

# Claysburg-Kimmel High School Scheduling Packet



2022-2023

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# **GRADUATION REQUIREMENTS**

## **CREDITS AND CORE CURRICULUM REQUIREMENTS**

All students in grades 9-12 must complete a core program of courses that have been organized to educate students to become lifelong learners and productive citizens. Sequences of courses provide for proficiency and understanding in the major disciplines. **A minimum of 26 credits is required for graduation. The completion of the core curriculum (outlined below) plus additional elective credits meets these guidelines. Any student dropping a course after the first week of the semester may receive a failing grade for the course.** The core curriculum provides students the opportunity to develop proficiency in a broad range of curriculum content areas. The scope and sequence of courses provides a solid academic foundation upon which to develop individual talents and interests. All students are expected to complete the required number of credits in each area.

English (4 Courses)	4 credits
Social Studies (4 courses)	4 credits
Mathematics (4 courses)	4 credits
Science (4 courses)	4 credits
Physical Education (4 courses)	.5 credits
Health (1 course)	.5 credits
Driver Education (1 course)	.5 credits
Computer Applications (1 course)	credits vary

In accordance with CKSD Board Policy 217, “the fourth year of high school shall not be required for graduation if a student has completed all requirements for graduation and attends a postsecondary institution as a full-time student.” Additionally, “A student may qualify for graduation by attending a district school part-time when officially enrolled part-time in a postsecondary institution.”

## **GRADUATION PROJECT**

All students in 7-12<sup>th</sup> grade participate in career related activities. Students maintain a portfolio of career research completed at each grade level. During the graduation project program, students use portfolios to showcase and outline their career research achievements. Working with their English teacher, students in 9<sup>th</sup> and 12<sup>th</sup> grade will write a 2-page research paper. Students in 10<sup>th</sup> grade complete multiple career related worksheets, and attend a school sponsored career fair. Students in 11<sup>th</sup> grade take an aptitude test and complete a career interest inventory. Information on each grade level component is provided to students throughout the graduation project portfolio. Additional packets are available in the guidance office. **Seniors who do not meet deadlines will be considered ineligible for graduation and, therefore, MAY NOT be able to participate in graduation ceremonies.**

## **KEYSTONES EXAMS**

The Keystone exams are administered upon completion of Algebra I (full year course) or Algebra IB (second in A-B sequence), Biology, and English 10. As stated in School Board Policy 217: “Keystone exams are administered, and their results utilized, as directed by the Pennsylvania Department of Education.”

## **PROMOTION STANDARDS**

A final grade of no less than a 70% will earn credit in a course.

- A student must earn a minimum of 5.25 credits during Grade 9 to be promoted to 10<sup>th</sup> grade status.
- A student must earn a minimum of 12 credits during Grades 9 & 10 to be promoted to 11<sup>th</sup> grade status.
- A student must earn a minimum of 18 credits during Grades 9, 10 & 11 to be promoted to 12<sup>th</sup> grade status.

It is suggested that students who fail a required course during their freshman, sophomore, or junior year successfully make up the course prior to the beginning of their senior year. Students can complete the course in summer school or, in certain cases, schedule and complete the course during the remaining years prior to graduation. Summer School information is normally available in May.

## **SCHEDULING PROCESS**

- Students will receive an unofficial copy of high school transcripts and this scheduling packet
- Complete the Course Selection Sheet in the back of the scheduling packet.
- **Note: The school may choose classes for students who submit late or incomplete course requests, those without parent signatures, and in the event that a course or courses is (are) full.**

## **SCHEDULE CHANGE PROCEDURE**

Courses are scheduled each year based upon the course requests of students. Every effort is made to match student needs and interests in the offering of courses and programs. Once classes are scheduled, it is impossible to restructure the school's master schedule to accommodate unnecessary modifications to a student's schedule. General schedule changes are offered two times per school year - during the first week of school and during the first week of the 2<sup>nd</sup> semester for 2<sup>nd</sup> semester classes only. Schedule changes are restricted by the following guidelines:

- Computer scheduling errors take first priority.
- Requests for individual teachers will not be honored.
- At the beginning of the school year, schedule change requests that require a detailed rearrangement of a student's schedule may not be possible to accommodate. Changes requested after the 1st semester absolutely cannot involve re-arrangement of a schedule because of mid-year grades already in the Infinite Campus information management system.

**PLEASE CONSIDER CAREFULLY THE CLASSES YOU ARE SCHEDULING. DO NOT TENTATIVELY SCHEDULE CERTAIN CLASSES WITH THE THOUGHT THAT YOU CAN ALWAYS CHANGE IT LATER.**

## **DESIGNING YOUR SCHEDULE**

Use the checklist below to assist you in designing your schedule:

\_\_\_\_\_ Review your transcript to determine classes you need to select.

