

SHARPSVILLE HIGH SCHOOL

PROGRAM OF STUDY AND REGISTRATION HANDBOOK 2013-14

GRADES 11 AND 12

**SHARPSVILLE AREA SCHOOL DISTRICT
ADMINISTRATION**

SUPERINTENDENT:	MR. MARK FERRARA
PRINCIPAL:	MR. KIRK SCURPA
GUIDANCE COUNSELOR:	MRS. ELLEN KELLAR (GR 10-12)

NON-DISCRIMINATION POLICY

As an Equal Rights and Opportunities School District, the Sharpsville Area School District does not discriminate against individuals or groups because of race, color, national origin, religion, age, sex, marital status, or non-relevant handicaps and disabilities. The Sharpsville Area School District's commitment of nondiscrimination extends to students, employees, prospective employees and the community.

The Sharpsville Area School District is committed to the provisions of the Handicapped Act as amended by (PL 94-142) including section 504.

No person shall, on the basis of sex, be excluded from participation in, be denied the benefits of or be subjected to discrimination under any education program or activity receiving Federal financial assistance.

The Sharpsville Area School District hereby certifies that its governing body had adopted the terms of this Resolution and the same is recorded in the meeting held on June 17, 1991.

HOME LANGUAGE SURVEY POLICY

Title VI of the Civil Rights Act of 1964 requires the use of practices and procedures that are designed to ensure the provision of equal educational opportunities to all national origin minority students in the District. The Office of Civil Rights (OCR), U.S. Department of Education, has identified this issue as a primary civil rights issue. To ensure that all students, regardless of their national origin, receive equal opportunity and access to high quality education, the student is required to complete a **Home Language Survey**. If one of the answers is a language other than English, or the country of origin is other than the United States, please contact the school principal who is responsible for language proficiency assessment and instructional placement. Otherwise, the student is considered English language proficient and no further action is needed.

Sharpsville Area School District
701 Seventh Street
Sharpsville, PA 16150

INTRODUCTION

The Sharpsville Senior High School staff and administration have cooperatively prepared this program of studies. The program of studies has been compiled to furnish pertinent information for the parents and students of our Senior High School in regard to the learning opportunities available and the course selection process.

Selecting a Senior High School Program is one of the most important decisions a secondary school student must make. The broad curriculum and specific elective courses a student selects determines the avenues of opportunity available during the post high school years.

Courses listed in this booklet will only be offered when sufficient enrollments are obtained.

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 welcome to select an alternate choice for any offering. Students must schedule **at least six credits plus a physical education class.**

ADDING/DROPPING COURSES

It is anticipated that schedules will be mailed home in August or earlier. 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. All schedule changes will be made prior to the beginning of the school year.

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.

Changes can be made or a course dropped if **ALL** the following are true:

1. The change is possible in terms of the student's existing schedule and the change **will not** overload a particular class.
2. The change results in a reasonable program of studies in terms of the established curriculum.
3. The change is approved by parent, teacher, counselor and principal.

In most cases changes will not be made in elective classes, unless extenuating circumstances exist.

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

Credit deficiencies due to failure of a course may be eliminated by earning credit in any of the following ways:

1. Repeating the course.
2. Attending the approved summer school.
3. Tutoring by a certified teacher. **Prior approval must be obtained by the Principal.**
4. Completing an approved correspondence course, prior to the start of the next school year or the course will be added back into the student's schedule.

SHARPSVILLE AREA HIGH SCHOOL 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:

- a. **English** - four planned courses
- b. **Social Studies** - four planned courses
- c. **Mathematics** - four planned courses
must include Algebra and Geometry
- d. **Science** - four planned courses
must include Biology, Chemistry, and Physics
(may be conceptual level)
- e. **Foreign Languages** - two planned courses
- f. **Health Education** - one planned course
- g. **Physical Education** - a planned course in each of grades 9, 10, 11 and 12
- h. **Basic Skills** – a planned course that will alternate between Technology and Physical Education throughout the entire school year.
- i. **Consumer Education** - One planned course to include child care (The senior social studies class, Psychology, meets this requirement)
- j. **Electives** - the number of courses needed to earn a minimum of 26 units. (No course may fulfill a requirement in more than one area)

CAREER CENTER STUDENTS GRADUATION REQUIREMENTS

Follow the above criteria **except**:

Social Studies - three planned courses

Science - three planned courses must include Biology, Chemistry and Physics (may be conceptual level and/or integrated science classes)

Cosmetology Students will follow the above criteria **except**:

Social Studies - two planned courses

Mathematics - three planned courses

Science - three planned courses must include Biology, Chemistry and Physics (may be conceptual level)

Foreign Language - one planned course

In addition to the Graduation Requirements listed, students **must** satisfy the following:

_____ **Community Service** - All students **MUST** participate in 32 hours of pre-approved community service.

_____ **School Sponsored Activity** - Every student **MUST** be involved in one school sponsored activity each year. This includes clubs, student government, athletics, marching band, drama, etc.

_____ **Student Project** – In order to graduate from the Sharpsville Area High School, all students **MUST** complete a student project in addition to the academic requirements already established. The purpose of the student project is to assure that you are able to apply, analyze, synthesize and evaluate information and communicate significant knowledge of understanding.

In addition to these criteria, allowances will be made for the accomplishments of specifications within IEP's and for activities related to approve alternative or vocational educational programs.

CLASS RANK DETERMINANTS
EFFECTIVE CLASS OF 2005-2015

All classes taken during the **normal school day** and the normal school year are included in class rank determination. (This includes off campus courses, which require pre-approval from the Principal and Guidance Counselor.)

The following courses receive a weighted value by adding **ten (10)** points to the **final** percentage grade when calculating class rank only.

Calculus	Physics	Spanish 3
Alg. 3/Trigonometry	Chemistry	Spanish 4
Human Anatomy & Physiology		

The following courses receive a weighted value by adding **twenty (20)** points to the **final** percentage grade.

AP History
University of PITT Courses
AP Language & Composition
AP Literature & Composition
AP Chemistry
AP Biology
AP Probability & Statistics
Dual Enrollment Courses (see next page)

Calculation of rank is as follows:

Final percent (plus weighting, if applicable) times course credit equals class points. The **TOTAL CLASS POINTS**, cumulative over the four years are used for ranking.

The Superintendent will establish a committee to evaluate course offerings for inclusion/exclusion on the weighted course list.

Calculation of GPA is as follows:
Effective class of 2005-2015

When calculating GPA, **only** for courses weighted 20, 1 **will be added** to the final GPA.
(A = 5, B = 4, C = 3, D = 2)

DUAL ENROLLMENT OPTION

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.
- 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. A reduced number of credits will have a negative impact on class rank.
- The student will be responsible for full tuition payment prior to start of the course.
- Students must be enrolled for **both** semesters beginning in the fall of their senior year.

