muscular and cardiovascular systems. Dissection will be a required part of this course.

Grade Level: 11-12

Prerequisites: Biology, Chemistry.

HUMAN ANATOMY & PHYSIOLOGY II**#0409****CREDITS 1.0**

This course is a continuation of Human Anatomy and Physiology I. Students must successfully complete Human Anatomy and Physiology I in order to enroll in this course. This course will continue where the previous course left off and will focus on the following systems: nervous, lymphatic, immune, respiratory, digestive and reproductive systems. Dissection will be a required part of this course.

Grade Level: 11-12

Prerequisites: Human Anatomy & Physiology I, Biology, Chemistry.

Note: *Students enrolled in Human Anatomy & physiology for the 2021-2022 school year will be eligible to enroll in Human Anatomy & Physiology II for the 2022-2023 school year.*

ENVIRONMENTAL SCIENCE**#0408****CREDITS 1.0**

Environmental Science is a course designed for the student interested in the environment but who lacks a strong mathematical background. Students in Environmental Science will investigate the interdependence of human society and the physical and chemical environment. Consideration will be given to the environmental problems currently facing the earth as well as possible solutions to these problems. Basic ecology principles will be covered and expanded to relate environmental problems to ecological concepts.

Grade Level: 10-12

Prerequisites: Biology

FORENSIC SCIENCE**#0410****CREDITS 1.0**

Forensic Science is a course designed for students who are interested in forensic science/criminal justice but lack a strong mathematics and science background. This course will inform students about different forensics techniques through famous cases and other crime situations.

Grade Level: 11-12

Prerequisites: Biology

HONORS FORENSIC SCIENCE**#0411****CREDITS 1.4**

Honors Forensic Science is an advanced introductory course in forensic application of science and technology. This course is designed for students who are interested in forensic science/criminal justice who have a strong mathematical and science background. This course will cover topics such as toxicology, serology, DNA analysis, fingerprinting and more.

Grade Level: 11-12
Prerequisites: Biology, Chemistry (full year), Academic Geometry

AP BIOLOGY

#0413**CREDITS 1.6**

NOTE: This course is a rotation course it will be offered again in the 2024-2025 school year.

The Advanced Placement Biology course is designed to be the equivalent of the biology course taken by first year college science majors. This course fulfills the college laboratory science requirement. Students in this course will have the opportunity to attain a more in-depth understanding of biology concepts and competence in dealing with biological problems. This course will differ from the first year of biology with respect to the kind of textbook used, emphasis on understanding biological concepts, and the complex nature of experiments done in the laboratory. The topics in this course will include: the chemistry of life, cell biology, cellular energetic, heredity, molecular genetics, evolutionary biology, diversity of organisms, animal/plant structure and function, and ecology. Problem solving; higher-order thinking; the scientific method; techniques of research and biotechnology; the use of scientific literature; and data collection, manipulation, and analysis will be the focus of the laboratory experience. Dissection will be a required part of this course.

Grade Level: 11-12
Prerequisites: Accelerated Academic Biology, Chemistry, recommended Human Anatomy & Physiology

Fees Required: Payment of approximately \$96.00 for the AP test must be submitted within the first two weeks of school, or the student will ONLY receive high school weighted credit for the class. Students are required to complete all tests and labs regardless of payment status.

UNIVERSITY OF PITT PHYSICS

#0420**CREDITS 1.6**

This course is designed to fill the needs of those students who are planning vocations involving physics, engineering or science. College-bound students who expect to take one year or more of college physics (particularly a calculus-based physics) will find this course invaluable. This course involves an in-depth study of motion, vectors, forces, work and energy, systems of particles, rotation, gravitation, oscillations, mechanical waves and sound. Calculus concepts will be applied in these areas of study.

Grade Level: 12
Prerequisites: Honors Physics, PITT Calculus (previously or concurrently)

Fee Required: Approximately \$400.00 must be submitted within the first two weeks of school, or the student will ONLY receive high school weighted credit for the class. Students are required to complete all tests and labs regardless of payment status.