\_\_\_\_\_ Are you taking advantage of the opportunities the curriculum offers in terms of self-interests and abilities such as Career and Technology Center Courses, College Prep, Dual Enrollment and weighted/Honors Courses?

\_\_\_\_\_ Review the promotion standards and select enough credits to ensure promotion to the next grade. Your schedule should include a minimum of 6.5 credits each year, but no more than 8. Remember, it is unlikely you will have a study hall. Schedules with less than 6.5 credits normally have additional student experiences such as internships, etc.

\_\_\_\_\_ If you are entering 12<sup>th</sup> grade, review the graduation requirements to be sure you schedule enough credits to graduate and have met all other scheduling graduation requirements (i.e., Keystone Exam requirements and core curriculum requirements).

\_\_\_\_\_ Decide whether you wish to schedule college courses.

\_\_\_\_\_ If you are entering 9<sup>th</sup> grade, remember to select the Driver Education classroom phase. The Driver Education classroom phase is required of all students and is normally scheduled in Grade 9. If you are interested in the Driver Education driving phase (behind-the-wheel), Altoona Area School District and Hollidaysburg Area School District both offer behind-the-wheel during their summer school program. Please see Ms. Hinkledire in April and May for a summer school packet for those districts.

\_\_\_\_\_ High school work study and cooperative education programs are available to eligible students; GACTC students may be eligible through the Career and Technology Center. Arrangements must be made through the GACTC.

\_\_\_\_\_ Complete the Course Selection Sheet (Working Copy) for the grade level you are entering, review it with a parent/guardian, obtain parent/guardian signature, and submit it to Guidance by the announced deadline.

**See Ms. Hinkledire if you have any questions!**

## **NCAA ELIGIBILITY**

**NCAA CLEARINGHOUSE:** It is the responsibility of the student athlete who plans on participating in NCAA Division I or Division II Athletics to secure and complete the NCAA Clearinghouse through the athletic or guidance office. It is also the responsibility of the student athlete to ensure he/she completes the appropriate courses to be eligible in the NCAA Division I or NCAA Division II.

# COLLEGE COURSES

## Dual Enrollment Courses

Dual enrollment courses are college courses taught at CK by our faculty. Students can earn both college credit and high school credit by enrolling in these courses. The college credit courses are a way for juniors and seniors to earn college credits at a reduced cost to the student. The following is a list of the current dual enrollment courses and the participating colleges.

HS Course Name	College Course	Teacher	College	Credits
Calculus (HON)	Math 110	Mr. Caracciolo	Saint Francis University	3
Anatomy & Physiology (HON)	Biology 105	Mr. Hartman	Saint Francis University	3
American History(HON)	History 103	Mr. Harris	Saint Francis University	3
American History(HON)	History 104	Mr. Harris	Saint Francis University	3
English 11 (HON) (Fall Sem.)	English 110	Mrs. Harris	Pennsylvania Highlands Community College	3
English 11 (HON) (Sp. Sem.)	Comm 101	Mrs. Harris	Pennsylvania Highlands Community College	3
English 12 (HON)	English 200	Mrs. Marko	Pennsylvania Highlands Community College	3
American History(HON)	HS 201	Mr. Harris	Mount Aloysius College	3
Anatomy & Physiology (HON)	BL 201	Mr. Hartman	Mount Aloysius College	4
Calculus (HON)	CM 117	Mr. Caracciolo	Mount Aloysius College	4
Psychology (HON)	PY 101	Ms. Kimmel	Mount Aloysius College	3

## Early to College Courses

Early to college courses are courses taught at a college by college faculty. Please refer to the student handbook on the policies and procedures regarding early to college classes. The following are some of the programs offered through local colleges and universities.

Institution	Application Process
Penn State Altoona PACE Program	Counselor Letter Transcript SAT/ACT Scores
Allegany College of Maryland Early to College Program	ACM Application Counselor Letter Transcript
Saint Francis University	Continuing Ed Program Counselor Letter Transcript
Mount Aloysius College	Counselor Letter Transcript

# **ELECTIVES OFFERED**

## **2022-2023 Elective Offering**

Accounting	Holocaust
Anatomy and Physiology (Honors)	Intro to Business
Art Elective	Jazz Band
Band	Local History
Band (Hon)	MakerSpace
Bio/Chemistry	Manufacturing
Business Law	Microsoft Office
Business Leadership	Multimedia
CAD and 3-D Printing	Music Appreciation
CAD II	Music Theory
Chemistry II	Practical Math
Chorus	Psychology (Honors)
Coding	SAT Prep (Math)
Computer Applications	SAT Prep (Verbal)
Consumer Math	Spanish I
Current Events	Spanish II
Desktop Publishing	Spanish III
Drafting- Technical/Mechanical	Spanish IV
Ecology	Statistics
Entrepreneurship	STEM Trends
Forensics	Terrorism & the U.S.
Genetics	Yearbook