TITLE	<u>LITERATURE & COMPOSITION 1</u>	CREDIT 1
COURSE #0101		GRADE 9
PREREQUISITE/S	None	
DESIGN OF COURSE	This course focuses on formal criticism of fiction and nonfiction and development of effective oral and written communication skills.	
CONTENT	Literature will be devoted to stimulating student interest, to explore the range of literary genre, and to prepare the students for a more formal study of literature in levels 10-12. Composition will provide activities that will enable each student to express himself/herself clearly, concisely, and effectively in both written and oral skills, focusing on developing a strong style in addition to mastery of grammar.	
TITLE	<u>LITERATURE & COMPOSITION 2</u>	CREDIT 1
COURSE #0103		GRADE 10
PREREQUISITE/S	Literature & Composition 1	
DESIGN OF COURSE	This course continues to develop students' skills of formal literature criticism and effective oral and written communication skills.	
CONTENT	Chosen literature includes traditional canonical pieces, continues to explore the range of literary genre, and addresses historical connections (as preparation for American survey in Literature and Composition 3). Students will focus strongly on developing writing style and oral presentation skills. All students enrolled in Literature & Composition 2 will take the Keystone Literature examination.	
TITLE	<u>LITERATURE & COMPOSITION 3</u>	CREDIT 1
COURSE #0110		GRADE 11
PREREQUISITE/S	Literature & Composition 2	
DESIGN OF COURSE	This course is designed to improve students' verbal and oral communication skills through an exposure to the literature of their country.	
CONTENT	Course content includes a review of grammar, the writing of composition in numerous contexts, and a survey of American literature from the Colonial period to the present. Several smaller papers or a research paper is required to correspond with literature and to improve writing skills across the various domains. Students will also prepare further for the writing and reading state assessments.	

TITLE **LITERATURE & COMPOSITION 4** **CREDIT** 1

COURSE #0111 **GRADE** 12

PREREQUISITE/S Literature & Composition 3

DESIGN OF COURSE British and World Literatures provide 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 Great works of short stories, poetry, plays, nonfiction and novels are covered from ancient to modern times.

TITLE **JOURNALISM 1** **CREDIT** 1

COURSE #0106 **GRADE** 10-11-12

PREREQUISITE Must have successfully completed Literature & Composition 1 with a grade average of B or higher. This course will require a teacher signature.
NOTE: This course can not be substituted for Literature & Composition 2, 3 and/or 4.

DESIGN OF COURSE This course is designed for students who are proficient in writing skills and have an interest in the production of publications. Publications include the school yearbook and the school newspaper. Classroom instruction will center on the journalistic techniques to the development of a publication. Students who wish to take this course must be highly motivated, work well with others, and be responsible in following through with assignments as the work finalizes in a publication.

TITLE **JOURNALISM 2** **CREDIT** 1

COURSE #0107 **GRADE** 11-12

PREREQUISITE Must have successfully completed Journalism 1 and have teacher approval.
NOTE: This course can not be substituted for Literature & Composition 2, 3 and/or 4.

DESIGN OF COURSE This course is designed for students who are proficient in writing skills and have an interest in the production of publications. Publications include the school yearbook and the school newspaper. Classroom instruction will center on the journalistic techniques to the development of a publication. Students who wish to take this course must be highly motivated, work well with others, and be responsible in following through with assignments as the work finalizes in a publication.

TITLE	<u>JOURNALISM 3</u>	CREDIT 1
COURSE #0108		GRADE 12
PREREQUISITE	Must have successfully completed Journalism 1 and 2 and have teacher approval.	
	NOTE: This course can not be substituted for Literature & Composition 2, 3 and/or 4.	

TITLE	<u>ADVANCED PLACEMENT LANGUAGE AND COMPOSITION</u>	CREDIT 1
COURSE #0112		GRADE 11-12
Fee required	<p>Required payment of approximately \$89.00 for the AP test must be submitted within the first two weeks of school, or the student will be withdrawn from class.</p> <p>Required practice test book \$20-\$30. Required vocabulary book \$10 (may be resold to future classes).</p> <p>NOTE: This course can not be substituted for Literature/Composition 3 or 4. This course is a <u>required</u> prerequisite for AP Literature in 12th grade.</p>	

PREREQUISITE FOR JUNIORS

Two years of English with an A average.
 Submission of a one page essay to Ms. Weingartner about why you want to take this course(due at time of registration).
 Recommendation from the Grade 9 or 10 English teacher.
 Agreement to attend THREE required summer meetings of the class with successful completion of all assignments for those meetings. Meeting dates are established in May so that students can schedule accordingly.
 No make up meetings will be offered for anyone absent; assignments will only be accepted at those meetings.

PREREQUISITE FOR SENIORS

Three years of English with an A average recommended.
 Recommendation from Grade 9,10,or 11 English teacher.
 Submission of one page essay to Ms. Weingartner about why you want to take this course(due at time of registration). Agreement to attend THREE (3) required summer meetings of the class with successful completion of all assignments for those meetings. Meeting dates are established in May so students can schedule accordingly. No make up meetings will be offered for anyone absent; assignments will only be accepted at those meetings.

DESIGN OF COURSE The Advanced Placement Language and Composition course enables students to pursue college level studies at the secondary level and to receive advanced placement credit in college upon successful performance on the AP Composition test in early May. Students are often exempted from introductory college courses (freshmen composition); however, the process is dependent on each institution's policy.

CONTENT Open to capable juniors and seniors, this college-level course will engage students in becoming skilled readers of prose written in a variety of periods, disciplines and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. The course allows students to write in various forms—narrative, exploratory, expository, argumentative—and a range of subjects from personal experiences to public policies, from imaginative literature to popular culture. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. Writing as a process of composition from generating ideas, developing rough drafts, revising, editing, and proofreading is emphasized. The primary purpose in this class (as in most first-year college composition courses) will be to enable students to write effectively and confidently in their college courses across the curriculum and in their professional and personal lives.

TITLE **ADVANCED PLACEMENT LITERATURE AND COMPOSITION** **CREDIT 1**

COURSE #0113 **GRADE 12**

Fees required **Required payment of approximately \$89.00 for the AP test must be submitted within the first two weeks of school, or the student will be withdrawn from class.**
Required practice test book \$20-\$30
Required vocabulary book \$10 (may be resold to future classes)

NOTE: This course can not be substituted for Literature/Composition 3, but may be substituted for Literature/Composition 4

PREREQUISITES Advanced Placement Language and Composition.
Three years of English with an A average.
Recommendation from the Grade 9, 10 or 11 English teacher.
Submission of one page essay to Ms. Weingartner about why you want to take the course (due at time of registration). This essay is waived for students continuing from AP Composition.
Agreement to attend THREE required summer meetings of the class with successful completion of all assignments for those meetings.

Meeting dates are established in May so that students can schedule accordingly. No make up meetings will be offered for anyone absent; assignments will only be accepted at those meetings.

