

Sharpsville Area High School

HOME OF THE SHARPSVILLE BLUE DEVILS



PROGRAM OF STUDIES 2021/2022

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

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Sharpsville Area High School

301 Blue Devil Way
Sharpsville, PA 16150

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ADMINISTRATION

Superintendent:	Mr. John Vannoy	x4104
Admin. Assistant to Supt.	Mrs. Darlene Cheney	x4101
Director of Student Services	Mr. Scott McCaskey	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) units 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 required in each of the grades 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</i>
Electives	<i>The number of courses needed to earn a minimum of 26 units.</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 – enough scheduled credits 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, equaling 32 hours.**

- If a student is in a school activity such as the musical or play, band, cheer 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 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 2021-2022 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 (various course are offered every other year)
- AP Language & Composition
- AP Literature & Composition
- AP Biology (Course offered every other year, noted in the course catalog)
- AP Studio Art (Course offered every other year, noted in the course catalog)
- 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

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 will award .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.

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 (**signed by students and parents**) 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.

Students must schedule at least six credits plus a physical education class = 6.4 credits.
This includes 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 16-20, 2021.

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, 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. 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 art. Projects will include various types of drawings, paintings, printmaking and mixed media 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 Art1. Studio Art2 is a more in depth study and analysis of art in a two and three dimensional format. Projects will incorporate drawing, painting, printmaking, ceramics and mixed media as students further develop artistic techniques, composition and craftsmanship.

Prerequisite: Studio Art 1

Grade Level: 10 – 12

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.

Prerequisite: Studio Art 1 & Studio Art 2

Grade Level: 11 – 12

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.

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

Grade Level: 11 – 12

AP STUDIO ART - DRAWING	#0915	CREDITS 1.0
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This course will be offered 2022-2023 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
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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
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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
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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
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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

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: Payment for the AP test is \$94 this must be submitted within the first two weeks of school, or the student will be withdrawn from class.

Grade Level: 11-12

Prerequisites for Juniors & Seniors:

- *Honors Lit. & Comp. 2 or Lit. & Comp 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, Ms. Whipple, via Remind.**

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: Payment for the AP test is \$94 this must be submitted within the first two weeks of school, or the student will be withdrawn from class.

Grade Level: 11-12

Prerequisites for Juniors & Seniors:

- *Honors Lit. & Comp. 2 or Lit. & Comp 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, Ms. Whipple, via Remind.**

UNIVERSITY OF PITTSBURGH ARGUMENT

#0114 CREDITS 1.0

This introductory elective course examines the fundamentals of argument and promotes proficiency in the application of elementary debating. CHS Argument explores the foundations of argument construction, support, and refutation. It also develops argument skill through in class activities including individual debates, team debates, and role play. The course includes a field trip to the annual CHS Pitt Argument Forum. There is a written as well as oral component to this course.

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

Grade Level: 11-12

Prerequisites: Recommendation of previous year's Literature & Composition 3 Teacher or AP Teacher

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.

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)

**PITT Argument

Elective credit for
Grades 11 or 12

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
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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	#0802	CREDITS .50
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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.

Grade level: 10-12
Prerequisites: Recommended course Family & Consumer Science

ADVANCED BAKING & PASTRY ARTS	#0803	CREDITS .50
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This course includes one semester of *Advanced Baking & Pastry Arts*. 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: Culinary Arts

INDEPENDENT LIVING	#0804	CREDITS 1.0
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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 / HEALTH	#1001	CREDITS 1.0
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Physical Education 1 will meet twice per week and alternate with Health, meeting 3 times per week. It is a graded course based on participation, skill and knowledge. 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. Successful completion of this health course is a graduation requirement.

Grade Level: 9
Prerequisites: None

PHYSICAL EDUCATION 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. Physical Education is a state required course yearly.

