

# Cambria Heights High School 2019-2020 Course of Study



*The Cambria Heights community will enable students to meet the challenges of life by becoming lifelong learners and responsible citizens.*

~ Mission Statement of the Cambria Heights School District

- If you have questions about your child's schedule or program of study, please call the Guidance Department at 814/674-3601.
  - Mr. Koss – Extension 3328 (*Classes of 2021 and 2023*)
  - Mrs. McCullough – Extension 3327 (*Classes of 2020 and 2022*)

## INTRODUCTION

Cambria Heights High School's Course of Study is designed to help students make important decisions about their education. A student's choice of a curricular track and electives should be based on his or her interests, abilities, and plans for post-secondary education.

Cambria Heights High School's graduation requirements fulfill the statewide requirements prescribed by the Pennsylvania Department of Education and are enacted as policy by the Cambria Heights Board of School Directors. However, post-secondary colleges or universities may have more stringent admissions requirements. If a student plans to attend a post-secondary institution, he/she should select classes necessary for enrollment. Additionally, colleges usually require that students take the SAT I: Reasoning Test or the ACT (American College Test) prior to admission. Students should become familiar with the entrance requirements of the post-secondary institutions they plan to attend.

In addition, students are encouraged to consult the Guidance Department to find information on careers, post-secondary institutions, and financial aid. The Guidance Department has two counselors that are available for assistance. However, it is the responsibility of the student to make the final selection of courses and to make sure the total number of credits and the courses selected meet the requirements for graduation.

All students will be required to complete the following requirements. Chapter 4 section 4.24 regulation of the Pennsylvania Department of Education states: "Each district shall specify requirements for graduation in the strategic plan." At Cambria Heights, those requirements shall include:

1. Successful completion of 24 credits in the following areas:

<b>Courses</b>	<b>Credits</b>
English	4
Social Studies	3
Science	3
Mathematics	3
Health & Physical Education	2
Electives	9
2. Successful completion of a culminating graduation project (Senior Seminar).
3. Demonstration of proficiency on the Keystone Exams or related Project-Based Assessment or local assessment in Biology, Algebra I, and Literature (subject to change by the state legislature).
4. Scheduling four years of Math and/or Science courses (with the exception of students attending Admiral Peary Vocational Technical School).

5. Completion of any additional requirements as set forth by the Pennsylvania Department of Education.

To be classified as a senior, a student must have successfully completed three (3) years of English, be working toward completion of a graduation project, and be able to complete the credits needed for graduation during the senior year.

## **SCHEDULING**

Each spring, students will complete a schedule of their required and preferred courses for the next school year. Students must schedule 7.0 credits per school year unless granted an exception by the Principal or Guidance Department. (Cases for exception include, but are not limited to, scheduling of dual-enrollment courses with lab periods and scheduling of Keystone remediation or Project Based Assessments.) Students will rank their preferred electives; however, admission to elective courses will be based upon teacher availability and each student's individual schedule.

A student should carefully consider scheduling a course in sequence whenever he/she earned a grade of less than 74% in the preceding course. Many departments offer courses in sequence, with certain courses being prerequisites for other courses. Course offerings are affected by student demand and/or teacher availability.

Electives are courses that students can schedule after they have met state and district requirements for core credits. Students attending Admiral Peary Vocational-Technical School (APVTS) will receive 3.0 elective credits per year for earning a passing grade in their programs of study at vo-tech.

Cambria Heights High School utilizes a weighted grading system for some of its courses. Enriched English 9, Honors English 10 and 11, and Honors Physics have a weighted value of 1.05. All dual-enrollment courses (with the exception of Microcomputer Applications, Visual Basic Programming, and Anatomy and Physiology I and II) have a weighted value of 1.1. The weighted system will be used to determine GPA, Class Rank, National Honor Society eligibility, and Academic Banquet awards. A student's weighted GPA and unweighted GPA will appear on his or her report card.

## **COLLEGE CREDIT OPPORTUNITIES**

Cambria Heights offers multiple classes for college credit through PA Highlands Community College, Mount Aloysius College, and Saint Francis University. Students enrolled in the following classes may receive credits from the listed post-secondary institutions for a reduced fee. Further information on these programs may be obtained from the teachers of the classes. A list of the classes, post-secondary institutions granting credit, and credit amounts are as follows:

College Reading and Writing	PA Highlands Community College (3)
College Biology	Mount Aloysius College (4) Saint Francis University (4)
College Chemistry	Saint Francis University (3) Mount Aloysius (4)
College Calculus	PA Highlands Community College (4) Mount Aloysius College (4)
Anatomy & Physiology	PA Highlands Community College (4) Mount Aloysius College (4)
Anatomy & Physiology II	PA Highlands Community College (4)
Microcomputer Applications	PA Highlands Community College (3)
Visual Basic Programming	PA Highlands Community College (3)
College Psychology	Mount Aloysius College (3)

## PROGRAMS OF STUDY

### **Educational Tracks:**

Cambria Heights High School offers a diverse academic curriculum that is outlined in further detail throughout this document. Upon entering the high school, students will select the **UNIVERSITY TRACK** or the **ASSOCIATE/CAREER TECHNOLOGY TRACK**. Students may not select the **VOCATIONAL-TECHNICAL PATHWAY** until grade 10.

All students enrolled in the **UNIVERSITY TRACK** are given rigorous academic classes not only as a part of four year college admission requirements, but also to understand the rigor and study habits essential for the successful completion of college programs. Due to various foreign language requirements at different colleges and universities, it is up to the student to know and understand the requirements for admission. **Therefore, it is recommended that students take two or more years of a foreign language to be certain they meet college admission requirements prior to applying for acceptance.**

Due to the changing twenty-first century demands for employees with technical and trade skills, Cambria Heights High School is committed to providing students an opportunity to enter the workforce upon graduation or to enroll in a two year trade

school or Associate Degree program. Students enrolled in the **ASSOCIATE/CARREER TECHNOLOGY TRACK** are given advanced technical and academic courses to prepare them for the workforce, an education that can lead to a two year Associate Degree, and/or the opportunity to continue their education toward a four year degree.

**Admiral Peary Vocational-Technical School:**

Admiral Peary Area Vocational-Technical School, located in Ebensburg, provides local school districts the opportunity to enhance the school curriculum by providing career education in the following areas: Small Engine Mechanics, Auto Body, Auto Technology, Carpentry, Early Childhood Education, Cosmetology, Electrical Technology, Culinary Arts, Health Assisting, Heating - Ventilation & Air Conditioning/Plumbing, Masonry, Engineering Technology (MET/CAM), Network Technology, and Welding.

Students enrolled at Admiral Peary spend their mornings at the vocational-technical school and their afternoons at Cambria Heights High School, where they receive the required courses necessary for graduation as specified by the Pennsylvania Department of Education. Separate course descriptions on all Admiral Peary Vocational-Technical programs are available at the high school or from Admiral Peary.