DESIGN OF COURSE The Advanced Placement Literature & Composition course enables students to pursue college level studies at the secondary level and to receive advanced placement credit in college with sufficient attainment on the AP Literature exam in early May. Students are often exempted from introductory college courses (Freshmen Composition); however, the process is dependent on each institution's policy.

CONTENT Advanced Placement Literature and Composition requires an intensive study of representative works found in literature. The conventions of different genres and historical periods will be recognized. Tools of critical analysis will be provided. Students will apply these tools, examine the breadth and depth of literary pieces, and make connections through intellectual thought or creativity. Students will reflect on their readings through extensive discussions. Further, students will produce written responses while employing structures appropriate to various aims and modes. Writing assignments will include expository, analytical, and argumentative essays. The course demands active reading involving the following elements: the experience of literature, the interpretation of literature and the evaluation of literature.

TITLE	<u>U.S. HISTORY</u>	CREDIT	1
COURSE #0301		GRADE	9

DESIGN OF COURSE 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.

CONTENT 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.

TITLE	<u>20TH CENTURY WORLD HISTORY</u>	CREDIT	1
COURSE #0302		GRADE	10

DESIGN OF COURSE 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.

CONTENT 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.

TITLE	<u>U.S.GOVERNMENT</u>	CREDIT 1
COURSE #0303		GRADE 11
DESIGN OF COURSE	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.	
CONTENT	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.	

TITLE	<u>PSYCHOLOGY</u>	CREDIT 1
COURSE #0304		GRADE 12
DESIGN OF COURSE	Psychology is designed to acquaint students with the basic concepts that drive human behavior.	
CONTENT	Psychology will introduce students to the concepts of consciousness, development, physiology, learning and memory, and psychological disorders. The content will be survey in nature.	

TITLE	<u>CURRENT EVENTS</u>	CREDIT 1
COURSE #0306		GRADE 10-12
DESIGN OF COURSE	This course is designed to introduce the students to the study of current events and the impact they have upon their lives.	

NOTE: This course can not be substituted for US History, 20th Century World History, US Government and/or Psychology.

CONTENT	This class will use American and foreign media sources to track, discuss, and analyze current news events. Local news and history will also be highlighted on a regular basis. Students are required to <u>participate every day</u> by keeping up with the news, researching various topics and discussing them in class. Half of the grade will come from in-class discussions and work while the other half will be earned from written assignments and short quizzes.	
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TITLE	<u>ADVANCED PLACEMENT US HISTORY</u> CREDIT 1
COURSE#0305	Grade 11 & 12
Fees required	Required payment of approximately \$89.00 for the AP test must be submitted within the first two weeks of school, or the student will be withdrawn from class.
PREREQUISITE/S	Students must have completed at least two years of high school social studies courses with at least a 90% final grade in each.
ADMISSION	Students are required to meet with Mr. Kalpich and may be subject to an admissions exam.
WORKLOAD	Forty to sixty pages of reading per week. Thirty to fifty definitions per week. Weekly essays (1-2 pages). Regular document-based questions. Approximately six full-period multiple choice exams per year. A final exam is required.
REQUIREMENTS	Students must enjoy history, reading and extensive writing. If you do not like these, then this course is not for you.
CONTENT	United States history from 1607 through the 1990s.
AP EXAM	Students enrolled in this course are required to take the exam in May.
Credit	This class will take the place of the U.S. Government class required for juniors.

TITLE	<u>ACADEMIC BIOLOGY</u>	CREDIT	1.4
COURSE #0401		GRADE	9-10
PREREQUISITE/S	Grade 9: An A average for the 3 years of science grades 6-8 <u>and</u> teacher recommendation.		
DESIGN OF COURSE	Academic Biology is an accelerated course in biology designed for students planning an academic and/or health related career. Academic Biology(Pre-AP) introduces fundamental concepts necessary for Advanced Placement science courses or college level study of science.		
CONTENT	Students in Academic Biology will study life from simple, unicellular organisms to advanced life forms. This course will include the study of cell biology, cellular respiration, photosynthesis, DNA science, Mendelian and human genetics, biotechnology, evolution and natural selection, and comparative animal/plant anatomy & physiology. Laboratory methods and skills, along with various problem-solving techniques, will be developed. Dissection will be a required part of this course. Alternative dissection assignments will be provided for vertebrates upon request.		

TITLE	<u>PHYSICAL SCIENCE</u>	CREDIT	1
COURSE #0418		GRADE	10
PREREQUISITE	Academic Biology		
DESIGN OF COURSE	Physical Science introduces fundamental concepts necessary for chemistry and physics courses. Students may test out of Physical Science to pursue more rigorous science courses in the curriculum.		
CONTENT	Students in Physical Science will learn the basic concepts needed to successfully complete physics and chemistry. The course will be separated into two semesters: one semester will cover the chemistry topics and the other semester will cover the physics topics. Chemistry topics in this course will include unit conversions, organization and structure of matter, the Periodic Table and trends, chemical formulas, and the mole concept. Physics topics in this course will include graphing, motion, forces, momentum, and center of gravity.		

TITLE	<u>CONCEPTUAL CHEMISTRY</u>	CREDIT	1
COURSE #0402		GRADE	10-12
PREREQUISITE/S	Academic Biology Algebra 2(previously or concurrently).		
DESIGN OF COURSE	Conceptual Chemistry is an introductory chemistry course designed to familiarize students with chemical concepts and to teach students how to apply these chemical concepts to practical situations.		
CONTENT	Students in Conceptual Chemistry will learn how chemistry applies to their everyday life, and also how to incorporate problem-solving techniques to deal with their environment. Topics in this course will include: atomic structure; the Periodic Table and trends; chemical formulas, equations and reactions; solutions; acid/base chemistry; oxidation-reduction reactions and electroplating; fossil fuels and polymers; water chemistry; food chemistry; and nuclear energy.		

TITLE	<u>CHEMISTRY</u>	CREDIT	1.4
COURSE #0403		GRADE	10-12
PREREQUISITE/S	Academic Biology, Algebra 2 (previously or concurrently)		
DESIGN OF COURSE	Chemistry is an accelerated course in chemistry designed for students planning an academic and/or health related career. Chemistry introduces fundamental concepts necessary for Advanced Placement science courses or college level study of science.		
CONTENT	Students in Chemistry will study the chemical composition of matter, its properties, and the changes it undergoes in the presence of other matter. Topics in this course will include: atomic structure; the Periodic Table and trends; chemical formulas, equations and reactions; stoichiometry; gas laws; bonding theory; organic molecules and polymers; solutions; acid/base theory; and oxidation-reduction reactions. Laboratory methods and skills, along with various problem-solving techniques, will be developed. All students will be required to complete a project on earth/space science.		