Grade Level: 10,11,12
Prerequisites: None

HEALTH	#1005	CREDITS .60
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The purpose of this required 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: 10-11
Prerequisites: None

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
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In depth study of the functions of Algebra preparing students for a curriculum leading to Calculus

Grade Level: 9-10

Prerequisite for 9th & 10th Grade Students:

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

ALGEBRA 1	#0500	CREDITS 1.0
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Topics covered include the PA Algebra 1 Keystone Exam, Expressions, Equations, Functions, Linear Equations & Inequalities, Properties of Exponents, Quadratic Expressions & Equations.

Grade Level: 9-10

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

ALGEBRA 1 LAB	#0507	CREDITS 1.0
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****Last year to offer (2021-2022) for students who received below a 60% final grade in Algebra 1 with a lab during the 2020-2021 school year.**

The ALEKS computer program will be utilized with the Algebra 1 class. Topics focusing on providing additional support and application of the concepts in Algebra 1.

Grade Level: 10

Prerequisite: Algebra 1 with lab from 2020-2021 school year

ACADEMIC ALGEBRA 1	#0501	CREDITS 1.0
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In-depth analysis of topics in Algebra preparing students for a curriculum leading to Calculus

This course will cover a wide range of topics, including graphing in the coordinate plane, writing linear equations, solving equations for the missing variables, systems of equations, polynomials and factoring, properties of real numbers, exponents, and integrated concepts.

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 a grade of < 70%

ALGEBRA 2	#0506	CREDITS 1.0
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Continuation of Algebraic topics. Application of Algebra into Statistics. Algebra 2 is the study of functions. Practical application problems show connections between course content and other fields while written practice provides reinforcement of concepts and extensions of communication skills. This course is sequential to Algebra 1.

Grade Level: 10 - 12

Prerequisites: Geometry

ACADEMIC ALGEBRA 2	#0502	CREDITS 1.0
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**One year only (2021-2022) for students who passed Academic Algebra 1 in 9th grade during the 2020-2021 school year. Academic Algebra 2 is organized around families of functions including Polynomial Functions and Rational Functions.

Grade Level: 10, 11

Prerequisites: Completion of Academic Algebra 1 with a 70% or higher.

GEOMETRY	#0504	CREDITS 1.0
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This course covers Algebraic Applications into Geometric Concepts. Study of Applied Euclidean Geometry Topics. Students will use the concepts learned to solve various problems.

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: Academic Algebra 2 with a 70% or higher

CONSUMER MATH	#0510	CREDITS 1.0
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This course is designed to give students real world applications of mathematics concepts to real world situation important to today's consumers.

Grade Level: 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. Statistical Methods is taught using an activity-based approach.

Grade Level: 11-12

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

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%

CALCULUS	#0514	CREDITS 1.0
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Concepts of Calculus involving Limits, Derivatives, Riemann Sums, Integrals and their applications. This course fills the needs for students who expect to engage in vocations involving business, finance, economics, or other social sciences.

Grade Level: 11-12

Prerequisite: Algebra 3 / Trigonometry

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 is \$400.00 paid on line directly to the University of Pittsburgh.*
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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*