Any student initially scheduled for classes at Admiral Peary will be permitted to return to the high school **during the first five days of the school year**. However, after the first five days of the student's initial year at Admiral Peary, a student who has not made a schedule change may be required to complete the entire school year at Admiral Peary. Any student who initially desires to attend Admiral Peary must be passing all of his/her major courses at the end of the third marking period. Enrollment is not permitted by Cambria Heights until the student passes all major subjects for the school year.

**Enrollment in College while in High School:**

Students who take courses at an accredited college while they are still in high school may use those courses to advance in an academic area at Cambria Heights. However, the students cannot receive credits for these courses at Cambria Heights and the college courses will not appear on students' high school transcripts. Each student must submit to the guidance office an official transcript from the college or university verifying he/she received a grade and credit for the course in order to advance academically.

**Parental Permission for Schedule Completion:**

Each student must obtain a parent's or guardian's signature on his/her proposed schedule for the upcoming school year. In the event a student feels a change in

his/her schedule should be made, the student should complete the necessary paperwork in the Guidance Office. **This paperwork must be completed by April 4, 2019** to allow the Guidance Department to begin preliminary schedule work. **Absolutely no schedule changes will be made after May 31, 2019.**

## KEYSTONE EXAMS

On October 24, 2018, Governor Tom Wolf signed into law Senate Bill 1095, which set forth multiple avenues by which a student can graduate from a Pennsylvania high school without passing the Keystone Exams. Senate Bill 1095 will expand the options for students to demonstrate readiness for postsecondary success using additional pathways that more fully illustrate college, career, and community readiness (Source: PDE). These new pathways to graduation can be found online at <https://www.education.pa.gov/K12/Assessment%20and%20Accountability/Pages/GraduationRequirements.aspx> and are applicable to the classes of 2022 and beyond. For the graduating classes of 2020 and 2021, Chapter 4 graduation requirements for course completion, grades, and demonstration of proficiency as determined by the school district will remain in effect. It's important to note that students must continue to take Keystone Exams, as the Keystone Exams are used as a statewide assessment for federal accountability purposes.

## COLLEGE ATHLETICS / NCAA ELIGIBILITY

Students who are interested in playing collegiate athletics at the Division I, II, or III level should create an account on the NCAA Eligibility Center website. Please visit [http://fs.ncaa.org/Docs/eligibility\\_center/Student\\_Resources/Registration\\_Checklist.pdf](http://fs.ncaa.org/Docs/eligibility_center/Student_Resources/Registration_Checklist.pdf) or talk to your Guidance Counselor for more information.

## RECOMMENDED COURSES OF STUDY

### UNIVERSITY TRACK

#### **Ninth Grade:**

Credit/Subject

1.00	English 9 (A) or Enriched English 9
1.00	U.S. Cultures 1
1.00	Academic Biology
1.00	Algebra 1 (A) or Algebra 2 (A)
1.00	Spanish 1
0.50	Health/Physical Education
0.50	Computers/Keystone Prep
1.00	One of the Following Electives: Concert Band, Chorale, Audio Media Technology, Technology Education 1, or Exploratory Courses

**\*\*If students wish to enroll in Concert Band, Spanish, and Chorus, the latter will only count for 0.50 credits on the students' transcripts.**

**Tenth Grade:**

Credit/Subject

1.00	English 10 (A) or English 10 Honors
1.00	Western Civilization and Government
1.00	Chemistry 1
1.00	Algebra 2 (A) or Geometry (A)
1.00	Spanish 2
0.50	Physical Education
0.25	Computer Applications
0.25	Driver's Education
0.25	Career Readiness 10
1.00	One of the Following Electives: Concert Band, Chorale, Technical Education II, Music Theory, Nutrition and Foods, or Art 10 (one semester) and Technical Drafting 2 (one semester)

**Eleventh Grade:**

Credit/Subject

1.00	English 11 (A) or English 11 Honors
1.00	U.S. Cultures 2
1.00	Geometry (A), College Algebra, or Pre-Calculus
1.00	<b>Recommended:</b> One of the Following Science Electives: College Biology, College Chemistry, Anatomy & Physiology I, Physics, or Honors Physics
0.50	Physical Education
0.50	SAT Math / SAT Reading
0.25	Career Readiness 11
2.00 or 3.00	Electives

**Twelfth Grade:**

Credit/Subject

1.00	English 12 (A) or College Reading & Writing
1.00	Physics, Honors Physics, or a Dual-Enrollment Science Course
1.00	College Algebra, Pre-Calculus, or College Calculus
0.50	Physical Education
0.50	Senior Seminar
3.00	Electives

Please note that Dual Enrollment courses are for students in grades 11 and 12.

**ASSOCIATE/CAREER TECHNOLOGY TRACK**

**Ninth Grade:**

Credit/ Subject

1.00	English 9 (A) or English 9 (B)
1.00	U.S. Cultures 1
1.00	Academic Biology Applied Biology-Chemistry 1
1.00	Math 9 or Algebra 1 (B)
0.50	Health/Physical Education
0.50	Computers/Keystone Prep

- 1.00 One of the Following Electives: Concert Band, Chorale, Audio Media Technology, Technology Education 1, or Exploratory Courses
- 1.00 Spanish 1 or Any Remaining Elective

**Tenth Grade:**

Credit/ Subject

- 1.00 English 10 (A) or English 10 (B)
- 1.00 Western Civilization and Government
- 1.00 Chemistry Applied Biology-Chemistry 2
- 1.00 Algebra 1 (B) or Algebra 2 (B)
- 1.00 CAD I
- 0.50 Physical Education
- 0.25 Computer Applications
- 0.25 Driver's Education
- 0.25 Career Readiness 10
- 1.00 One of the Following Electives: Chorale, Concert Band, Music Theory, Technical Education II, Spanish I or II, or Nutrition and Foods

**Eleventh Grade:**

Credit/ Subject

- 1.00 English 11 (A) or English 11 (B)
- 1.00 U.S. Cultures 2
- 1.00 Applied Physics 1 or Science Elective
- 1.00 Algebra 2 (B) or Geometry (B)
- 0.50 Physical Education
- 0.50 SAT Math / SAT Reading
- 0.25 Career Readiness 11
- 2.00 Electives

**Twelfth Grade:**

Credit/ Subject

- 1.00 English 12 (A) or English 12 (B)
- 1.00 Algebra 3/Financial Math
- 1.00 Environmental Science, Applied Physics, or Science Elective
- 0.50 Physical Education
- 0.50 Senior Seminar
- 3.00 Electives

**VOCATIONAL-TECHNICAL CAREER PATHWAY**

**Three Year Sequence**

Grades 10-11-12

**Tenth Grade:**

- 1.00 English 10 (A) or English 10 (B)
- 1.00 Algebra 1 (B) or Algebra 2 (B)
- 1.00 Western Civilization and Government
- 3.00 Selected Career Training Program  
(at Admiral Peary)
- 0.25 Career Readiness 10
- 0.50 Physical Education
- 0.25 Driver's Education