TITLE	<u>CONCEPTUAL PHYSICS</u>	CREDIT	1
COURSE #0405		GRADE	11-12
PREREQUISITE/S	Chemistry, Conceptual Chemistry		
DESIGN OF COURSE	Conceptual Physics is an introductory physics course designed to familiarize students with physics concepts and to teach students how to apply these physical concepts to practical situations.		
CONTENT	Students in Conceptual Physics will learn how physics applies to their everyday life, and also how to incorporate problem-solving techniques to deal with their environment. Students in Conceptual Physics will study basic concepts of kinematics and dynamics, wave motion, light and physical optics, and electricity and magnetism. Laboratory methods and skills, along with various problem-solving techniques, will be developed.		

TITLE	<u>PHYSICS</u>	CREDIT	1.4
COURSE #0406		GRADE	11-12
PREREQUISITE/S	Chemistry, Algebra 3/Trigonometry (previously or concurrently)		
DESIGN OF COURSE	Physics is an accelerated course in physics designed for students planning an academic and/or health related career. Physics introduces fundamental concepts necessary for Advanced Placement science courses or college level study of science.		
CONTENT	The students in this course study the relationship between matter and energy. Topics covered in the class include measurement, one-dimensional motion, forces and Newton's Laws, projectile and circular motion, torque and rotational dynamics, momentum and its conservation, energy and its conservation, mechanical waves and sound, physical optics and electricity and magnetism. Laboratory methods and skills, along with various problem-solving techniques, will be developed.		

TITLE	<u>ENVIRONMENTAL SCIENCE</u>	CREDIT	1
COURSE #0408		GRADE	11-12
PREREQUISITE/S	Conceptual Chemistry		
DESIGN OF COURSE	Environmental Science is a course designed for the student interested in the environment but who lacks a strong mathematical background.		

CONTENT 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.

TITLE **HUMAN ANATOMY & PHYSIOLOGY** **CREDIT** 1
COURSE #0407 **GRADE** 11-12

PREREQUISITE/S Academic Biology, Chemistry and teacher recommendation

DESIGN OF COURSE 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.

CONTENT 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.

TITLE **ADVANCED PLACEMENT BIOLOGY** **CREDIT** 1.6
COURSE #0413 **GRADE** 11-12

Fees Required **Required payment of approximately \$89.00 for the AP test must be submitted within the first two weeks of school, or the student will be withdrawn from class.**

PREREQUISITE/S Academic Biology, Chemistry, Human Anatomy & Physiology (concurrently)

DESIGN OF COURSE The Advanced Placement Biology course is designed to be the equivalent of the biology course taken by first year college science majors. This course enables students to take sophomore level biology courses as freshmen. For other students, this course fulfills the college laboratory science requirement and frees time for other courses.

CONTENT 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 energetics, 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.

TITLE	<u>ADVANCED PLACEMENT CHEMISTRY</u>	CREDIT 1.6
COURSE #0404		GRADE 12
Fees Required	Required payment of approximately \$89.00 for the AP test must be submitted within the first two weeks of school, or the student will be withdrawn from class.	
PREREQUISITE/S	Chemistry, Algebra 3/Trigonometry, Physics (previously or concurrently)	
DESIGN OF COURSE	The Advanced Placement Chemistry course is designed to be the equivalent of the chemistry course taken by first year college science majors. This course enables students to take sophomore level chemistry courses as college freshmen. For other students, this course fulfills the college laboratory science requirement and frees time for other courses.	
CONTENT	Students in this course will have the opportunity to attain a more in-depth understanding of chemistry concepts and competence in dealing with chemical problems. This course will differ from the first year of chemistry with respect to the kind of textbook used, emphasis on chemical calculations and understanding chemical concepts, and the complex nature of experiments done in the laboratory. The topics in this course will include: the structure of matter (atomic theory, chemical bonding, nuclear chemistry), states of matter, reaction types, stoichiometry, chemical equilibria, chemical kinetics, redox chemistry, and descriptive organic chemistry. Problem solving; higher-order thinking; the scientific method; the use of scientific literature; qualitative analysis; quantitative techniques; data collection, manipulation, and analysis; and exposure to instrumentation will be the focus of the laboratory experience.	

TITLE	<u>PHYSICS II</u>	CREDIT	1.4
COURSE #0419		GRADE	12
PREREQUISITE/S	Physics or Pitt Physics		
DESIGN OF COURSE	Physics II is a continuation of Physics and is designed for those students who are interested in pursuing a major in physics, engineering or architecture or who want to build a better foundation to prepare for a college level of study.		
CONTENT	Physics II is designed for students who want or need to have a more in-depth understanding of physics to prepare them for the rigors of college physics courses. The course will allow the students to explore topics that are not covered in academic physics, to practice more challenging problems and develop higher level critical thinking skills, to apply concepts of calculus to solve problems, to engage in a deeper understanding of previously-learned topics. Topics covered in this class include motion, two-dimensional forces, gravitation, rotational motion, work and energy, vibrations and waves, solids and fluids, electricity and magnetism, and modern physics.		

TITLE	<u>UNIVERSITY OF PITTSBURGH PHYSICS</u>	CREDIT	1
COURSE #0420		Grade	11-12
Fees Required	Approximately \$200.00 must be submitted within the first two weeks of school, or the student will be withdrawn from class.		
	<i>One(1)Sharpsville credit will be earned for passing the class. Four(4)college credits are earned with a C or better on the Pitt/Sharpsville combined grade.</i>		
PREREQUISITE/S	Biology, Physics, Calculus (previously or concurrently)		
DESIGN OF COURSE	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.		
CONTENT	This course involves an in-depth study of motion, vectors, forces, work and energy, systems of particles, rotation, gravitation, oscillations, mechanical waves and kinetic theory of gases. Calculus concepts will be applied in these areas of study.		

TITLE	<u>ALGEBRA</u>	CREDIT 1
COURSE #0501		
PREREQUISITE	A grade of less than 90% in Pre Algebra.	
DESIGN OF COURSE	This course is designed to provide a foundation of Algebra and give students a solid understanding of computation and problem solving.	
CONTENT	This course focuses on solving equations and inequalities, graphing linear equations and inequalities, polynomial operations, and factoring.	

TITLE	<u>ALGEBRA 2</u>	CREDIT 1
COURSE #0529		
PREREQUISITE	Must have passed Algebra.	
DESIGN OF COURSE	This course is designed to further the foundation of Algebra 1.	
CONTENT	This course will focus on rational polynomial expressions, quadratic expressions, properties of relations and functions, graphing functions, properties and operations with matrices, conic sections.	

TITLE	<u>STANDARDS BASED MATH</u>	CREDIT 1
COURSE #0522		
PREREQUISITE	*This course is mandatory for any student who was not proficient on Module 1 and/or Module 2 of the Keystone Algebra Exam.	
DESIGN OF COURSE	This course is designed to give students a better understanding of the underlying mathematical concepts as put forth by the PA standards for mathematics.	
CONTENT	This course focuses on computational fluency, practical applications of math, understanding and explanations of mathematical processes, conceptual understanding of algebra and geometry, with a focus on NCTM and PA State Standards.	