Note: One (1.6) Sharpsville credit will be earned for passing the class. Four (4) college credits are earned with a D or better on the Pitt/Sharpsville combined grade. Students will have a University of Pittsburgh Transcript after this course regardless of grade.

SCIENCE SEQUENCE OF COURSES

4 CREDITS REQUIRED

Biology
Chemistry/ Honors Chemistry
Physics/ Honors Physics
Student choice

GRADE 9

- Biology
- Honors Biology w/Lab (requires 85% or higher in 8th grade Science and Science teacher approval)

GRADE 10

- Chemistry
- Physics
- Honors Chemistry
- Honors Physics

GRADE 11 & 12

- Chemistry
- Physics
- Honors Chemistry
- Honors Physics
- Forensics
- Honors Forensics w/ Lab
- Environmental Science
- Human Anatomy & Physiology I
- Human Anatomy & Physiology II
- Intro to Astrophysics
- PITT Chemistry (Offered every other year 2023-2024, 2025-2026, 2027-2028)
- PITT Physics
- AP Biology (Offered every other year 2022-2023, 2024-2025, 2026-2027)

**Students may choose to take two course from this list during Grades 11 & 12.

Students entering post-secondary science related fields are encouraged to schedule more than one science class per year (as their schedule permits and prerequisite courses are completed).

Social Studies Department

U.S. HISTORY	#0301	CREDITS 1.0
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This course is designed to acquaint students with United States history from the post-Civil War era to the present day, with an emphasis on twentieth century events. Major units include: The roots of a modern nation, the new era of the twenties, the Depression and the New Deal, World War II, civil rights and the Cold War Era, and new challenges of the present.

Grade Level: 9
Prerequisite: None

20TH CENTURY WORLD HISTORY	#0302	CREDITS 1.0
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This course is constructed to provide an overview of major world events from the period of the industrial era through the present day, with much emphasis on the twentieth century. This is a survey course of world history that focuses on the development of the world during and after the industrial era and will discuss major topics such as: industrialization, the birth of nationalism, the awakening of class consciousness, imperialism, the causes of world wars, the era of the cold war and other major portions of history.

Grade Level: 10
Prerequisite: None

U.S. GOVERNMENT	#0303	CREDITS 1.0
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U.S. Government will familiarize the student with the workings of government, rights and duties of citizens, and how to actively participate in the political process. Students will be familiarized with the origins and history of American government, and the foundational ideas from which the Constitution is built upon. The course will include units on federalism, the branches of government, voter behavior, and the role and rights that American citizenship entails.

Grade Level: 11-12
Prerequisite: None

PSYCHOLOGY	#0304	CREDITS 1.0
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Psychology is an introductory survey of the study of psychology with an emphasis on the practical application of research. This course is designed to acquaint students with the basic concepts that drive human behavior. Students will be introduced to the concepts of consciousness, development, physiology, learning and memory, and psychological disorders.

Grade Level: 12
Prerequisite: None

PITT AMERICAN POLITICS	#0305	CREDITS 1.0
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This is an introductory course in American Politics. The course is suitable for beginning political science students or students who wish to complete the course as part of a "general education" requirement. The purpose of the course is to teach students both about the American political system and about

broad concepts social scientists use to study politics. Students will study a range of topics including the philosophical influences on the founding fathers, the Declaration of Independence, Institutional Design and Development, The Constitution, Civil Rights, Civil Liberties, Congress, the Presidency, Judiciary, Public Opinion, Voting Elections, and Broader Concepts/Problems including Delegation and Principal-Agent problems as well as Coordination/Collective Action.

Fee Required: Payment of approximately \$225.00 (\$75.00/college credit) must be submitted within the first two weeks of school, or the student will be withdrawn from class.