**Two Year Sequence**

Grades 11-12

**Tenth Grade:**

- 1.00 English 10 (A) or English 10 (B)
- 1.00 Algebra 1 (B) or Algebra 2 (B)
- 1.00 Applied Bio.-Chem. 2
- 1.00 Western Civilization and Govt.
- 1.00 CAD 1 or Nutrition and Foods
- 0.25 Career Readiness 10
- 0.50 Physical Education
- 0.25 Computer Applications

0.25 Driver's Education

**Eleventh Grade:**

- 1.00 English 11 (A) or English 11 (B)
- 1.00 Algebra 2 (B) or Geometry (B)
- 1.00 Applied Physics 1 or Science Elective
- 3.00 Selected Career Training Program  
(at Admiral Peary)
- 0.25 Career Readiness 11
- 0.50 Physical Education

**Twelfth Grade:**

- 1.00 English 12 (A) or English 12 (B)
- 1.00 Street Law/U.S. Cultures 2
- 1.00 Environmental Science or Sci. Elective
- 3.00 Selected Career Training Program  
(at Admiral Peary)
- 0.50 Physical Education
- 0.50 Senior Seminar

**Eleventh Grade:**

- 1.00 English 11 (A) or English 11 (B)
- 1.00 Algebra 2 (B) or Geometry (B)
- 1.00 Applied Physics 1 or U.S. Cult. 2
- 3.00 Selected Career Training  
Program (at Admiral Peary)
- 0.25 Career Readiness 11
- 0.50 Physical Education

**Twelfth Grade:**

- 1.00 English 12 (A) or English 12 (B)
- 1.00 Algebra 3/Financial Math
- 1.00 Enviro. Science or Street Law
- 3.00 Selected Career Training  
Program (at Admiral Peary)
- 0.50 Physical Education
- 0.50 Senior Seminar

Please note that not all electives will be available to students in the vocational-technical career pathway due to their morning attendance at Admiral Peary.

## CURRICULUM: COURSE LISTING

<u>COURSE</u>	<u>CREDIT</u>	<u>COURSE</u>	<u>CREDIT</u>	<u>COURSE</u>	<u>CREDIT</u>
Senior Art	1.0	Spanish 5	1.0	Nutrition and Foods	1.0
Junior Art	1.0	Spanish 4	1.0	Relationships and	1.0
Art 10	0.5	Spanish 3	1.0	Child Development	
Art 9	0.25	Spanish 2	1.0		
		Spanish 1	1.0		
		Online Foreign Language	1.0	Exploratory Tech. Ed.	0.25
Computers/Keystone Prep	0.5			Technology Educ. I	1.0
Computer Applications	0.25	College Calculus	1.0	Technology Educ. II	1.0
SAT Math	0.25	Pre-Calculus	1.0	Technology Educ. III	1.0
SAT Reading	0.25	College Algebra	1.0	Technology Educ. IV	1.0
Senior Seminar	0.5	Algebra 3 / Financial Math	1.0	CAD 1	1.0
Career Readiness 10	0.25	Geometry (A)	1.0	CAD 2	1.0
Career Readiness 11	0.25	Geometry (B)	1.0	Technical Drafting 1	0.25
Freshman Seminar	0.25	Algebra 2 (A)	1.0	Technical Drafting 2	0.5
Drivers Education	0.25	Algebra 2 (B)	1.0		
Microcomputer Apps. /	1.0	Algebra 1 (A)	1.0	US Cultures 1	1.0
Visual Basic Programming		Algebra 1 (B)	1.0	US Cultures 2	1.0
Computer Programming	1.0	Math 9	1.0	Western Civ. and Govt.	1.0
Principals of Supportive Studies	0.5			Street Law	1.0
Principals of Supportive Studies	1.0	Contemp. Music Ensemble	1.0	Psychology	1.0
		Vocal Extension	0.5	College Psychology	1.0
College Reading/Writing	1.0	Music Theory	1.0		
English 12 (A)	1.0	Concert Band	1.0	Vo-Tech PE Boys	0.5
English 12 (B)	1.0	Chorale 9 <sup>th</sup> -12 <sup>th</sup>	1.0	Vo-Tech PE Girls	0.5
Honors English 11	1.0	Chorale 9 <sup>th</sup> -10 <sup>th</sup>	0.5	Phys. Ed. 9 <sup>th</sup> Boys	0.3
English 11 (A)	1.0	Audio Media Technology	1.0	Phys. Ed. 9 <sup>th</sup> Girls	0.3
English 11 (B)	1.0			Phys. Ed. 10 <sup>th</sup> -12 <sup>th</sup> Boys	0.5
Honors English 10	1.0	Academic Biology	1.0	Phys. Ed. 10 <sup>th</sup> -12 <sup>th</sup> Girls	0.5
English 10 (A)	1.0	College Biology	1.2	Health 9 <sup>th</sup>	0.2
English 10 (B)	1.0	Applied Bio/Chem 1	1.0		
Enriched English 9	1.0	Applied Bio/Chem 2	1.0		
English 9 (A)	1.0	Chemistry	1.0	Courses taken at	
English 9 (B)	1.0	College Chemistry	1.2	Admiral Peary	3.0
Reading Intensive English 10	1.0	Anatomy & Physiology	1.0		
Reading Intensive English 11	1.0	Anatomy & Physiology 2	1.0		
Reading Intensive English 12	1.0	Honors Physics	1.0		
Desktop Publishing	1.0	Physics	1.0		
Journalism	0.5	Applied Physics 1	1.0		
		Environmental Science	1.0		
Biology Remediation	0.25				
Algebra I Remediation	0.25				
Literature Remediation	0.2				

## **COURSE TITLES AND DESCRIPTIONS**

### **ART**

#### **Senior Art**

The student will be further introduced to new facets of the visual arts. The student will be further instructed in the effective utilization and employment of the basic elements and principles of design. The student will be instructed in the basic concepts, procedures, and expectations of creating works of art, and analyzing, evaluating, and constructively criticizing his/her own creations, and the works of others, and being able to rationalize and defend such criticisms. The student will continue the developmental process of formulating and employing effective and creative problem-solving strategies.

This course provides an opportunity to study composition (figure drawing and three-dimensional design), theater arts, printmaking, and graphic design (advanced commercial art).

- *Prerequisite: In order to be accepted into Senior Art, a student must have achieved a competency level of 90% in Junior Art.*

#### **Junior Art**

The students will be introduced to the basic Elements and Principles of Design and will be assigned student projects, which will require the student to effectively utilize and employ these considerations, in order to reinforce their introduction to these facets of art. The student will be instructed in the basic concepts, procedures, and expectations of creating, analyzing, and judging original works of art of their own production, and the works of others. The student will extend and elaborate upon the basic elements and principles to which he/she was introduced during the Eighth Grade Arts and Humanities Course. The student will explore in greater depth, modify, and refine previously learned skills and technical processes, analytical/judgmental skills, and problem-solving strategies.