TITLE	<u>GEOMETRY</u>	CREDIT 1
COURSE #0502		
PREREQUISITE	Must have passed Algebra.	
DESIGN OF COURSE	This course is designed to provide students with the foundations of Geometry dealing with two and three dimensional figures.	
CONTENT	This course covers concepts related to triangles, polygons and circles, similarity and congruence, and area and volume formulas and their applications. Students will use the concepts learned to solve various problems.	
TITLE	<u>ACADEMIC ALGEBRA 1</u>	CREDIT 1
COURSE #0504		
PREREQUISITES/S	Must have passed Grade 8 Pre Algebra with a 90% or higher. Students with a grade of less than 80% in Grade 8 Algebra I will repeat the course for a more in depth study of Algebra 1 to prepare them for higher level Math Courses.	
DESIGN OF COURSE	This course is a more intense study of Algebra 1 designed to prepare the student for the advanced math sequence in our school.	
CONTENT	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.	
TITLE	<u>ACADEMIC ALGEBRA 2</u>	CREDIT 1
COURSE #0508		
PREREQUISITES	Must have passed Academic Algebra 1 with a 70% or higher.	
	Any student who has completed Algebra 1 in 8 th grade with a grade of 80% or higher can take Academic Algebra 2.	
DESIGN OF COURSE	This course is necessary for those students who wish to continue in the advanced math sequence in our high school.	
CONTENT	This course will focus on rational polynomial expressions, quadratic expressions, properties of relations and functions, graphing functions, properties and operations with matrices, conic sections.	

TITLE **ACADEMIC GEOMETRY 1** **CREDIT 1**

Course #0505

PREREQUISITE/S Students must have passed Academic Algebra 2 with a 70% or higher.
By teacher recommendation and passing Ac. Alg. 2 with a 90% or higher; this course may be taken concurrently with Ac. Alg. 3/Trig

DESIGN OF COURSE This course is a more intense study of Geometry designed to prepare the student for the advanced math sequence in our school.

CONTENT This course is an intense study of Geometry which covers concepts related to triangles, polygon and circles, similarity and congruence, and area and volume formulas and their applications. Students will use the concepts learned to solve various problems and to develop logical proofs. Academic Geometry 1 will prepare the student for the advanced math sequence in our school.

TITLE **ACADEMIC ALGEBRA 3/TRIGONOMETRY** **CREDIT 1**

COURSE # 0510

PREREQUISITE/S Must have passed Academic Algebra 2 and Academic Geometry with a grade of 70% or higher.
This course may be taken concurrently with Academic Geometry by teacher recommendation.

DESIGN OF COURSE This course is designed for students who wish to continue with a more in-depth study of Algebra and college-based Trigonometry, in preparation for higher mathematics as they anticipate continuing their education beyond high school.

CONTENT Approximately one-half year will entail Algebra 3 topics and one-half year on Trigonometry.
This course involves the study of sequence and series with limits and higher order functions and quadratics. The students will study the six trigonometric functions as they relate to the unit circle and the right triangle. The students will study trigonometric identities, the law of sines and cosines and graph and apply the trigonometric functions.

TITLE	<u>INTRODUCTION TO PROBABILITY AND STATISTICS</u>	CREDIT 1
COURSE # 0524		
PREREQUISITE/S	Must have passed Algebra 2.	
DESIGN OF COURSE	This course is designed to provide a basis in data driven decision making, and the probabilities associated with real world events.	
CONTENT	This course will focus on the areas of probability and statistics, with a focus on practical applications and real world problem solving. This course will incorporate the use of technology in problem solving, and require the student to do projects and modeling.	

TITLE	<u>UNIVERSITY OF PITTSBURGH CALCULUS FOR BUSINESS</u>	*CREDIT 1
Course #0515		
Fees Required	Students may concurrently earn University of Pittsburgh credits for a fee of \$200.00.	
	<i>*One(1)Sharpsville credit will be earned for passing the class. Four(4)college credits are earned with a C or better on the Pitt/Sharpsville combined grade.</i>	
PREREQUISITE/S	A grade of 80% or higher in Academic Algebra 1, Academic Geometry 1, Academic Algebra 2 and Academic Algebra 3/Trig, and teacher recommendation from two math teachers.	
DESIGN OF COURSE	This course is designed to fill the needs of those students who expect to engage in vocations involving business, finance, economics, and other social sciences. College-bound students who expect to take one year or more of college mathematics (calculus in particular) will find this course invaluable.	
CONTENT	This course introduces the basic concept of the limit and its application to continuity, differentiation, integration, maximization, minimization and partial derivatives. Applications to the social sciences, especially business and economics, are stressed. The calculus of trigonometric functions is not covered.	

TITLE **UNIVERSITY OF PITTSBURGH CALCULUS** *CREDIT 1

COURSE #0513

Fees Required **Approximately \$200.00 must be submitted within the first two weeks of school, or the student will be withdrawn from class.**

**One(1)Sharpsville credit will be earned for passing the class.
Four(4)college credits are earned with a C or better on the Pitt/Sharpsville combined grade.*

PREREQUISITE/S A grade of 80% or higher in Academic Algebra 1, Academic Geometry 1, Academic Algebra 2 and Academic Algebra 3/Trig, and teacher recommendation from two math teachers.

DESIGN OF COURSE This course 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.

CONTENT 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.

TITLE **ADVANCED PLACEMENT PROBABILITY AND STATISTICS**

COURSE #0525 **CREDIT 1**

Fees Required **Required payment of \$89.00 for the AP test must be submitted within the first two weeks of school, or the student will be withdrawn from class.**

Students may concurrently earn University of Pittsburgh Credits for a fee of \$200.00.

PREREQUISITE/S Juniors must have a grade of 90% or higher in Academic Algebra 1, Academic Geometry, Academic Algebra 2 and Academic Algebra 3/Trig.

Seniors must have a grade of 80% or higher in Academic Algebra 1, Academic Geometry 1, Academic Algebra 2 and Academic Algebra 3/Trig. Students planning on taking AP Probability and Statistics and Academic Algebra 3/Trig concurrently require teacher recommendation.

DESIGN OF COURSE This course is designed to provide college-bound students with an opportunity to earn college credit for a Probability and Statistics class.

CONTENT This course will follow the AP course guidelines set forth by the College Board, as well as the similar guidelines set forth by the University of Pittsburgh. It is designed to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Content

is equivalent to a one semester, introductory, non-calculus-based, college course in statistics. There will be a focus on practical applications and real world problem solving. This course will incorporate the use of technology in problem solving, and require the student to complete several projects throughout the year.

TITLE	<u>SPANISH 1</u>	CREDIT	1
COURSE #0602		GRADE	9-12
PREREQUISITE/S	None		
DESIGN OF COURSE	Spanish 1 is a first year language course designed to provide basic level foreign language skills.		
CONTENT	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.		