**All electives are subject to sufficient number of enrollments and may not run if enrollment is low**

## **ONLINE/CYBER ELECTIVES**

The Claysburg-Kimmel School District, through a partnership with Appalachia Intermediate Unit 8 and their Open Campus Initiative, offers and supports a variety of online/cyber elective course opportunities. Students can select from a variety of courses including Advanced Placement (AP), World Languages, Engineering, Computer Science & Technology, and the Arts. Online/Cyber Vendors vary, and the student/parent should schedule an individual meeting with the cyber director and school principal to discuss if this option is right for the student. CKSD also has a contract with online provider Edgenuity for additional course offerings.

# **Greater Altoona Career and Technology Center**

## **Program Offerings**

Automotive/Diesel Technology  
Automotive Technology  
Baking and Pastry Arts  
Cabinetmaking/Finished Carpentry  
Carpentry/Construction  
Collision Repair & Refinishing Technology  
Computer Programming  
Computer & Networking Technology  
Cosmetology  
Culinary Arts  
Dental Assistant  
Digital Communications  
Digital Printing Technologies  
Electrical Trades  
Electro Mechanical Engineering Technology  
Emergency Services  
Engineering Design Technology  
Graphic Design  
Health Occupations  
Heating, Ventilating, Air Conditioning/Refrigeration  
Interior Decorating & Finishing  
Logistics & Supply Chain Management  
Masonry  
Outdoor Power Equipment Technology  
Precision Machining  
Retail Marketing/Entrepreneurship  
Service Occupations  
Welding Technology

**For more information, go to [www.gactc.edu](http://www.gactc.edu)**

ENGLISH / LANGUAGES						
YEAR	7th	8th	9th	10th	11th	12th
<b>Core Courses</b>	English 7 Reading 7	English 8 Reading 8	English 9	English 10	English 11 or English 11/Speech & Comp (HON)	English 12 or English 12 (HON)
<b>Electives</b>		PSSA Reading Study Skills	Spanish I	Spanish II	Spanish III SAT PREP-Verbal	Spanish IV
<b>Dual Enrollment</b>					ENG 110 COMM 101	ENG 200
<p>The following criteria are utilized and reviewed when determining a students' eligibility to enroll in an honors course:</p> <ul style="list-style-type: none"> <li>• 85% or above GPA</li> <li>• Score Proficient or Advanced on PSSA or Keystone Exams</li> <li>• Teacher Recommendation</li> <li>• Administrative Approval</li> </ul>						

### **ENGLISH 9**

Year/1 credit

9<sup>th</sup> grade

Students will build a close-reading routine in which they read a text thoughtfully, apply strategies as they read, and critically examine the text. Students will analyze text, cite evidence, and respond critically about their learning. Students will build literacy through reading a wide variety of selections of different genres. For each selection, students make meaning through first-read and close-read routines and by analyzing author's craft and structure. As students read, they will engage in activities that inspire thoughtful discussion and debate with peers, allowing them to formulate and defend their positions. Students also complete language development activities with concept vocabulary and conventions practice tasks. Effective expression activities provide students with opportunities to share their learning through written and oral projects.

The English 9 curriculum promotes student-centered learning through a unit organization that do the following: Gives students increasing responsibility for the learning process as they understand expectations, set goals, use self-assessment measures, and monitor and reflect on their learning. Supports active learning in which students annotate texts, answer questions, pose questions of their own, and construct knowledge as they search for meaning. Promotes social collaboration and interaction among learners in ways that strengthen positive interdependence and individual accountability. Engages students in making choices in their learning and work they are producing.

### **ENGLISH 10**

Year/1 credit

10<sup>th</sup> grade

**KEYSTONE TESTED COURSE:** The tenth grade English Language Arts curriculum is aligned to the Pennsylvania Keystone Anchors. Throughout the course of the year, students will investigate the elements of major literary forms. Learning focuses on genre, with increased attention to understanding elements that enhance appreciation of short stories, poetry, nonfiction, drama, and the novel. Each topic is introduced with its corresponding Keystone Anchor. The goal is that students will advance their skills in reading and writing about classic works of literature including selected short stories, poems, nonfiction, plays including *The Tragedy of Julius Caesar* by William Shakespeare and the novel *To Kill a Mockingbird*. Students are expected to participate in class discussions, prepare for assessments, and learn to respond to constructed response questions.