Grade Level: 11-12

Prerequisites: 20th Century World History, US History

Note: One (1) Sharpsville credit will be earned for passing the class. Three (3) college credits are earned with a D or better on the Pitt/Sharpsville combined grade. Students will have a University of Pittsburgh Transcript after this course regardless of grade.

CURRENT EVENTS

#0306 CREDITS 1.0

This elective course is designed to introduce the students to the study of current events and the impact they have upon their lives. This class will use American and foreign media sources to track, discuss, and analyze current news events. Local news and history will be highlighted on a regular basis. Students are required to **participate every day** by keeping up with the news, researching various topics, and discussing them in class.

Grade Level: 10-12

Prerequisite: None

Note: This course cannot be substituted for US History, 20th Century World History, US Government and / or Psychology. This course is an elective and can only be taken one in the 4 years of high school.

PITT PSYCHOLOGY

#0307 CREDITS 1.0

PITT Psychology is designed to acquaint students with the basic concepts that drive human behavior. The objective of this course is to provide students with an overview of the diverse field of psychology, and an appreciation of the way that behavior and mental processes can be studied scientifically

Fee Required: Payment of approximately \$225.00 (\$75.00/ college credit) must be submitted within the first two weeks of school, or the student will be withdrawn from class.

Grade Level: 11-12

Prerequisites: Psychology (University of Pittsburgh) Open to seniors only who have earned an A as their final grade in previous year social studies course and teacher recommendation. This class can be taken in lieu of the senior Psychology course.

Note: One (1) Sharpsville credit will be earned for passing the class. Three (3) college credits are earned with a D or better on the Pitt/Sharpsville combined grade. Students will have a University of Pittsburgh Transcript after this course regardless of grades

SOCIAL STUDIES SEQUENCE OF COURSES

4 CREDITS REQUIRED

US History
20th Century World History
US Government
Psychology/PITT Psychology

GRADE 9

- US History (required)

GRADE 10

- 20TH Century World History (required)

GRADE 12

- Psychology (required)
- PITT Psychology (can replace Psychology with teacher recommendation)
- PITT Politics - elective
(Can be taken if not taken in 11th Grade)

GRADE 11

- US Government (required)
- PITT Politics-elective

- Current Event – ***Elective Credit only*** but can be taken in Grades 10, 11, or 12 along with the required course.

Technology Education Department

STEAM 9**#0810 CREDITS .50**

In this course students will engage collaboratively in applying their knowledge of Science, Technology, Engineering, Arts and Math through various problem-based learning opportunities. Students will learn academic and career life skills that are reality-based and personally relevant to the student. STEAM 9 will provide students' hands-on experiences.

Grade Level: 9 REQUIRED

Prerequisite: None

Note: This course is a semester course and flip with Health for the other half of the year

COMPUTER SCIENCE ESSENTIALS**#0703 CREDITS .60**

With emphasis on computational thinking and collaboration, Computer Science Essentials will expose students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. In this year-long course, students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create usable mobile apps and develop websites, and learn how to make computers work together to put their design into practice. They will apply computational thinking practices, develop their vocabulary, and collaborate the same way that computing professionals do to create products that address topics and problems that are important to them.

Grade Level: 10

Prerequisite: None

Special Programming Department

COMMUNITY BASED EDUCATION

Sharpsville High School's Community Based Education program partners with various businesses throughout the Shenango Valley to enable students to gain firsthand knowledge of careers and vocational tasks. Students are able to observe and obtain valuable work related skills including time management, on the job responsibility, work related habits and positive social skills.

ENTREPRENEURSHIP ACADEMY @ LINDEN POINT

#1300 CREDITS 3.0

Participation in the Entrepreneurship Academy is to help students develop 21st century skills through a project-based entrepreneurial experience for high school seniors. This will be accomplished by blending core academic standards with customized learning opportunities in the fields of Science, Technology, Engineering, Arts and Mathematics (STEAM) through collaborations with K12 educators, higher education and business partners.