PITT CALCULUS	#0515	CREDITS 1.0
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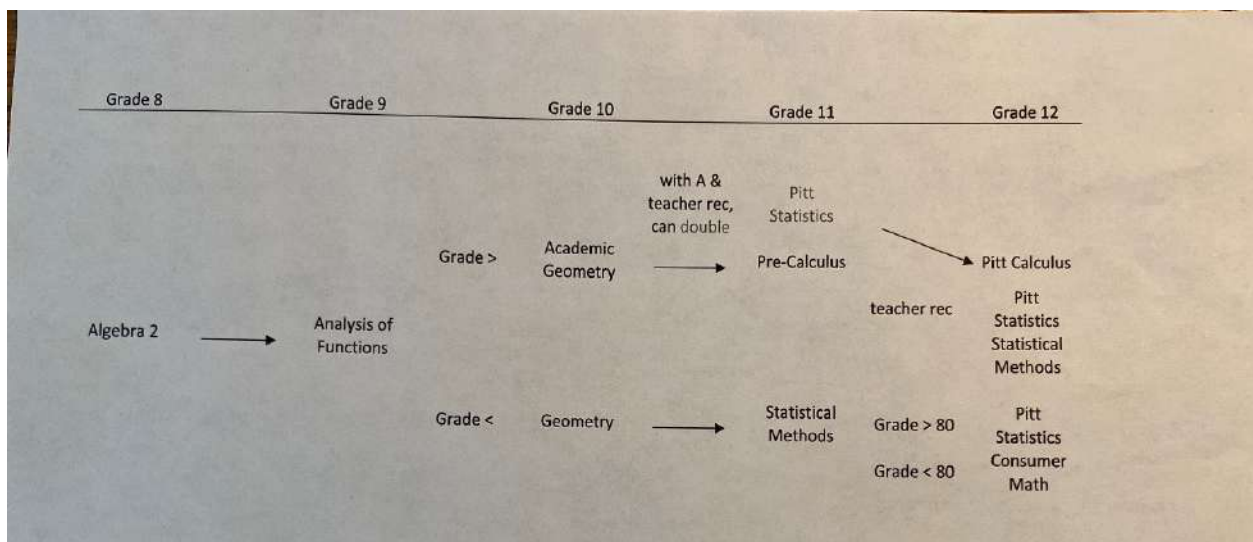
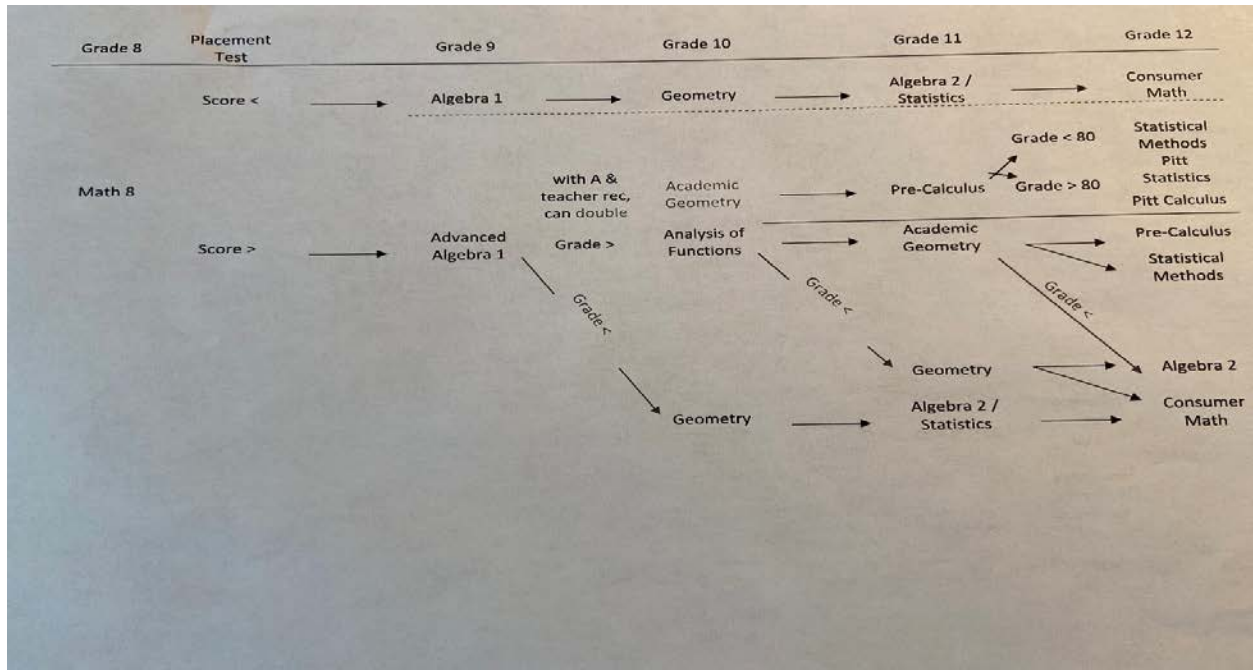
This course will be offered 2022-2023 school year

Grade Level: 12

Prerequisites: Pre-Calculus with a grade of >80% and teacher recommendation.