### **ENGLISH 11**

Year/1 credit

11<sup>th</sup> grade

Students will strengthen reading comprehension and writing skills, as well as gain proficiency in public speaking. Upon completion of this course, the student will be able to improve communication skills in speaking, writing, reading, and listening; develop vocabulary; and develop critical thinking skills. The first semester of this course will also contain Keystone Remediation

### **ENGLISH 11 / SP & COMP (HONORS)**

Year/1 credit

11<sup>th</sup> grade

ENG 110 – **English Composition I** is a dual enrollment course offered through Penn Highlands. English Composition I emphasizes the techniques of writing expository essays with stress upon careful thinking, word choice, sentence structure, and methods of organization. Students practice the writing of clear, coherent, and unified paragraphs and essays. Editing skills and the use of correct grammar and mechanics are also emphasized. Students are taught research skills and are required to write an argumentative research paper. This is the standard college English composition course. Pre-requisite: Placement testing through Penn Highlands. It is recommended that students have scored proficient or advanced on the Literature Keystone Exam.

COM 101 – **Public Speaking** is a dual enrollment course offered through Penn Highlands. Public Speaking is designed to help the student build confidence in the theory and practice of public speaking, with the emphasis on the speaker-audience relationship. Skills include analyzing ideas, utilizing evidence, using voice and body to deliver public speeches effectively to a live audience, and developing the ability to listen actively and critically. Pre-requisite: ENG 110 – English Composition I.

**Dual  
Enrollment**

**ENGLISH 12**

Year/1 credit

12<sup>th</sup> grade

English Language Arts for twelfth grade is a developmental approach to literature. The text is divided into sections, and each section begins with high-interest selections. As students' progress through the text, they encounter longer works, classics, and ultimately a full-length novel. Students must be able to respond to literature verbally through classroom discussions and by writing constructed responses. There is a great deal of emphasis on the graduation project which will include a typed paper using MLA format and documentation and the preparation and presentation of a 5-10-minute speech. The graduation project paper and speech will be graded and is essential in order to graduate from Claysburg-Kimmel High School.

**ENGLISH 12 (HONORS)**

Year/1 credit

12<sup>th</sup> grade

This course begins with the roots of the English language and of English literature, including the epic *Beowulf* and the works of Chaucer and other Middle English authors. Shakespeare and other authors of the Early Modern era are studied, in addition to significant authors through the 20<sup>th</sup> century. The student will learn to enjoy and appreciate the literary and cultural heritage of the English language in its historical and philosophical contexts. This course emphasizes the study of literary terms and techniques frequently used in literature. This course introduces the students to major themes found in short stories, poetry, and drama. Students are required to read various genres of literature respond to their readings in well-developed essays and participate in class discussions. Information-gathering skills are also stressed. This is a standard college-level introductory literature course. It is more demanding and requires more work than a college preparatory high school course. There is a great deal of emphasis on the graduation project which will include a typed paper using MLA format and documentation and the preparation and presentation of a 5-10-minute speech. The graduation project paper and speech will be graded and is essential in order to graduate from Claysburg-Kimmel High School. Separately, the student will be required to write an analytical literary research paper of 1,000 words or more with correct and complete documentation in MLA format. In addition to the final literary research paper, the student must prepare a preliminary outline and bibliography for the research paper.

**SAT PREP – VERBAL**

Semester/ .5 credits

11<sup>th</sup> grade

This class focuses on preparing students to take the SAT test. Grammar review, test-taking strategies, vocabulary studies, and practice work comprise the majority of the course work. Students will have access to Study Island and SAT resource work to prepare for the test.

**SPANISH I**

Year/1 credit

9<sup>th</sup> grade

This course is an introduction to the Spanish language. It begins on a very simple level and ends with students being able to communicate using simple sentences in the present tense. Students also play games in Spanish and can converse simply. The vocabulary covers such topics as how to introduce people, family and friends, leisure-time activities, vacations, and clothing.

**SPANISH II**

Year/1 credit

10<sup>th</sup> grade

This class builds on the foundation created by Spanish I. Students should learn a greater amount of useful vocabulary, as well as reviewing vocabulary from Spanish One. They will be able to write more extensively in paragraph form as well as talk about themselves in the past tense. Vocabulary units include food, the city, celebrations, the past tense, health, and household items. The prerequisite is to have passed Spanish One with a C average. **Prerequisite: Pass Spanish I with a C average.**

**SPANISH III**

Year/1 credit

11<sup>th</sup> grade

Spanish Three picks up where Spanish Two left off. Spanish is spoken in the classroom. Students are expected to be able to speak Spanish 80-90% of the time in the classroom. We study more grammar and vocabulary. Thematic units are about giving advice, traveling, the subjunctive mood, healthy recommendations, and nature. **Prerequisite: Pass Spanish II with a B average or teacher permission.**

**SPANISH IV**

Year/1 credit

12<sup>th</sup> grade

Spanish IV is a continuation of Spanish Three with an emphasis on reading, writing, speaking and listening. Students read novels, create dialogues, learn phonetics which helps with pronunciation, and practice listening skills. **Prerequisite: Pass Spanish III with an A or a B average or teacher permission.**