TITLE	<u>SPANISH 2</u>	CREDIT	1
COURSE #0604		GRADE	10-12
PREREQUISITE	Spanish 1		
DESIGN OF COURSE	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.		
CONTENT	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.		

TITLE	<u>SPANISH 3</u>	CREDIT	1
COURSE #0605		GRADE	11-12
PREREQUISITE/S	75% average in Spanish 2		
DESIGN OF COURSE	This weighted course is designed for students who are interested in furthering their understanding of the Spanish language.		
CONTENT	Spanish 3 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.

TITLE	<u>SPANISH 4</u>	CREDIT	1
COURSE #0606		GRADE	12
PREREQUISITE/S	75% average in Spanish 3		
DESIGN OF COURSE	This weighted course is designed to provide higher competency and fluency in Spanish.		
CONTENT	Spanish 4 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.		

TITLE	<u>CHINESE 1 (Sharpville Online Learning Academy)</u>	CREDIT	1
COURSE #0609		GRADE	9-12
CONTENT	Students use compelling stories, games, videos, and multimedia experiences in this introduction to Chinese. They learn the elegant simplicity of Chinese grammar and the subtleties of Chinese pronunciation through entertaining lessons that give a base of conversational ability and listening comprehension. Students build a foundation for reading and writing in the Chinese language through an adaptive technology that lets them choose an approach that works best for them. All new graphics, video, and games keep students engaged, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. This is a two semester course.		

TITLE	<u>CHINESE 2 (Sharpville Online Learning Academy)</u>	CREDIT	1
COURSE #0610		GRADE	10-12
CONTENT	Students will continue with engaging stories, games, videos, and multimedia experiences in this second level of Chinese. Students further their understanding of Chinese grammar and pronunciation through lessons refining previous practice of conversational ability and listening comprehension. Innovative cultural videos and lessons build awareness of the rich legacy of Chinese culture. Students expand their foundation for reading and writing in Chinese through adaptive technology, providing opportunities to generate fun narratives, a range of well-formed		

sentences reflecting a solid grasp of grammar structures, and a wide vocabulary. All new graphics, video, and games keep students engaged, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. This is a two semester course.

TITLE **ACT/SAT TEST PREP**

COURSE #0530 Semester Course **CREDIT Varies**
 Student Cost: \$79.95 (includes book) **GRADE 10-11-12**

Students will be given instruction in test-taking strategies common to both tests as well as strategies that are unique to each test. Content of each test Math, Reading, Writing, and Science will be reviewed. Students will take actual ACT[®] or SAT quizzes and practice tests and receive test scores and explanations. This course will be scheduled accordingly.

TITLE **ACCOUNTING** **CREDIT 1**

COURSE #0702 **GRADE 10-12**

PREREQUISITE/S None

DESIGN OF COURSE To expose students to the fundamentals of introductory accounting procedures and practices. In addition, entrepreneurship and the stock market will be introduced.

CONTENT To learn the basic accounting equation, business transactions, general journal, posting, financial statements, end-of-period adjustment, check writing, bank reconciliation statement and actual accounting procedures for one month of a business period.
 Accounting procedures for sole proprietorship and partnerships will be covered. Computerized accounting procedures will be used throughout the year.
 The second half of the year, entrepreneurship will be covered. Students will participate in a project that will allow them to create a business of their choice.
 In addition, the stock market game will be played through PA Economics.

TITLE **MULTIMEDIA/WEB DESIGN** **CREDIT 1**

COURSE #0705 **GRADE 10-12**

PREREQUISITE/S At least one computer elective or above-average computer skills.

DESIGN OF COURSE This one-year course is designed to enable students to develop five key skill areas: design, web-authoring tools, animation, video editing and project management. All areas follow the National Educational Technology Standards for Students.

SOFTWARE USED: Macromedia Dreamweaver, Fireworks, Flash,,HTML, and Adobe Premiere Elements.

CONTENT Students will develop skills that lay the foundation for producing web-ready communications: graphics, design principles, storyboards, development, peer review and redesign. Students will develop a variety of graphical images, a web-based electronic portfolio, a web photo album, interactive graphics, animation, and a variety of web pages. In addition, the class builds on student design and development skills. Finally, video projects will be created using Premier Elements.

TITLE	<u>FAMILY & CONSUMER SCIENCE</u>	CREDIT	1
COURSE #0801		GRADE	9-12
PREREQUISITE/S	None		
DESIGN OF COURSE	An introductory course designed to help students develop everyday living skills.		
CONTENT	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 will be taught in all areas.		

TITLE	<u>CULINARY ARTS/CHILDCARE</u>	CREDIT	1
COURSE #0802		GRADE	10-12
PREREQUISITE/S	None, although it would be helpful to have taken <i>Family & Consumer Sciences</i> #0801 prior to this course.		
DESIGN OF COURSE	This course includes one semester of <i>Culinary Arts</i> and one semester of <i>Childcare</i> . Two different courses combined into a one-year course.		

CONTENT **Culinary Arts** teaches basic cooking skills, nutrition, and food laboratory work. Food industry careers and entrepreneurship will be discussed.

Childcare will explore prenatal development, child development and parenting issues. Students will learn skills to properly care for children from birth to adolescence. Observations and hands-on experiences included

TITLE	<u>INDEPENDENT LIVING</u>	CREDIT	1
COURSE #0803		GRADE	12
PREREQUISITE/S	None		
DESIGN OF COURSE	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.		
CONTENT	Students learn to manage money and properly choose a wardrobe and care for clothing. Housekeeping, home furnishings, housing styles and floor plans 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.		

TITLE	<u>APPLYING TECHNOLOGIES</u>	CREDIT	1
COURSE #0808		GRADE	9-12
PREREQUISITE/S	None		
DESIGN OF COURSE	Applying technologies is an introductory course to the technology department that will focus on various skills and concepts through hands-on activities. Upon completion of this course, students will be able to successfully complete an entire project independently.		
CONTENT	Students will learn several concepts in areas such as, Drafting & Design, Manufacturing, Transportation and Construction. Students will also be able to safely demonstrate their abilities by using several different hand and power tools. All finished products will be evaluated by the instructor and student. Materials will be paid for by the student, with an approximate cost of \$25.00.		

TITLE	<u>MANUFACTURING & CONSTRUCTION TECHNOLOGIES</u>	CREDIT	1
COURSE #0810		GRADE	10-12
PREREQUISITE/S	Applying Technologies or Industrial Technologies		
DESIGN OF COURSE	Manufacturing and Construction Technologies will focus on specific areas and skills within the two areas. It will allow students to become capable of performing various skills independently within the manufacturing and construction fields.		
CONTENT	Manufacturing activities will include production, design, creation, construction, marketing, and implementation of a student chosen product. Construction activities within this class will include complex wall layout, plumbing, electricity, and interior applications. Approximate lab fees will be \$25.00.		