Art classes are not just for the artistically talented student; however, these classes are intended for all students who are interested in the study of the fine arts. The emphasis in this course is on drawing (all media), color (design), painting (water color and mixed media), theater arts, graphic art (printmaking), commercial art, and illustration. The emphasis of this course will be on providing the student with a strong background for further creative and artistic study. This course is open to all 11th grade students.

- *Prerequisite: In order to be accepted into Junior Art, a student must have achieved a competency level of 85% in 8<sup>th</sup> grade Art. The instructor reserves the right to consult the 8<sup>th</sup> grade Art teacher regarding the student's performance during the 8<sup>th</sup> grade year.*

### **Art 10**

This course will serve to reinforce the basic elements, principles, and technical processes. The students will additionally start to explore various facets of the design process, and will experiment with various newly incorporated media and techniques. The students will also be exposed to basic architectural concepts and projects.

### **Art 9**

The objective of this course is to introduce the student to the basic elements and principles of design theory. The students will receive extensive training in sketching landscapes, the human figure, architectural forms, and still life. Perspective theory will also receive fairly comprehensive coverage. The students will also be introduced to basic colour theory and basic painting techniques and will render paintings in acrylic and watercolour.

## **ENGLISH**

### **College Reading and Writing**

College Reading and Writing is a dual enrollment course which corresponds to Pennsylvania Highlands English 110—English Composition. This course will focus on the techniques of writing expository essays, stressing word choice, sentence structure, organization, purpose, and audience awareness. Editing skills, including the use of correct grammar and mechanics, will also be emphasized. Given the whole year structure for the class, there will be a number of readings, both fiction and nonfiction, incorporated into the course.

- *Prerequisites: This course is open to seniors who have earned a 90% or higher in Honors English 11 or English 11 (A). Students who schedule this course must successfully complete a response essay to be assessed by the College Reading and Writing instructor prior to admission.*

### **English 12 (A)**

This course is designed for students who plan on entering a four-year college or university program. Emphasis will be placed on developing advanced composition skills through the use of computer word-processing programs and exercises. Special attention will be placed on the revision process and on revision techniques. Students will read, analyze, and respond to a variety of literature readings by engaging in classroom discussions and by writing. A research project, documented paper, and oral presentation will be required.

### **English 12 (B)**

This course is designed for students who are following the ACT (Associate, Career and Technology) track and who will further their education through one or two years of post-secondary education or through the Armed Services. The content will

include language and vocabulary development; sentence, paragraph, and essay writing; literature analysis; oral class presentations; and library research.

### **Honors English 11**

Honors English 11 entails an extensive study of the written and spoken word. Through the written essay, the student will explore the various genres, and emphasis will be placed on the poetic form. With the presentation of a formal speech, the student will gain the ability and confidence to communicate the spoken word.

- *Prerequisite: Entrance into Honors English 11 is based on teacher evaluation and recommendation, the student's performance in English 10, and Keystone Exam results.*

### **English 11 (A)**

This course is designed for students who plan on entering a four-year college or university program. Students will study literature thematically to acquire an understanding and appreciation of their American cultural background, values, and ideals; students will also develop narrative, descriptive, expository, and persuasive writing skills; complete a research techniques project; and participate in oral communication experiences.

### **English 11 (B)**

This course is designed for students who are following the ACT (Associate, Career, and Technology) track and who will further their education through one or two years of post-secondary education or through the Armed Services. Students will study important works of American literature; improve their writing skills by focusing on the writing of completed sentences, by focusing on proper paragraph construction, and by focusing on the basics of essay writing.

### **Honors English 10**

Honors English 10 entails an extensive study of the written and spoken word. Emphasis will be placed upon the detailed study of the novel, the short story, and the drama. Written essays and formal speeches will deal with these genres and with the authors of various works.

- *Prerequisite: Entrance into the Honors English program is based on teacher evaluations and recommendations, the student's performance in English 9, and Keystone Exam results.*

### **English 10 (A)**

This course is designed for students who plan on enrolling in a four-year college or university program. Students will understand and apply the writing process to develop basic writing skills. Also, students will develop analytical reading skills through an introduction to various literary themes and genres and will learn basic research techniques.

### **English 10 (B)**

This course is designed for students who are following the ACT (Associate, Career, and Technology) track and who will further their education through one or two years of post-secondary education or through the Armed Services. This class will be team taught by two teachers. Students will review and constantly apply the basics of written and oral communication skills, will develop critical reading skills through an introduction to literary themes, and will utilize basic research techniques.

### **Enriched English 9**

Enriched English 9 will focus on the improvement of writing, reading, and presentation skills. In the writing component of the course, the focus will be in the areas of prewriting, organizing, and editing papers of various forms with emphasis placed on literary analysis and research. Class readings will be in the areas of the novel, poetry, short fiction and drama. Individual and group presentations will be assigned throughout the year. Students will increase their proficiency in the areas of language and rhetoric. Vocabulary building activities will also be stressed. Students will complete the Keystone Literature exam at the conclusion of this course.

- *Prerequisite: Entrance in to the Enriched English 9 program is based on teacher evaluations, recommendations, and on the student's performance in English 8.*

### **English 9 (A)**

Students will learn the writing process and improve planning, organization, and editing skills as they apply to a variety of writing modes, including basic research tasks. Various literary genres will be read with an emphasis placed on discussion, critical thinking, and written response. Vocabulary and proficient oral communication skills will be stressed in all areas. Students will complete the Keystone Literature exam at the conclusion of this course.

### **English 9 (B)**

The purpose of this course is to help improve the performance of those students who have demonstrated weaknesses in reading and writing skills. These students will receive intensive instruction that focuses on these areas. Students will review and constantly apply the basics of grammar, as well as develop a writing style appropriate for their grade and ability level. Reading comprehension skills will be addressed through various genre readings. Students will complete the Keystone Literature exam at the conclusion of this course.

### **Reading Intensive English 10 - 11 - 12**

This course is designed to help students attain grade level decoding and comprehension reading skills, with an emphasis on skills and abilities that will assist students with real-world and employment tasks. Through a combination of direct instruction and flexible groupings, students have an opportunity to work at their own paces and ability levels to master their areas of need in reading, writing, and speaking.

## GENERAL ELECTIVES

### **Microcomputer Applications/Visual Basic Programming**

This hands-on course is geared towards teaching a working knowledge of the more popular microcomputer software packages available including Windows, word processing, spreadsheets, and presentations. Also, it will cover other aspects of computer use, such as Desktop Publish, Graphic Design, and Computer Programming. This course meets the requirements to give students 3 credits from Pennsylvania Highlands for their CIT 100 Microcomputer Applications course, which is required for all of their students. The college credits will require the payment of a fee and the credits may be transferrable to other colleges. Students in this course will also use Visual Basic to analyze, design, code, test, and debug a computer application using structured programming techniques, with an emphasis on modular programming techniques.

### **Desktop Publishing**

During this full year course, students will enhance their news gathering and computer skills, assume leadership roles as editors, help the first-year students learn journalistic style, learn business management techniques, apply proof-reading skills, will take photographs, learn desktop publishing software, create school related programs, study contemporary publications, and produce excellent school publications.