MATHEMATICS SEQUENCE OF COURSES

Grade 9	Grade 10	Grade 11	Grade 12
Algebra 1	Geometry	Algebra 2	Consumer Math
Advanced Algebra 1	Analysis of Functions	Pre-Calculus	Algebra 2
Analysis of Functions	Academic Geometry	Geometry	Statistical Methods
		Academic Geometry	Pre- Calculus
		Statistical Methods	PITT Stats
		PITT Stats	PITT Calculus Will be offered in 2022-2023



Music Department

CONCERT CHOIR	#0905	CREDITS 1.0
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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
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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 concepts in chemistry using a real-world application. This course is recommended for students who lack a strong mathematical background and students who do not plan on continuing in science field after high school. Concepts include, but are not limited to water chemistry, conserving chemicals, air and climate chemistry, etc.

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 change in undergoes in the presence of other matter. Laboratory methods and skills and problem solving skill will be developed during the s course.

Grade Level: 10-12

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

PHYSICAL SCIENCE#0418 CREDITS 1.0

****Last year to offer this course will be 2021-2022.**

Physical Science introduces fundamental concepts and skills necessary for success in high school biology, chemistry and physics courses. Students in Physical Science will take a hand-on approach to learn the basic concepts needed to successfully complete other high school science courses. The course will be separated into two semesters: one semester will cover chemistry topics and the other semester will cover physics topics. Chemistry topics in this course will include taking measurements and observations, unit conversions, organization of a laboratory notebook, organization and structure of matter, and chemical reactions. Physics topics in this course will include graphing, motion, forces and electricity/magnetism.

Grade Level: 10-11

Prerequisites: Only students that had a 50% or lower for their final grade in 2021 school year in Physical Science are eligible to retake this course.

UNIVERSITY OF PITT CHEMISTRY#0404 CREDITS 1.6

This is the first half of a two-term introduction to general chemistry. The grade is determined by the student's performance on three exams, weekly quizzes, laboratory exercises, and a comprehensive final. Laboratory exercises are conducted at the University by the Director of Freshman Laboratories and his staff of graduate teaching assistance. Topics include atomic theory, molarity, gases and kinetic theory, thermo chemistry, electronic structure and the periodic table, relationships between phases, ionic solutions and acid/base theories, redox reactions, carbon chemistry, rates of reactions, chemical equilibria, and thermodynamics. This course requires laboratory sessions and exams on the University of Pittsburgh campus.

Fees Required: \$400 must be submitted to the University of Pittsburgh during their College in High School payment window. This fee covers the labs and required computer program. If not paid, the student will be withdrawn from class.

Grade Level: 12

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

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.

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

#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 cell biology, tissues, anatomy/physiology of the human body, interrelationships of the body organ systems, maintenance of the body, reproduction, and embryonic development. Dissection will be a required part of this course.

Grade Level: 11-12

Prerequisites: Biology, Chemistry, Honors Physics.

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
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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
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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
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This course will be offered 2022-2023 school year
Grade Level: 11-12
Prerequisites: Biology, Chemistry, recommended Human Anatomy & Physiology.

UNIVERSITY OF PITT PHYSICS	#0420	CREDITS 1.4
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This course will be offered 2022-2023 school year
Grade Level: 11-12
Prerequisites: Honors Physics, PITT Calculus (previously or concurrently)

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
 - Anatomy and Physiology
 - Intro to Astrophysics
 - PITT Chemistry (Offered every other year 2021-2022, 2023-2024, 2025-2026)
 - PITT Physics (Offered every other year 2022-2023, 2024-2025, 2026-2027)
 - 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

20 TH 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
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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, 20thCentury 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
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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

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
(Can be taken if not taken in 11th Grade)

GRADE 11

- US Government (required)
- PITT Politics

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

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.