TITLE	<u>DRAFTING & DESIGN</u>	CREDIT	1
COURSE #0809		GRADE	9-12
PREREQUISITE/S	None		
DESIGN OF COURSE	Drafting and Design will allow students to achieve a comprehensive view of the design world. Upon completion of this course, students will be prepared for a college level course in the areas of Mechanical Drafting and CAD.		
CONTENT	Students will first learn basic mechanical drafting skills and concepts by completing a variety of hand drawings. Once students are proficient with mechanical drafting, they will advance to completing Computer Aided Drawings (CAD) on computers.		

TITLE	<u>CONCERT CHOIR</u>	CREDIT	1
COURSE #0905		GRADE	9-12
PREREQUISITE/S	None		
DESIGN OF COURSE	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.		
CONTENT	This course provides vocal training in breath support, throat relaxation, 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 and fundraisers.		

TITLE	<u>MUSIC THEORY</u>	CREDIT	1
COURSE #0904		GRADES	10-12
PREREQUISITE/S	Students must have a basic background in music with knowledge of reading musical notation. Students must be in grades 10, 11 or 12. Students should have acquired at least basic performance skills in voice or on an instrument. Students should seek approval by the instructor before signing up.		
DESIGN OF COURSE	This course is designed to prepare students for a college major or minor in music, entrance music exams, and to teach the internal workings of music, music notation, and ear training. These ends are met through analysis, composition, sight singing, musical dictation, and other similar activities.		
OBJECTIVES	The main objective of Music Theory is to develop and enhance students' abilities to recognize, identify, understand, describe, and process basic musical concepts as they are presented aurally or in a musical score. These objectives are met via training in aural skills, sight-singing skills, written skills, compositional skills, and analytical skills. Students will hone these skills through listening exercises, in-class performances, written exercises, creative exercises, and analytical exercises.		
CONTENT	This course will address many topics, including the following: musical notation, intervals, scales, key signatures, chords, meter, rhythmic patterns, musical dictation, sight-singing, compositional techniques, figured bass realization, roman numeral analysis and realization, analysis or repertoire, triadic harmony, total relationships, modulations, phrase structure, small forms, non-chord tones, and secondary dominant chords. Ear training is of the utmost importance and is stressed in this course, as is musical dictation. Sight-singing and basic keyboard skills are also addressed.		
TITLE	<u>BAND</u>	CREDIT	1
COURSE #0907		GRADES	9-12
PREREQUISITE/S	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.		
DESIGN OF COURSE	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.		

CONTENT 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) as well as school assembly concerts when applicable. The band also prepares and performs as the “pep band” at select basketball games.

GRADING 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.

TITLE	<u>DRAWING</u> (Art 1)	CREDIT	1
COURSE #0911		GRADE	9-12
PREREQUISITE/S	None		

DESIGN OF COURSE This course is designed to give students the foundation needed to continue with future art courses.

CONTENT Students develop skills in drawing and an ability to create and understand good design and composition. Students will work with a variety of materials and experiment with several styles. The study of past and present artists will also be introduced.

TITLE	<u>MIXED MEDIA</u> (Art 2)	CREDIT	1
COURSE #0912		GRADE	10-12
PREREQUISITE/S	Drawing		

DESIGN OF COURSE This course is designed to prepare students interested in majoring in art at a college level, although, it can be enjoyed by anyone interested in art.

CONTENT Students will be introduced to several different media and several different ways to use those media. Art history will be an integral part of this class.

TITLE	<u>INDEPENDENT ART</u> (Art 3)	CREDIT	1
COURSE #0913		GRADE	11-12
PREREQUISITE/S	Drawing & Mixed Media		

DESIGN OF COURSE This course is designed to enable students to apply knowledge gained in drawing and mixed media to produce large-scale independent works.

CONTENT Emphasis will be placed on independent creative thinking. Students will concentrate on building a strong portfolio of works.

TITLE **ADVANCED ART (Art 4)** **CREDIT 1**

COURSE #0915 GRADE 11-12

PREREQUISITE/S Drawing, Mixed Media and Independent Art

DESIGN OF COURSE This course is designed to enable students to apply advanced knowledge gained in drawing and mixed media to produce large-scale independent works.

CONTENT Emphasis will be placed on independent creative thinking. Students will concentrate on building a strong portfolio of works.

TITLE **PHYSICAL EDUCATION 1** **CREDIT .50**

COURSE #1001 GRADE 9

PREREQUISITE/S None

DESIGN OF COURSE The students are scheduled for a Physical Education class that will alternate between Technology and Physical Education throughout the entire school year. It is a graded course based on participation, skill and knowledge.

CONTENT The 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.

TITLE **PHYSICAL EDUCATION 2** **CREDIT .3**

COURSE #1002 GRADE 10

PREREQUISITE/S Physical Education 1

DESIGN OF COURSE The students are scheduled for Physical Education class three times per week for one semester. It is a graded course based on participation, skill and knowledge.

CONTENT The 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.

TITLE	<u>PHYSICAL EDUCATION 3</u>	CREDIT	.4
COURSE #1003		GRADE	11
PREREQUISITE/S	Physical Education 2		
DESIGN OF COURSE	The structure is health three days per week and physical education on the opposite two days. It is a graded course based on participation, skill and knowledge.		
CONTENT	The 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.		

TITLE	<u>PHYSICAL EDUCATION 4</u>	CREDIT	.4
COURSE #1005		GRADE	12
PREREQUISITE/S	Health/Physical Education 3		
DESIGN OF COURSE	The students are scheduled for Physical Education class twice per week for the entire school year. It is a graded course based on participation, skill and knowledge		
CONTENT	The 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.		

TITLE	<u>HEALTH</u>	CREDIT	.6
COURSE #1004		GRADE	11
PREREQUISITE/S	Physical Education 2		
DESIGN OF COURSE	The structure is health three days per week and physical education on the opposite two days.		

CONTENT The purpose of this course is to provide students with information and skills needed to become health literate, to improve one's health status, to prevent disease and to reduce health related risk behaviors. Information presented will include: mental and emotional health; family and social health, growth and development; nutrition; personal health; alcohol, tobacco and other drugs; diseases; consumer health; environmental health and injury prevention and safety.

TITLE	<u>SAFETY EDUCATION</u>	CREDIT	.3
COURSE #1101		GRADE	10-11

PREREQUISITE/S Usually Sophomore year or close to 16th birthday.

DESIGN OF COURSE A minimum of 30 hours of classroom instruction.

CONTENT The course is designed to acquaint the student with the highway traffic system, through the utilization of the text, speakers, and relevant videos.

TITLE	<u>BASIC SKILLS - TECHNOLOGY</u>	CREDIT	.50
COURSE #1401		GRADE	9

PREREQUISITE/S None

DESIGN OF COURSE This course is designed to expose students to basic computer application skills and integrating technology into career planning. An emphasis will be placed on introducing the students to the electronic portfolio graduation project.