### **Journalism**

Students in this course will be introduced to the journalist's craft, including researching and writing articles. Students will learn the fundamental elements of news writing, interviewing, and photography. Students will conduct interviews, write in a variety of journalistic formats, discuss editorial positions, and help produce and edit the school's online news site.

- *This elective course is open to students in Grades 11 and 12.*

### **Computers/Keystone Prep**

In this course, ninth grade students will spend one semester developing computer skills necessary for high school success. Students will build upon existing knowledge of computer applications and will be introduced to the appropriate use of school email, Google Docs, cyber bullying, and submission of online course work. During the second semester, students will review and practice eligible content and test-taking strategies for the state-mandated Keystone Algebra1, Biology, and Literature exams.

### **Computer Applications**

The Computer Applications course is a half-credit course that will complement all core course content areas by building a solid background of computing fundamentals and an awareness of how and where information technology is

currently being implemented. Students will upgrade basic skills in word processing, spreadsheets, presentations, and internet research. Technology terminology, hardware and software concepts, internet safety, and an understanding of how information technology is changing our society with an increased emphasis on the ethical and legal use of computers will be covered. If time allows, students may explore applications of desktop publishing.

### **Computer Programming**

The focus of this course is on problem analysis and the development of algorithms and computer programs using the Java Programming Language, Block-Structured Programming Language, and Alice Programming Language. Students in this course will spend several weeks on each type of coding/programming language. This course is an Object Oriented Programming class, which will develop students' skills for other languages as well.

### **SAT Math / SAT Reading**

This course is designed for eleventh grade students who intend to enroll in a two- or four-year college or university program after high school graduation and who plan on taking the SAT exam during their junior and senior years. The curriculum will focus on an intensive study of the vocabulary, concepts, and test-taking skills necessary to succeed on the redesigned SAT exam. Although separate grades will be issued for Math and Reading, these courses must be scheduled together.

- *Prerequisite: These courses are open only to juniors.*

### **Freshman Seminar**

This 9-week, pass/fail course will introduce students to the study skills, attitudes, and time management habits that will benefit students throughout their high school careers.

### **Career Readiness 10 & 11**

The purpose of these courses is to introduce 10<sup>th</sup> and 11<sup>th</sup> grade students to various topics related to career awareness and preparation, career acquisition, and career retention and advancement. These courses will be aligned with the Academic Standards for Career Education and Work. Career Readiness will be delivered to the students through Google Classroom and will be taught online by the school counselors. Students will complete the coursework independently.

- *These courses must be completed by all sophomores and juniors as part of their graduation requirements.*

### **Senior Seminar**

This course will provide senior students with skills necessary to succeed in post-secondary school or in the workforce after graduation. Half of the course will be spent developing the writing and speaking skills necessary for success: interviewing, resumes and applications, and scholarship/college acceptance essays. The other half of the course will focus on financial and consumer information that

students will need to live on their own. Students will be required to complete three hours of community service as part of this course. This course will satisfy the graduation project requirement.

### **Driver's Education**

Driver's Education provides soon-to-be drivers with the background knowledge and laws necessary for safe driving. Topics of study in this course include social pressures associated with driving, laws and signage, emergency situations, and basic driving skills. Additionally, students will prepare for the state drivers' exam.

### **Principles of Supportive Studies**

The goal of this course is to provide an opportunity for students to improve their academic performance. This course offers students the 1:1 assistance to organize their course work schedule; course notes, labs, and projects; take an active role in course work completion; assess classroom performance and discuss academic concerns. Emphasis will be placed on the following skills: Using common organizational structures to complete all course work; locating, analyzing and comprehending appropriate texts in all classes; preparation for Keystone and graduation projects; and maintaining documentation of completed work.

- *Prerequisites: Students must have an IEP, 504, Educational Support Plan or be determined in need of additional intervention(s)/support(s) in their core academic areas.*

## **HEALTH AND PHYSICAL EDUCATION**

### **Health: Grade 9**

This is a course that is based on personal learning experiences which favorably influence the student's attitude toward health related issues. In addition, this course will present sufficient background information in anatomy and physiology so that the student will understand the basic structure of his/ her body and its functions. The student will also receive knowledge of the various kinds of drugs, the risks and protective factors, and how to identify them. The student will be exposed to the beneficial side of drugs, especially in regard to medicine, and to the negative side of drugs when they are abused. The student will study chemical dependency and its effects on the individual, the family and societal problems. The student will also receive instruction in the following topics: organic and functional diseases, disease prevention, aspects of total fitness; which includes physical, mental, emotional, social, and spiritual health, and HIV/AIDS/S.T.I.'s awareness. Students in the 9<sup>th</sup> grade will take this course one day a week.

### **Physical Education: 9**

In this course the emphasis is placed on acquiring physical fitness through a variety of lifetime activities. Basic fundamentals and individual skill acquisition will be stressed. Students will take this course 2 days a week.

### **Physical Education: Grade 10, 11, 12**

In this course the emphasis is placed on acquiring physical fitness through a variety of lifetime activities. Basic fundamentals and individual skill acquisition will be stressed. Students will take this course 3 days a week.

## **FAMILY AND CONSUMER SCIENCE**

### **Nutrition & Foods**

Students learn advanced food preparation skills as they prepare foods from the food groups, including foreign foods and specialty foods. The students also study nutrition, food science, sports nutrition, creative cooking and cake decorating. This course is recommended for students who are interested in a career in the food industry and for students who want to learn more about nutrition, cooking and healthy eating.

- *Students in grades 10, 11, and 12 may take this course.*

### **Relationships and Child Development**

This course offers students information about interpersonal relationships, family psychology, and the skills one needs in order to become a good parent. The content includes communication in relationships, child development, working with young children, pre-parenting, the family life cycle, and coping with stress and conflicts. During the year, students will engage in a variety of activities that involve working with younger children. They teach at the elementary school, a preschool, and operate a play school during March, April and May. This course is recommended for students who are interested in psychology, education, nursing, and medicine; and for students interested in learning more about children.

- *Students in grades 11 and 12 may take this course.*

## **LANGUAGES**

### **Spanish 4/5**

Spanish 4/5 emphasizes intense conversational practice and vocabulary development. The majority of the course is conducted in Spanish. The course includes a variety of literary and cultural works.

- *Prerequisite: A 85% in Spanish 3 recommended*

### **Spanish 3**

Spanish 3 places special emphasis on grammar, reading, and conversation. Also cultural appreciation is stressed.

- *Prerequisite: An 85% in Spanish 2 recommended*

### **Spanish 2**

Spanish 2 stresses a continuation of reading and writing skills, with an increased emphasis on pronunciation, comprehension, and response. The study of grammar is continued, a cultural background and appreciation are acquired through the reading material.

- *Prerequisite: An 85% in Spanish 1 is recommended.*

### **Spanish 1**

Spanish 1 introduces the language with basic conversational situations. There is an emphasis on pronunciation, vocabulary and on the use of basic structural patterns. Beginning reading and writing skills and grammar are introduced. Good memorization skills and logic skill are needed. An Introduction to the cultural aspects of the Spanish-speaking world is presented.