<b>HISTORY / SOCIAL STUDIES</b>						
<b>YEAR</b>	<b>7th</b>	<b>8th</b>	<b>9th</b>	<b>10th</b>	<b>11th</b>	<b>12th</b>
<b>Core Courses</b>	World History	American History	PA History/ Civics	World Cultures	American History Am. History (HON)	POD/Economics
<b>Electives</b>				Psychology (Hon)	Psychology (Hon) Holocaust/Terrorism	Psychology (Hon) Holocaust/Terrorism
<b>Dual Enrollment</b>				PY 101	HIST 103&104 HIST 201	

### **AMERICAN HISTORY**

Year/1 credit

11th Grade

Students will study both the political and social history of the United States from the mid 1800's to present day. Main units of study include: Creating a Nation, A New Nation, Reform Movements of the 1800's, The Civil War, Reconstruction, Inventors and Industry, WWI, The Great Depression, The New Deal Era, WWII, The Civil Rights Era, The Reagan Years, Clinton's Presidency and the U.S. post 9/11. During the course, students will also be required to complete various projects and participate in class discussions. Current events will also be included throughout the school year.

### **AMERICAN HISTORY (HONORS)**

Year/1 credit

11th Grade

This class will begin by covering the major political, social, diplomatic, economic, and cultural developments from the age of discovery to 1877. Main units of study include, the founding of the colonies, relationships with the natives, the implementation of African slavery, the Revolutionary War, and the drafting and ratification of the Constitution. The second half of the year will be dedicated to studying political, social, diplomatic, economic, and cultural developments from the Reconstruction era to the recent past. Racial, ethnic and women's issues are also addressed. Main units of study include: reform movements of the 1800's, The Civil War, Reconstruction, inventors and industry, WWI, The Great Depression, The New Deal era, WWII, The civil rights era, the Reagan years, Clinton's presidency and the U.S. post 9/11.

### **CIVICS/GOVERNMENT**

9<sup>th</sup> Grade

Students will examine the roles citizens play in the political, governmental, and economic systems in the United States. They will examine the constitutions of Pennsylvania and the United States; identify the rights, duties, and responsibilities of citizens; and describe the structure and operation of government at the local, state, and national levels. This course will also cover political parties, voting and voting behavior, the electoral process, the media and public opinion, interest groups, the three branches of government, civil rights and responsibilities and current events. They will identify personal character traits, such as patriotism, respect for the law, and a sense of civic duty, that facilitate thoughtful and effective participation in the civic life of an increasingly diverse democratic society. This course is designed to help students become better informed and responsible citizens.

### **CURRENT EVENTS**

Marking Period/.25 credit

11th - 12th grade

Current events is a nine week course that is designed to guide and encourage students to follow the news as it breaks or unfolds on a regular basis. Students will be required to watch, discuss, and analyze recent events. Students will also learn background information for events as well as improve their critical thinking and debate skills. Throughout the course, students will be required to participate regularly and take part in independent learning.

### **HOLOCAUST**

Marking Period/.25 credits

11th - 12th grade

The Holocaust is a nine-week course that will introduce students to the 12-year period known as the Holocaust. This course will identify and analyze the motives and methods of the Nazi party's systematic murder of approximately 6 million Jews as well as millions of others from various ethnic groups throughout Europe during this time period. During the course, students will be identifying the dangers of racism and discrimination on a population and why tolerance is necessary in today's society.

### **LOCAL HISTORY**

Marking Period/.25 credit

11th - 12th grade

Local history is a course that will help students explore the development of Central Pennsylvania. Students will be introduced to the history and significance of areas throughout our region. An emphasis will be placed on the history of Blair and Bedford Counties as well as the Claysburg area. Students will be required to participate in class discussions and complete a variety of research projects. Intelligence, Motivation/Emotion -Personality and Social Psychology, as well as but not limited to-Abnormal Psychology.

**PA HISTORY / CIVICS**

Year/1 credit

9th Grade

This course offers a course of study in Pennsylvania geography, geology, history, economics, citizenship, and government, correlating events in Pennsylvania to events occurring in the nation and the world during the same time periods. The Civics middle school course will thoroughly cover various areas of civics. We will begin with chapters of general introduction to citizenship and the roots of the American system and then move to the discussions about the Constitution, its amendments and their impact on our nation. Next, we'll examine the three branches of government and subsequently focus on state and local governments, politics, law and justice, our economy, and how the U.S. factors into the bigger global society.

**PENNSYLVANIA HISTORY**9<sup>th</sup> Grade

Pennsylvania History is a survey of Pennsylvania from early man to present day. Students will explore PA through the text book, *The PA Journey*, videos, research, interviews, projects, and teacher lecture. Assessments will be varied. Tests to apply information learned, group projects, individual projects, and class work will be used to determine grades.