THREE YEAR CAREER CENTER STUDENTS COURSE SEQUENCE

GRADE 10	GRADE 11	GRADE 12
Lit/Comp. II	Lit/Comp. III	Lit/Comp. IV
Math	Math	Math or Science
Science	Science	Psychology
P.E	P.E	PE

Mercer County Career Center Course Descriptions

Automotive Technology

Automotive Technology allows students to perform a wide range of diagnostics, repairs, and preventative maintenance on automobiles and light trucks. Students will gain the technical knowledge and skills to obtain an entry-level position and/or pursue postsecondary education. The program's curriculum enables students to develop basic knowledge through classroom theory lessons and acquire a core set of technical

skills by applying learned knowledge in hands-on shop experiences. Classroom lessons include lectures, reading and writing assignments, and demonstrations. The program's instruction includes the diagnosis and testing of malfunctions in and repair of engines, fuel, electrical, cooling, steering, suspension and brake systems. Students also prepare to obtain certifications for PA Safety Inspection; Emissions Inspection; and Refrigerant, Recovery, and Recycling.

Carpentry

Carpentry prepares students to obtain entry-level positions in the construction or wood industries, apprenticeships in trade unions and/or to pursue enrolling in postsecondary institutions for degrees in construction, sales, or management. The program's curriculum enables students to develop a knowledge base through classroom theory lessons and acquire technical skills by applying learned knowledge in hands-on shop experiences. Classroom lessons include lectures, reading and writing assignments, demonstrations, individual and group projects and activities. The program's instruction includes units on safety, hand and power tools, blueprint reading, framing, interior and exterior finish, construction materials, measuring, estimating, and building codes. Students also study technical mathematics, residential steel-framing, and cabinetmaking.

Collision Repair and Refinishing

Collision Repair and Refinishing prepares students to obtain an entry-level position in auto body repair and/or to pursue postsecondary education. The program's curriculum enables students to develop technical knowledge through classroom theory lessons and acquire a core set of skills by applying learned knowledge in hands-on shop experiences. Classroom lessons include lectures, reading and writing assignments, and demonstrations. The program's instruction includes units on workplace skills, safety techniques, vehicle design and function, structural and non-structural welding, estimating repair costs, collision repair procedures, and automotive painting and refinishing. Students learn these fundamental skills of repairing and refinishing damaged vehicles using the tools, products, and materials found in auto body shops and repair facilities.

Computer Information Technology

Computer Information Technology prepares students to obtain entry-level employment and/or provides the foundation for post-secondary success. The program's curriculum enables 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

Cosmetology trains students to become licensed cosmetologists in specialized or full-service salons. The program's curriculum provides concentrated studies in the professional competency areas unique to the cosmetology field. Students develop a knowledge base through classroom theory lessons and perfect their clinical skills by applying learned knowledge in the program's student-operated salon. Classroom lessons include lectures, reading and writing assignments, demonstrations, individual and group projects, as well as other activities. The program's instruction includes units on shampooing, conditioning, cutting and styling hair; chemical texture services and hair coloring techniques; and providing facials, manicures and pedicures. Personal safety, professionalism, and the sanitation and disinfection of equipment and facilities are emphasized. Students also study business management with a focus on managing a salon.

Culinary Arts

Culinary Arts prepares students to obtain entry-level employment related to institutional, commercial, or independently owned food establishments and other food industry occupations and/or provides a foundation for students who pursue acceptance into a postsecondary culinary program. The program's curriculum enables students to develop knowledge through classroom theory lessons and acquire culinary skills by applying learned knowledge in the program's fully equipped commercial kitchen and dining room. Classroom lessons include lectures, reading and writing assignments, demonstrations, and individual and group projects and activities. The program's instruction includes units on use and care of utensils and food preparation equipment; safety; sanitation procedures, nutrition basics, and recipes preparation. Students develop and practice skills through hands-on activities and experiences related to planning, selecting, preparing, and serving of quality food and food products.