### **Online Foreign Languages**

Opportunities are available for students to study foreign languages other than Spanish through an online course provider. Students enrolled in online courses will be assigned one class period at Cambria Heights to complete their work, but may have homework or outside assignments as well. These courses are administered and graded by an outside provider.

- *Prerequisite: Students must have completed at least two years of Spanish and be in the gifted program or top 10% of their class to be eligible for online courses.*

## **MATHEMATICS**

### **College Calculus**

College Calculus brings together mathematical methods and ideas to examine two very important concepts. These concepts are The Problem of Tangents and The Problem of Area. This course is the culmination of a high school mathematics program, as it calls upon all the skills and information previously acquired in other mathematics courses to assist in the solving of college-level problems. This course emphasizes the study of functions, derivations and their applications, integration, the concept of limits, and continuity.

- *Prerequisite: A student must obtain a 90% or higher in College Algebra, Pre-Calculus, Algebra II (A), and be in 12<sup>th</sup> Grade.*

### **Pre-Calculus**

Pre-Calculus will reflect upper level math skills required at the college level. Topics will include: (1) Equations, Inequalities, and Mathematical Modeling, (2) Functions and Their Graphs, (3) Polynomial Functions, (4) Rational Functions and Conics, (5) Exponential and Logarithmic Functions, (6) Systems of Equations and Inequalities, (7) Matrices and Determinants, (8) Sequences, Series, and Probability, (9) Three sections on Trigonometry, with special attention paid to the Unit Circle and its importance and uses.

- *Prerequisite: Algebra I (A), Algebra II (A), and Geometry (A)*

### **College Algebra**

College Algebra will reflect higher-order math skills required at the college level. Topics will include: (1) Equations, Inequalities, and Mathematical Modeling, (2) Functions and Their Graphs, (3) Polynomial Functions, (4) Rational Functions and Conics, (5) Exponential and Logarithmic Functions, (6) Systems of Equations and Inequalities, and (7) Probability and Statistics with Standard Deviation.

- *Prerequisite: Algebra I (A), Algebra II (A), and Geometry (A)*

### **Algebra 3 / Financial Math**

This course will first cover basic algebraic and geometric concepts necessary for a more solid algebra background needed for a two year college or trade school student. In addition, a portion of the course will give the students a stronger understanding of financial mathematics, such as banking, credit, taxes, budgeting, auto and home ownership, investing and retirement planning. This course will give the students a sound base to become independent and responsible members of society.

### **Geometry (A) and Geometry (B)**

This course introduces material that deals with inductive and deductive proofs on plane figures (triangles, quadrilaterals, and circles), construction, perpendicular lines and planes, polygons, and similar figures coordinate Geometry Loci Geometry of triangles and circles, transformation, areas and volumes. Solid geometry is also incorporated into this course.

### **Algebra 2 (A) and Algebra 2 (B)**

This course reviews in an accelerated manner the concepts learned in Algebra 1. The concepts include the following: open sentences in one variable, a system of linear equations, polynomials, factoring, and relations – functions. This course also introduces radicals, quadratic relations and systems, exponential functions, logarithms, and complex numbers.

### **Algebra 1 (A) and Algebra 1 (B)**

The basic foundations and applications of Algebra are developed and studied. This course introduces students to symbols and sets, variables and open sentences, axioms, equations, problem solving skills, inequalities, polynomials, special products and factoring, fractions, graphs, and real numbers.

## **Math 9**

This course is for students who need additional instruction in foundational mathematic skills before taking Algebra at the high school level. The course will cover the essential prerequisites to Algebra 1, focusing on the following critical areas: (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems and developing understanding of and applying proportional relationships; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; and developing understanding of operations with rational numbers (3) writing, interpreting, and using expressions and equations and working with expressions and linear equations; (4) formulating and reasoning about expressions and equations, and solving linear equations and systems of linear equations; (5) grasping the concept of a function and using functions to describe quantitative relationships; (6) understanding and applying the Pythagorean Theorem.

# **SCIENCE**

## **Academic Biology**

This course will include a discussion of the unique properties of living organisms that set them apart from the non-living organisms, a presentation of molecular and cellular biology, and a presentation of the concepts of reproduction and genetics. Other topics studied include: scientific classification, microbiology, multi-cellular plants, invertebrate animals, and vertebrate animals.

## **Applied Biology-Chemistry 1**

In this course the major emphasis is on Biology. A detailed description of biological principles and an application of these principles to everyday life are concepts studied in this course. Units on basic animal and plant reproduction will be studied. In addition, the students will study various plant and animal classes to obtain an understanding of basic structure, anatomy, and application to human life. Last, a unit that studies environmental application concludes the course.

## **Chemistry 1**

This course is designed for the academic student who has little or no background in chemistry. The course is the study of the relationship between the structure and properties of matter and the changes that matter undergoes. Chemistry I uses a laboratory and problem-solving approach in addition to a lecture approach to the understanding of the important principles being taught. The course emphasizes the following subject areas: metric system, scientific notation, percent error, phases of matter, atomic structure, subatomic structure and size, electromagnetic spectrum, quantum numbers, chemical bonding, periodic table, periodicity of the elements,

chemical formulas, types of chemical reactions, chemical equations, stoichiometry, mole concept, solutions, kinetics, and the gas laws.

- *Prerequisite: A student should have completed Algebra 1(A) or should be taking Algebra 1 (A) simultaneously.*

### **Applied Biology-Chemistry 2**

In this course the major emphasis is on Chemistry and its uses in everyday life. The course begins with an introduction / review of the metric system and the metric system's relevance to the future world of employment and everyday life. Next, a detailed look at various physical and chemical changes will be studied, and the students will apply this knowledge to the workplace and to everyday life. Some of the other units studied are as follows: Uses and Applications of Various Acidic and Basic Chemicals; Basic Elements and Chemicals Utilized in the Workplace and at Home; and Hydrocarbons. CORE materials will also be utilized to enhance the following units of study: Water, Air, Gases, Natural Resources, Synthetic Materials, Waste and Waste Management, and Community of Life.

### **Anatomy and Physiology**

This course will provide students with the opportunity to elect a science course that is related to the health field. It presents a wide range of experiences for those students who are considering careers in the fields of Nursing, Physical Therapy, Occupational Therapy, Respiratory Therapy, Dental Hygiene, Pharmacology, and Health and Physical Education. In addition, this course will benefit students who plan to major in Biology and Pre-Medicine.

- *Prerequisite: This course is available to 11<sup>th</sup> and 12<sup>th</sup> grade students who have passed Biology/Applied-Biology Chemistry 1 and Chemistry 1/Applied Biology-Chemistry 2.*

### **Anatomy and Physiology II**

This course will provide students with the opportunity to elect a science course that is related to the health field. It presents a wide range of experiences for those students who are considering careers in the fields of Nursing, Physical Therapy, Occupational Therapy, Respiratory Therapy, Dental Hygiene, Pharmacology, and Health and Physical Education. In addition, this course will benefit students who plan to major in Biology and Pre-Medicine.