**P.O.D./ECONOMICS**

Year/1 credit

12th Grade

POD/Economics is a yearlong course offered to seniors. During the POD course, students will gain a better understanding of the American political system by exploring the origins, development, structure, and functions of our national government. Topics will include the Constitution, civic responsibility, federalism, and the three branches of government. The Economics portion of the course will provide students with an overview of fundamental economic concepts. The course concepts will range from the viewpoint of the individual consumer or small business owner to the global economy. Students will study the market system, free enterprise, the law of supply and demand, prices, inflation, and our government's role and influence on the economy.

**PSYCHOLOGY (HONORS)**

Year/1 credit

10<sup>th</sup> – 12<sup>th</sup> grade

When students begin to study psychology, they also begin to think critically about their own and others' mental processes and behavior. The study of psychology gives them new insight into human behavior, emotion, and motivation. Introduction to Psychology covers the broad scope of the field both as a discipline and as it relates to daily life. Because psychology is a discipline marked by open questions and varying schools of thought, the field is constantly changing. For this reason, experts agree that the best way to introduce psychology to students is by using a critical thinking approach. Dual Enrollment Psychology does just that. By presenting the facts of psychology along with the notion that those facts are sometimes debatable, the text shows students how and why to interpret the information that they are learning. A few topics the course will cover throughout the course include the following: What is Psychology? –Nervous System -Sensation/Perception –Consciousness -Learning/Memory Thought/Language -Intelligence, Motivation/Emotion -Personality and Social Psychology, as well as but not limited to-Abnormal Psychology.

**TERRORISM & THE US**

Marking Period/.25 credits

11th - 12th grade

This is a nine-week course that will focus on the effects of terrorism on the United States and world today. The primary focus of the course will be on the causes behind terrorism and how our country has been impacted by these acts. Special emphasis will be placed on 9/11 and how our country has responded to the events of that day. Other topics that will be covered in the course will include the Israeli – Palestinian conflict, The Gulf War, the Taliban, Al Qaeda, and ISIS as well as both wars in Afghanistan and Iraq.

**WORLD CULTURES**

Year/1 credit

10<sup>th</sup> grade

World Cultures is a yearlong course offered to the sophomore class. It is designed to introduce students to the world outside of the United States. The first half of the course will focus on the major historical events that have changed the world since the 16<sup>th</sup> Century. The remainder of the course will help students explore many regions, /cultures of the world by taking an in-depth look at the social, economic, political and geographical influences that have brought about change. During the course, students will be required to complete numerous projects and participate in class discussions. Current events will also be included throughout the course.

Dual  
Enrollment

MATHEMATICS						
YEAR	7th	8th	9th	10th	11th	12th
	Math 7 Transition Math	Algebra I Pre-Algebra PSSA Math Prep	Algebra I Algebra IA Algebra IB Algebra II Geometry Statistics	Algebra IB Algebra II Geometry	Algebra II Geometry Practical Math Trig/Pre-Calc Trigonometry (Hon)	Calculus (Hon) Consumer Math Trig/Pre Calc
<p>The following criteria are utilized and reviewed when determining a students' eligibility to enroll in Algebra I in 8<sup>th</sup> grade and in honors courses:</p> <ul style="list-style-type: none"> <li>• 85% or above GPA</li> <li>• Score Proficient or Advanced on PSSA or Keystone Exams</li> <li>• Teacher Recommendation</li> <li>• Administrative Approval</li> </ul>						

### ALGEBRA I

Year/1 credit

9<sup>th</sup> Grade

**KEYSTONE TESTED COURSE:** This course is an in-depth study of core algebraic topics. It begins with a review of some basic concepts involving signed numbers, operations with real numbers and order of operations; but quickly moves into the building blocks of the foundation of algebra. The content is organized around the families of functions, with special emphasis on linear and quadratic equations. The students will learn to represent functions verbally, as equations and graphically. Factoring polynomials, simplifying radicals, operations with rational expressions, probability, data analysis and some geometry topics are also included.

### ALGEBRA IA

Year/1 credit

9<sup>th</sup> Grade

The purpose of this course is to develop mathematical skills and prepare students for higher-level mathematics courses. Many basic concepts, which are essential for students to experience success in Algebra 1B, Geometry, and Algebra 2, are addressed in this course. After completing the course, students are prepared to take course Algebra 1B. Topics for this course include: Operations with real numbers and expressions, polynomials, linear equations, systems of linear equations, linear inequalities, functions and relations, coordinate geometry – slopes, and coordinate geometry – scatter plots, graphing.

### ALGEBRA IB

Year/1 credit

10<sup>th</sup> Grade

**KEYSTONE TESTED COURSE:** This course continues and builds upon the ideas of Algebra 1A. Students will review and expand upon the following concepts: real numbers and number operations, linear equations and functions, inequalities and absolute values. Students will be introduced to new concepts such as: systems of linear equations, quadratic functions and factoring, polynomials and polynomial functions, probability, and statistics.