CONTENT Basic Skills-Technology is an exploratory class of several computer application programs. The following areas will be covered: word processing, spreadsheets, desktop publishing and slide show presentation skills. Microsoft Office 2003 will be used. Students will begin producing their electronic portfolio. The 9th grade portfolio requirements will be completed in Basic Skills-Technology and Lit/Comp 1 class.

TITLE	<u>MERCER COUNTY CAREER CENTER</u>	CREDIT	3
COURSE #1200		GRADE	11-12

PREREQUISITE/S Application must be filed with faculty recommendations. In order to be recommended to attend the Career Center, students must have passed all of their required coursework **prior** to beginning the Career Center program.

Part of Sharpsville Area High School's program is conducted at the Mercer County Career Center. Sharpsville students attending the Career Center will take classes at the Career Center in the morning and classes at Sharpsville High School in the afternoon.

All courses offered are non-discriminatory with opportunities available to males and females in each.

All programs are competency based. Courses will be completed in 2 years (3 years for cosmetology.)
Seniors can attend for 1 year if they so choose.

CAREER CENTER STUDENTS
COURSE SEQUENCE
(Two-Year Program)

GRADE 11

Lit/Comp. III
Math
Science
Physical Education
Health

GRADE 12

Lit/Comp. IV
Math
Psychology
Physical Education

Mercer County Career Center
Course Descriptions 2013-14

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

Ninety percent of your training is hands-on! You practice your skills while working on trainers, customer cars, and your own car. Training is based on Automotive Service Excellence (ASE) Standards and includes: Brakes, Electrical Systems, Engine Performance, Suspension and Steering. Students can expand their studies into small engine repair, high performance engine work and earn their state inspection and emission certifications.

Building Trades Maintenance

The one course “cluster”. Students learn basic skills in Electricity, Masonry, Plumbing, Carpentry, and HVAC/R (Heating, Ventilating, Air Conditioning, Refrigeration). Many students develop advanced skills in one or more of these technical areas. Students will learn to safely operate a wide variety of hand tools and power machinery. During the first year students study and develop skills in all of the program areas. In the second year students are encouraged to specialize in one of the program areas.

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 and Office Technology

Computer and Office Technology prepares students for an interesting and challenging career using computers or working in a business setting, in the field of graphic design or web design using the latest equipment and software. Use your creative talents to edit photos, design and maintain web pages, use the internet effectively, and prepare business documents. If you “make things happen”, like variety, are organized, and creative, a career using computerized office technology is for you.

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.

Electronics Technology

Unravel the mysteries and excitement of the world of electronics using exciting, fun, hands-on projects. Have you ever wondered how your cellular phone works? What's inside your television? You will understand all as you Build-N-Learn exciting projects that open doors to many career and post-secondary training opportunities. Using the latest technology you build telephones, security alarm systems and rockets. This exciting project-based learning system enables you to progress at your own pace to unlock your future, preparing you for the workplace or post-secondary education.

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 Avalon Springs Nursing Center.

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.

Protective Services

Open the doors to many career and post-secondary training opportunities related to planning, managing, and providing public safety and homeland security. Certification opportunities include: Emergency Medical Technician, Jail Officer, 911 Dispatcher and Basic Life Support for Healthcare Provider. Enroll for two or three years and earn all certifications or just one year for a specific certification. You will investigate crime scenes, practice emergency medical procedures and participate in training like StatMedevac Landing Zone and Terrorism Awareness. Here are just some of the career opportunities you create: Police Officer, Emergency Medical Technician, Paramedic, Fish and Game Officer, and Probation Officer.

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

SHARPSVILLE AREA HIGH SCHOOL COURSE SELECTIONS 2013-14

All courses offered at the Sharpsville Area High School are co-educational. The Sharpsville Area School District does not discriminate on the basis of race, sex, color, handicaps, creed, age or national origin in administration of its educational policies.

<u>Course#</u>	<u>Course Name</u>	<u>Gr. Level</u>	<u>Credit</u>
0101	Literature & Composition 1	9	1
0103	Literature & Composition 2	10	1
0106	Journalism 1	10-11-12	1
0107	Journalism 2	11-12	1
0108	Journalism 3	12	1
0110	Literature & Composition 3	11	1
0111	Literature & Composition 4	12	1
0112	<i>AP Language</i> and Composition	11-12	1
0113	<i>AP Literature</i> and Composition	12	1
0301	U.S. History	9	1
0302	20 th Century World History	10	1
0303	U.S. Government	11	1
0304	Psychology/Economics	12	1
0305	AP History	11-12	1
0306	Current Events	10-12	1
0401	Academic Biology	9-10	1.4
0402	Conceptual Chemistry	10-12	1
0403	Chemistry	10-12	1.4
0404	AP Chemistry	12	1.6
0405	Conceptual Physics	11-12	1
0406	Physics	11-12	1.4
0407	Human Anatomy & Physiology	11-12	1
0408	Environmental Science	11-12	1
0413	AP Biology	12	1.6
0418	Physical Science	10	1
0419	Physics II	12	1.4
0420	University of Pittsburgh Physics	11-12	1
0501	Algebra		1
0502	Geometry		1
0504	Academic Algebra 1		1
0505	Academic Geometry 1		1
0529	Algebra 2		1
0508	Academic Algebra 2		1
0510	Academic Algebra 3/Trigonometry		1
0512	Beginning Calculus		1
0513	University of PITT Calculus		1

0515	University of Pittsburgh Business Calculus for Business		1
0524	Intro to Probability & Statistics		1
0525	AP Probability & Statistics		1
0530	SAT/ACT Prep Class	10-11-12	* Varies by grade
0602	Spanish 1	9-12	1
0604	Spanish 2	10-12	1
0605	Spanish 3	11-12	1
0606	Spanish 4	12	1
0609	Chinese 1	9-12	1
0610	Chinese 2	10-12	1
0702	Accounting	10-12	1
0705	Multimedia/Web Design	10-12	1
0801	Family & Consumer Science	9-12	1
0802	Culinary Arts/Childcare	10-12	1
0803	Independent Living	12	1
0808	Applying Technologies	9-10	1
0809	Drafting & Design	9-12	1
0810	Manufacturing & Construction Tech.	10-12	1
0904	Music Theory	11-12	1
0905	Concert Choir	9-12	1
0907	Band	9-12	1
0911	Drawing	9-12	1
0912	Mixed Media	10-12	1
0913	Independent Art	11-12	1
0915	Advanced Art	11-12	1
1001	Physical Education 1	9	.50
1002	Physical Education 2	10	.30
1003	Physical Education 3	11	.40
1004	Health	11	.60
1005	Physical Education 4	12	.40
1101	Safety Education	10-11	.30
1200	Mercer County Career Center	11-12	3
1401	Basic Skills-Computer Technology	9	.50

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