Diesel Technology

Diesel Technology prepares students to obtain entry-level employment and/or to pursue postsecondary education. The program's curriculum enables the students to develop basic knowledge through classroom theory lessons and acquire a core set of technical skills by applying learned knowledge in hands-on shop experiences. Classroom lessons include lectures, reading and writing assignments, and demonstrations. The program's instruction includes units on safety, diesel engine mechanics, suspension and steering, brake systems, electrical and electronic systems, and preventive maintenance. Students develop skills for troubleshooting problems; disassembling, rebuilding, and reassembling engines; applying electrical principles to service electrical/electronic systems; inspecting, repairing or replacing various systems' components; and performing preventive maintenance on medium/heavy vehicle systems.

Early Childhood Education

Early Childhood Education allows students to obtain a variety of entry-level childcare occupations in day care centers and preschools and/or provides a foundation for students who pursue a postsecondary early childhood education program. The program's curriculum enables students to develop a knowledge base through classroom theory lessons and acquire care giving, teaching, and managing skills by applying learned knowledge in the program's fully equipped preschool. Classroom lessons include lectures, reading and writing assignments, demonstrations, and individual and group projects and activities.

Instruction includes units on growth and development; nutrition; program play activities; child abuse and neglect; learning experiences for children; and laws, regulations, and policies relating to childcare services.

Electrical Occupations

Electrical Occupations prepares students 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 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 Care Careers

Health Care Careers prepares students to obtain entry-level positions in the health field and/or to pursue postsecondary education. The program provides students with health career exploration activities, instruction of basic skills, which are fundamental to all areas of health care, and clinical experiences. Students develop health care knowledge through classroom theory lessons and practice health care skills in a laboratory setting prior to their clinical assignments. Classroom lessons include lectures, reading and writing assignments, demonstrations, and individual and group projects. The program's core instruction includes units on medical terminology, anatomy and physiology, basic clinical skills, aseptic techniques, OSHA regulations, and infection control.

Innovation and Entrepreneurial Development

Innovation and Entrepreneurial Development enables students to learn first-hand about the risks and rewards of starting and operating a small business. The program's curriculum provides students with knowledge and skills of fundamental business concepts and entrepreneurship. PowerPoint presentations, reading and writing assignments as well as hands-on activities provide students with an overview of the steps and considerations involved in turning an idea into a business, identifying a passion or hobby that can provide a product or service, researching the market, and weighing the risks of starting a small business. The program's core instruction includes units on economic principles, business plans, business related math skills, technology skills and sales along with marketing techniques. Students engage in various business activities related to each planned unit.

Logistics – Material and Supply Chain 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

Precision Production Metals prepares students to obtain entry-level employment in the machine tool industry, apprenticeships sponsored by unions or manufacturers, and/or to pursue enrollment in postsecondary programs. The program's curriculum enables students to develop a knowledge base through classroom theory lessons and acquire technical skills by applying learned knowledge in hands-on shop experiences. Classroom lessons include lectures, reading and writing assignments, and demonstrations. The program incorporates national skills standards developed by the National Institute of Metalworking Skills (NIMS). Instruction includes units on bench work and the operation of lathes, power saws, grinders, milling machines, drills and computer operated equipment. Students also study the use of precision measuring instruments such as layout tools, micrometers and gauges as well as blueprint reading. Emphasis is on machining parts for the NIMS performance exams.

Welding

Welding prepares students to obtain entry-level employment as a welder or in related positions in all types of small and large companies and/or to pursue enrolling in postsecondary programs such as welding engineering or metallurgy. The program's curriculum enables students to gain a knowledge base through classroom theory lessons. Program activities allow students to put their classroom learning into hands-on practice of technical skills. Classroom lessons include lectures, reading and writing assignments, and demonstrations. The program's instruction includes units on safety practices, gas cutting and welding, arc welding in various positions, and types and uses of electrodes and welding rods. Students also learn to fabricate and join metal parts according to diagrams, blueprints, and specifications.

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