### ALGEBRA II

Year/1 credit

10<sup>th</sup> or 11<sup>th</sup> Grade

This course continues and builds upon the ideas of Algebra I (or Algebra IA). Students will review and expand upon the following concepts: equations and inequalities, linear equations and functions, linear systems, quadratic functions and factoring. Students will be introduced to new concepts such as but not limited to: matrices, polynomials and polynomial functions, rational exponents, radical functions, and quadratic relations.

### CALCULUS (HONORS)

Year/1 credit

12<sup>th</sup> Grade

This course is designed for prospective majors in mathematics, engineering, medical fields, and computer science. Topics include functions and their graphs, exponential functions and logarithmic functions, limits, introduction to the derivative, applications using the derivative, differentiation by substitution. The product rule, the quotient rule, and the chain rule are discussed in depth and with many examples. Also, introduction to the integral, indefinite and definite integration, and the fundamental theorem of calculus. A scientific calculator (TI-30XIIS) will be used in this class. **PREREQUISITES:** Successful completion of Geometry and Trigonometry. Students should not take Trigonometry simultaneously with Calculus. **Prerequisite: Seniors Only and it is recommended that students have scored proficient or advanced on the Algebra Keystone Exam.**

### CONSUMER MATH

Year/1 credit

12<sup>th</sup> Grade

This course involves everyday mathematics using basic operations such as adding, subtracting, multiplying, and dividing. The course spends a great deal of time on fractions, decimals, and percentages. The course also involves paycheck deductions, balancing checkbooks, learning about interest, working with state and federal tax tables and financing loans over a period of time. Also, students learn about money, what caused the Great Depression, learn about investing. Note: Unless approved by administration on a case-by-case basis, this class is for Seniors only. Additionally, students who have successfully passed Geometry or Trigonometry may only take this course with administrative approval.

Dual  
Enrollment

**GEOMETRY**

Year/1 credit

10<sup>th</sup> – 12<sup>th</sup> Grade

This course is designed to develop the powers of spatial visualization while building knowledge of the relationships among geometric elements. The course content includes basic elements and definitions of geometry; the different approaches to thought; relationships of point, line, and plane; congruent figures; similar figures; and a brief study of circles. In geometry we will cover many topics including, but not limited to, proofs, parallel and perpendicular lines, properties of triangles and other polygons, and applications of area and volume. It will be demanding as students will need to be resourceful seeking out information and help, when needed. You will be required to think and reason in new ways.

**PRACTICAL MATH**

Year/1 credit

11<sup>th</sup> Grade

This course will be offered to only students in the 11th grade. This class will be for students that have taken Algebra 1B or have struggled with abstract mathematical concepts. Any student that has taken Algebra 1A and has successfully passed it will not be permitted to schedule this class. The course will involve basic skills in mathematics such as working with the four basic operations. Students will also work with fractions, decimals, and percentages in an extensive manner. Calculators will be used throughout the course. Students will work with rulers and learn how to read the different markings on the ruler. Also, there will time spent with basic Geometry skills such as right triangles, how many degrees are in a circle, or finding the perimeter and area of basic geometric shapes. Also, time will be spent working with conversions involving English and metric units. There will also be several other areas of concern in a math class of this nature that will offer the student "practical" skills in mathematics. Finally, this course will serve as a prerequisite to the Consumer Math class offered to only seniors at the high school.

**PRE-CALCULUS**

Year/1 credit

11<sup>th</sup> – 12<sup>th</sup> Grade

This course is designed for prospective majors in nursing, business, life sciences, etc. Topics include graphing linear inequalities, graphing parabolas, writing equations of lines, quadratic formula, trigonometric functions, difference quotient, and basic understanding of taking derivatives of equations. Students must have successfully passed both geometry and trigonometry.

**SAT PREP – MATH**

Semester/.5 credits

10<sup>th</sup> – 12<sup>th</sup> Grade

This course is designed to help students to prepare for the math sections of the SAT test. Students will learn about the format of the test and how the test is scored. They will also learn about the different topics which are covered on the math sections of this test and will practice with different strategies for approaching these problems. They will learn about different test-taking tips, as well as learn about and review many of the key concepts covered on the test. Students will take practice exams and get feedback on their performance. This course will also help students to work on monitoring their own progress, charting their improvements, identifying areas that need work, and building confidence.