Grade: 12

Prerequisite: Application must be completed with faculty/adult recommendations in order to be recommended to participate in the Entrepreneurship Academy. All students must have passed all of their required coursework prior to beginning the Entrepreneurship Academy. Transportation will be the responsibility of the student at their own expense.

MERCER COUNTY CAREER CENTER

#1200 CREDITS 3.0

Students learn from those directly in the fields at the Mercer County Career Center in Mercer, Pennsylvania. Students will spend half of their academic day at the Career Center and half of their day at Sharpsville Area High School. Students may attend in the morning.

Grades 10-12

Prerequisites: Students must maintain good academic standing and attendance to remain in the Mercer County Career Center Program. Complete required community service hours for graduation.

Mercer County Career Center Course Descriptions

AUTO BODY: The automotive industry has a rich heritage and exciting future. That future is reflected in Auto Body Technology, one of the fastest growing and most innovative fields in the industry. You use cutting edge technology based on Automotive Service Excellence (ASE) Standards as you estimate damage, replace parts and refinish/detail as you prepare a vehicle for customer delivery. Learning welding, plastic repair, refinishing/painting creates career opportunities in manufacturing, fabrication as well as auto body technology. Instruction takes place in a safe, clean, well-equipped shop.

AUTO MECHANICS: The Auto Mechanics program is designed to provide the students with entry level skills and knowledge needed to diagnose and repair today's modern vehicles. The student's training is based on Automotive Service Excellence Standards (ASE) and includes the following: Braking systems, steering and suspension systems, engine performance, electrical and electronic systems, automatic and manual transmissions, HVAC (heating ventilation and air conditioning), and engine repair. Standard automotive business practices are also studied including: completing and calculating work orders, time

cards, and parts invoices. The program also provides the students the opportunity to earn their Pennsylvania State Inspection license and their Northern Region Emission Inspector license. Students are able to work on trainer vehicles, customer vehicles, and their own vehicles.

CARPENTRY: Carpenters literally build the future by constructing and remodeling houses, apartments, and commercial buildings. Join the Carpentry Team and learn to build like a pro! Use computers and architectural design software to draw floor plans and renderings. Construct a house using the latest tools. Visit area work sites, meet professional builders, and visit the Carpenters Union to learn how to earn your journeyman's card. Visit colleges and learn about advanced degrees in Management and Engineering. Learn how experienced Carpenters advance into supervisory positions or own their own business. Plan your career in an industry that offers high wages, excellent job opportunities, and employs over 8.3 million people.

COMPUTER INFORMATION TECHNOLOGY: This course will prepare the students to obtain entry-level employment and/or provides the foundation for post-secondary success. The program's curriculum enables the students to develop a basic level of knowledge through classroom theory lessons and acquire a core set of technical skills by applying learned knowledge in hands-on lab experiences. Classroom lessons include lectures, reading and writing assignments, demonstrations, and individual and group activities. The program will provide students experience in the administration and support of computer networks, which includes: user and group management, server security, network sharing, operating systems, user and workstation security, help desk support, computer repair and remote access. Students will focus their study on network technologies, network devices, network management, tools and security. Computer Information Technology students will be expected to read and interpret complex instructions, technical literature and solve a variety of technical problems.

COMPUTER PROGRAMMING: Computer Programming prepares students for either entry-level employment in a variety of rapidly growing computer careers or continuing education at the post-secondary level. Students will be introduced to many computer concepts including the following: flowcharting, structured programming for the Internet, games programming, and the programming languages COBOL, SQL, and Visual Basic. Students will have the opportunity to explore a variety of programming languages, complete projects and pursue industry recognized certifications. The skills learned in this program serve as a foundation needed to pursue postsecondary degrees leading to a career as a software developer, programmer, application developer or game designer.

COSMETOLOGY: Experience the world of beauty and fashion through the Cosmetology program. Use cutting edge techniques to deliver precision haircuts, perms, chemical relaxing, braiding, manicures, facials and hair color treatments. Two days a week you will master your skills on customers in our student operated salon. Students successfully completing 1250 hours of instruction are eligible for licensure from the Pennsylvania State Board of Cosmetology.