- *Prerequisite: This course is available to 12<sup>th</sup> grade students who have passed Anatomy and Physiology I.*

### **College Chemistry**

This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. It will illustrate through hands-on laboratory experiments, the concepts introduced in General Chemistry. The topics covered in this course will be: Fundamentals of Chemistry, Atomic and Molecular Structure, Stoichiometry, The Periodic Table, Qualitative and Quantitative Analysis, Solution Chemistry (oxidation-reduction reactions), Properties of Gases, Chemical Bonding

and the VSEPR Theory, Acid and Base Theories, Chemical Kinetics, Volumetric Analysis, Thermodynamics, Organic Chemistry, and Nuclear Chemistry. It is intended for students who are interested in careers in the science field including medicine and engineering. It is intended to provide students with extensive problem solving and information equivalent to college level freshman chemistry. Students should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course should contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. The college course in general chemistry differs qualitatively from the usual first secondary school course in chemistry with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by students. Quantitative differences appear in the number of topics treated, the time spent on the course by students, and the nature and the variety of experiments done in the laboratory.

- *Prerequisite: A student must obtain an 87 % or higher in Chemistry 1 and the successful completion of Algebra II (A). The course is open to 11<sup>th</sup> and 12<sup>th</sup> grade students.*

### **College Biology**

This is a college level course which is designed for students who have earned above average grades in Biology and Chemistry and who are considering a career in a Biology related field. The course includes many of the topics which are commonly covered in a Freshmen College Biology Course. The topics covered in the course include: Biochemistry, Cellular Biology, Molecular Biology, Genetics, Evolution, Microbiology, Plant Anatomy/Physiology, and Animal Anatomy/Physiology.

- *Prerequisite: A student must obtain an average of 87% or higher in both Academic Biology and Chemistry and have passed the Keystone Biology exam to enroll in this course.*

### **Honors Physics**

This course involves both a lecture and laboratory component in which students explore the fundamental principles of physics, including mechanics, kinematics, momentum, statics, work, energy, heat, waves, sound, electricity, magnetism, light, atomic and nuclear physics, and radioactivity, and is intended for students who plan to attend a four-year college majoring in a field related to engineering, mathematics, or a similar concentration. An emphasis will be placed on the mathematical theory behind the principles of physics.

- *Prerequisites: Open to students in 11<sup>th</sup> and 12<sup>th</sup> grade who have taken Pre-Calculus or College Calculus or will be taking Pre-Calculus concurrently*

### **Physics**

This is a lecture/laboratory course which stresses the fundamental principles of mechanics, kinematics, momentum, statics, work, energy, heat, waves, sound, electricity, magnetism, light, atomic and nuclear physics, and radioactivity.

- *Prerequisites: Open to students in 11<sup>th</sup> and 12<sup>th</sup> grade who have taken College Algebra or will be taking College Algebra simultaneously with Physics*

### **Applied Physics 1**

Students in Applied Physics will be introduced to the principles of motion, Newton's Laws of Motion, friction, density, and simple machines. Additionally, students will study electrical, potential, and kinetic energies. Students will complete hands-on labs throughout the course, and the principles of physics will be examined using problem-solving skills, mathematics, and discovery learning.

### **Environmental Science**

This course is a student activity-centered laboratory program with a non-mathematical approach toward the study of environmental studies. Students will apply learned principles to real world situations and form analogies between the various environmental systems. This course is designed for all Cambria Heights students to fulfill Pennsylvania State Environmental 12 Grade Benchmark Environmental and Ecology Standards.

<b>SOCIAL STUDIES</b>
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### **Street Law**

Street Law is designed to provide practical information and problem solving opportunities that will develop in students the knowledge and skills necessary for survival in our law-saturated society. Topics to be covered are law and the legal system, criminal and civil law, family law, housing law and individual rights and liberties. The curriculum includes case studies, mock trials, role-playing group activities and discussions. Community resource people, such as lawyers and police officers will speak. Community experiences, such as court tours, prison visits and local government meetings will be utilized. The course will promote in the student, willingness and the capability to participate in the legal and political system.

- *Prerequisite: This course is open only to seniors.*

### **U.S. Cultures 2**

This course studies and analyzes social, cultural, political, and military developments in the history of the United States from the end of World War 1 through the present. Important themes include the 1920's, Great Depression, World War II, the Cold War, Korea, and Vietnam, the Civil Rights Movement, and twenty-first century challenges in the post-Cold War era.

### **U.S. Cultures 1**

This course studies and analyzes social, cultural, economic, political, and military developments in the history of the United States from the pre-Civil War era through the decade of the Twenties. Important themes include the causes of the Civil War, a thorough examination of the Civil War, post-Civil War industrialization, the Spanish-American War and imperialism, the Progressive Era, and World War I.

### **Western Civilization and Government**

This course examines and analyzes social, cultural, technological, political, economic and intellectual advancements in World History throughout all of the major eras. The curriculum also includes the rise of a republican form of government and creation of the United States of America. Important themes include Prehistoric Time, Ancient Civilizations, the Middle Ages and the Modern Era. The impact of democratic principles proposed by the European Enlightenment philosophers on the development of the United States Constitution will be explored. The course will also explain topics in American government that will include, but not be limited to: Federalism and the Constitution, Separation of Powers, Federal, State & Local Governments, Civil Liberties, Rights and Responsibilities.

### **Psychology**

Psychology is the study of the human mind and its behaviors. This course will provide a basic foundation and understanding of the main theories, principles and concepts of psychology. Students will have a greater awareness and appreciation for the human mind and its ability to grow and function. There will be an emphasis on topics such as development of personality, thinking and creativity, brain consciousness, child and adolescent development, and troubles personality theories.

- *Prerequisite: This course is only open to juniors & seniors.*

### **College Psychology**

This course will provide students with a basic foundation and understanding of the main theories, principles, and concepts of psychology at a structure and pace similar to that of an introductory psychology course at a college or university. Students enrolled in this course may purchase credits through Mount Aloysius College for completion of this course.

- *Prerequisite: This course is only open to juniors and seniors, with preference given to seniors.*

## **TECHNICAL ARTS**

### **Technical Drafting 1**

This course will offer students who are unfamiliar with technical drawing an opportunity to explore this field of study. Students will study the fundamentals of measuring, safety, and accuracy and will have a solid foundation upon which to build should they take technical drafting courses in the future.

- *This course is not a prerequisite for Technical Drafting 2.*

### **Technical Drafting 2**

This class will concentrate on Measuring, Safety, and Accuracy in pencil/paper drawings. Students will measure and draw basic three view drawings, isometric drawings, oblique drawings and perspectives. The course covers free Hand Sketching, Design, Mechanical drafting, and pictorial drawings.