CULINARY ARTS: The course is designed to give students the basic skills needed to start a career in the restaurant and hospitality industry. You will create foods, from appetizers to desserts, in our professionally equipped kitchen and bakery. The curriculum and professional equipment is designed to develop skills in all facets of the food service industry and equip students for immediate employment or post high school training.

DIESEL MECHANICS: Designed to help students develop "hands-on" skills and knowledge needed to enter the rewarding field of the diesel repair industry. Learn the skills needed to pursue careers in a

multitude of areas, including but not limited to: welding, hydraulics, pneumatics, electronics, as well as “bumper to bumper” diesel repair. In addition to classroom instruction, students diagnose, service, and repair all aspects of diesel related equipment. This is accomplished using modern “high-tech” scan tools and personal computer interfaces. Diesel engines have become more fuel efficient, lighter, quieter, and environmentally friendly. These factors have created an increased demand for talented and skilled technicians. This program has a long proud history of student success and service to the community.

EARLY CHILDHOOD EDUCATION: Learn the skills needed to work with young children, through working in a fully functional preschool. Obtain infant and child CPR and First Aid Certification. Earn experience hours toward a Child Development Associate (CDA) Ready Certification. Prepare for postsecondary schooling in the education field or prepare to enter the workforce in a child care center or as a family child care provider.

ENTREPRENEURIAL STUDIES: Get prepared for both the workforce and to continue post-secondary education. Learn how to use common business software applications and maintain a business’s image. Show your innovation and creativity but using state-of-the-art graphic technology. Use on-line design and business simulations both in the classroom and virtually. Work with local companies to create new ideas, designs and products. Students will participate in several business simulations, run and market a school store, and visit innovative businesses. As seniors, students participate in the Virtual Enterprise International program where they get to develop and market their own product.

HEALTH CARE CAREERS: The Health Care Career Program is designed to allow students the ability to gain a preparatory understanding of the health care environment. Through career exploration, students are able to make an informed career decision prior to postsecondary education. The course focuses on anatomy, physiology, and medical terminology. Certifications include American Heart health Care Provider (CPR/AED, American Heart First Aide, and American Heart Pediatric First Aide, and PA Nurse Aide Registration) Clinical experience will be conducted at Nursing facilities.

LOGISTICS AND MATERIALS MANAGEMENT: Logistics and Materials Management is designed to prepare individuals for entry level employment in this industry. Students will learn and perform logistical functions associated with receiving, storing, shipping goods, and the various systems and record keeping for supply chain management.

Students with good attention to detail who enjoy a fast-paced, hands-on, physical workplace would be successful in this program. The curriculum provides instruction in the use of powered material, handling equipment, and OSHA safety and ergonomics. Supply chain management, automated inventory control systems, purchasing, receiving, order selections, packaging, and shipping methods are presented. Academic subjects include business mathematics and communications. The course includes job retention skills and customer relations.

PRECISION PRODUCTION METALS: This course is designed for students to gain knowledge and skills with an emphasis in machining, welding, sheet metal fabrication, hydraulics and pneumatics. Areas are taught through hands-on assignments to develop technical skills. Through a variety of projects, students will be able to plan, setup, operate machines, as well as to manufacture and assemble metals. National Institute for Metalworking Skills (NIMS) certification is available to those enrolled in Precision Production Metals.

WELDING: The welding program focuses on the instruction of many industry-specific types of welding, brazing, and soldering techniques. Students will learn Arc, Mig, Tig, Flux-core, and Oxy-fuel Welding. Also students will receive instruction in Plasma and Oxy-Fuel cutting of metals. Blue-print reading will be taught so students can learn to produce real-world products and parts. American Welding Society standards are integrated into this welding curriculum

For further information on Mercer County Career Center programs and services, please visit our web-site www.mccc.tec.pa.us