- *This course is split between Technical Drafting 2 and Art 10.*

### **CAD I**

This course helps to develop skills in visualizing objects in orthographic projections that can be converted into three-dimensional objects. The knowledge of several methods of drawing is acquired, and a student develops skills inline techniques of drawing. The course covers freehand sketching, mechanical drafting, pictorial drafting, architectural drafting, and computer-aided-drafting and design.

- *Prerequisite: Students who are in grades 11 and 12 or who are in grade 10 on the vocational track may take this course.*

### **CAD II**

CAD II will expand the student's critical thinking skills. The course relies heavily on the computer as a tool to solve difficult drawing problems in a shorter time. The student will create 3D models to show natural revolutions of an object. A practical Architectural project will be made to scale from paper or wood. We will also explore Section and Auxiliary views, Structural Drawings, and Threads/Fasteners.

- *Prerequisite: CAD I.*

### **Exploratory Technology Education**

This 9-week course is designed to introduce students to the basic principles of shop safety, machine operations, and project design. Students interested in these topics can then pursue additional opportunities in Technology Education throughout their high school careers.

### **Technology Education I**

The course will include Basic Drawing, Measuring Instruments, Metalworking, and Machine Operations (woodworking). Each area will be divided into 6 to 9 week cycles. Basic Drawing will include basic drawing techniques, design, and printmaking; measuring instruments will include various measurement techniques, and dimensioning. Metalworking will include various metals and their composition, patterns, and laying out metal. Machine Operations will include safety, cutting, forming, fastening, and finishing wood.

- *Prerequisite: This course is open to 9<sup>th</sup> and 10<sup>h</sup> grade students.*

### **Technology Education II**

This course will include Mechanical Drawing, Metalworking/Welding, and Sequence of Work or Mass Production. Each area will be divided into 9-week cycles. Mechanical Drawing will include techniques and applications of drawing, drafting equipment, and various types of drawings. Metalworking will basic metal process and some machine operations and Welding will include different welding process both gas and arc welding. Include basic programming, use, and operation of CNC

machines both wood and metal. Welding will include different welding process both gas and arc welding. Planning Sequence of Work will include modern manufacturing and mass production, planning procedure, design, craftsmanship, and estimating materials.

- *Prerequisite: Students who are in 10<sup>th</sup> and 11<sup>th</sup> grade may take this course.*

### **Technology Education III**

This course will include Metalworking and/or Woodworking. Each area will be divided into 18-week cycles. Metalworking will include basic metal process and some machine operations all to produce a project. Woodworking will include basic wood machine process; power tools, and hand tools used and operations to produce a project.

- *Prerequisite: This course is open to 11<sup>th</sup> and 12<sup>th</sup> grade students that have a passing grade an 87% in Technology Education II.*

### **Technology Education IV**

This course will include Advanced Metalworking and/or Advanced Metalworking/Welding to produce a senior project. This will be a 36-week senior project. Advanced Woodworking will include all machines, process, and equipment available to them. Advanced Metalworking will include all machines, process, and equipment available to them. Welding will include as, arc, and resistance welding. One or all should be used on the project.

- *Prerequisite: This course is open only to seniors.*

## **MUSIC**

### **Chorale**

This group is open to all students grade 9 through 12. Several goals of the chorale include having all students learn and perform a well-balanced and varied selection of concert choir music, give students in grades 10 through 12 an opportunity to audition for concert choir music, give students in grades 10 through 12 and opportunity to audition for PMEA district, regional, and state festivals, and to create memories that are special and unique. Students will be expected to try their best regardless of their level of talent, be responsible for their music folder, and sing all selected music.

- *Requirements: Students will be required to be in attendance at all performances (approximately 2 per year).*

### **Concert Band**

This ensemble is open to all students grade 9 through 12 who have an interest in playing their individual instrument. Several goals of the concert band include having all students learn and perform a well-balanced and varied selection of wind band literature, expand their expertise of their own instrument, give all students in grades 10 through 12 the opportunity to audition for PMEA music festivals, create

an inviting musical atmosphere for all students no matter his or her ability level, and create life long musical memories for all students.

- *Requirements: Students will be required to be in attendance at all performances (approximately 2 per year).*

### **Contemporary Music Ensemble**

This ensemble is open to all junior and senior students who have an interest in contemporary music. This course is designed to facilitate music learning through more contemporary idioms such as rock, jazz, metal, and punk band music. Students in this class will be responsible for running their own rehearsals, selecting their music, and learning their own particular parts. The instructor will be seen as more of a sponsor, advisor, or manager than a director. Students in this class will be members of the school sponsored rock and cover band that will be named later by the members of the group.

- *Requirements: Students will be required to perform at certain school functions, such as dances, concerts, etc. Students must be proficient in one or more of the following instruments: Acoustic guitar, electric guitar, bass guitar, keyboards, drum set, or vocals.*

### **Music Theory**

In this course, the student will be provided with information on basic music theory, music appreciation, music history, and an introduction into musical theatre. The class is taught through the use of both lecture and self-guided computer programs.

- *Requirements: This advanced course is open only to upper-classmen who have a background in music.*

### **Audio Media Technology**

This course is designed for students who have an interest in and appreciation for music. Students will begin by studying the basic mathematical and physical principles that define the behavior of sound. From there, students will learn how different pieces of audio hardware and software can manipulate sound and what technologies are applicable to certain situations. Once this basic understanding is established, students will be given a series of projects that will culminate in real hands on experience doing live sound reinforcement, studio recording, live recording, mixing, editing, and mastering.

- *This course is open to students in grades 9 – 12.*

### **Vocal Extension**

Vocal Extension is a class designed to teach varying genres of music through performance. Students will engage in singing music that is considered quality by other professionals in the music field, learn musical concepts through the pieces selected for the performances, and experience the joy of performing in front of an audience. Music genres to be studied include, but are not limited to vocal jazz, show tunes, pop, rock, and standards.

- *Participation in this class is through audition only.*

## KEYSTONE REMEDIATION AND PROJECT-BASED ASSESSMENTS

### **Keystone Remediation**

Keystone Remediation courses are designed for students who have not successfully demonstrated proficiency on the Keystone Algebra I, Biology, or Literature Exam on the first attempt. Teachers of these courses analyze students' prior testing data to specifically address each student's areas of need to increase the likelihood that the students will demonstrate proficiency during the next test administration. Keystone Biology and Algebra I remediation will meet three times each six day rotation for one semester. Keystone Literature remediation will meet two times each six day rotation.

- *Students in these courses will be given elective credits on a pass/fail basis.*

### **Project-Based Assessments**

Project-Based Assessments provide an alternate pathway to graduation for students who have taken the Keystone Exam in Algebra I, Biology, or Literature two or more times and have not demonstrated proficiency. Project-based assessments must be completed in school and proctored by a certified test administrator. When working on a project-based assessment, a student is still eligible to retake a Keystone Exam. Once the student demonstrates proficiency on the Keystone Exam or project-based assessment, he or she will be withdrawn from the course for the remainder of the school year.

- *Project-Based Assessments will not be administered during the 2019-2020 school year.*