**STATISTICS**

9-week/.25 credit

9<sup>th</sup> grade

This course is required for all students in grade 9. The two main content areas are Microsoft Excel and the mathematical content area of Statistics. Using the Pennsylvania Academic Standards for Science and Technology as a framework, students will develop a working knowledge of the spreadsheet package Microsoft Excel. Students learn the basics of creating a spreadsheet and move on to the advance spreadsheet features such as formatting, charting, reporting, functions, file operations, and data management. Separately, through the utilization of the Pennsylvania Academic Standards for Math as a framework, students are introduced to components within the discipline of Statistics. Students will summarize, represent, and interpret data on a single count or measurement variable as well as on two categorical and quantitative variables. Students will also analyze linear models to make interpretations based on the data, recognize and evaluate random processes underlying statistical experiments, and make inferences and justify conclusions based on sample surveys, experiments, and observational studies.

**TRIGONOMETRY**

Year/1 credit

11<sup>th</sup> – 12<sup>th</sup> Grade

This course blends topics from algebra and analytical geometry. Course topics include: quadratic functions, logarithmic functions, the six basic trigonometric functions, along with plenty of graphing. This course is quite involved and many higher level topics will be covered in order to prepare the student for pre-calculus or calculus.

**TRIGONOMETRY (HONORS)**

Year/1 credit

11<sup>th</sup> – 12<sup>th</sup> Grade

This is an extensive in-depth algebra course along with the study of trigonometry. The course continues with material learned in Algebra II. Some of the Algebra 3 topics include solving exponential and logarithmic equations. Working with the conic sections and graphing them. Synthetic division and the remainder theorem. Once this material is covered, the study of trigonometry will begin. Students will learn about right triangles, special case triangles such as 30-60-90 and 45-45-90. Students will also work with all 6 trig. functions. Students will work with the trig. identities along with the law of sines and law of cosines.

SCIENCE						
YEAR	7th	8th	9th	10th	11th	12th
CP	Life Science	Earth & Physical Science	Enviro Science Bio/Chem	Biology Forensics Genetics	Chemistry I (HON) Chemistry II Physics Anatomy & Physiology (HON) Forensics Genetics	Chemistry II Physics Anatomy & Physiology (HON) Ecology Forensics Genetics
Dual Enrollment					BL 201 or BIO 105	BL 201 or BIO 105
<p>The following criteria are utilized and reviewed when determining a students' eligibility to enroll in an honors course:</p> <ul style="list-style-type: none"> <li>• 85% or above GPA</li> <li>• Score Proficient or Advanced on PSSA or Keystone Exams</li> <li>• Teacher Recommendation</li> <li>• Administrative Approval</li> </ul>						

### **ANATOMY AND PHYSIOLOGY (HONORS)**

Year/1 credit

11<sup>th</sup> or 12<sup>th</sup> grade

Students will study structural and molecular biology, basic biochemical processes, cell physiology, and anatomy and physiology of major human body systems. Main units of study include: Basic Biochemistry-matter, molecules and compounds, chemical bonds and chemical reactions, organic/inorganic compounds, Cell and Tissues – Anatomy of a generalized cell, membrane transport, cell division, principals of heredity, protein synthesis, body tissues; Major Systems of the Body – skin and body membranes, skeletal system, muscular system, cardiovascular system, respiratory system, digestive system, nervous system, reproductive systems. This course will require several labs and dissections that are necessary to gather a true understanding of the course topics. **Prerequisite: It is recommended that students have scored proficient or advanced on the Biology Keystone.**

### **BIOLOGY**

Year/1 credit

10<sup>th</sup> grade

**KEYSTONE TESTED COURSE:** Biology is a first year biology course which provides students with an overview of the biological sciences. It is structured around two main ideas: Cells & Cell Processes and The Continuity and Unity of Life. Students will learn the history of Biology, basics of transporting substances into and out of the cell, growth and development through cell division, and methods of processing energy including photosynthesis and cellular respiration. The course concludes with a culminating discussion of heredity, genetics, and finally the evolution and study of populations and their ecological interactions. The course of Biology is primarily concerned with the development of students' basic understanding of life on earth, how to apply Biology to their lives, and the common processes governing all living organisms. Throughout the course, students will perform hands-on experiments using the scientific method, along with analyzing experimental data. Both of which will lead to the discovery and understanding of basic biological principles and processes. All of the course information will be on the state required testing of the Keystone at the end of the year. The standards of the course will be followed, and multiple days of review will occur to prepare the students for the test.

### **BIOCHEMISTRY**

Year/1 credit

9<sup>th</sup> grade

Bio/Chemistry is a course that focuses on an introduction to human anatomy and physiology. An emphasis is placed at the chemical, cellular, and tissue levels.

### **CHEMISTRY**

Year/1 credit

11<sup>th</sup> grade

Chemistry deals with matter and the changes it undergoes. It provides a foundation in fundamental chemistry concepts and lab techniques.

### **CHEMISTRY I W/LAB (HONORS)**

Year/1.2 credits

11<sup>th</sup> or 12<sup>th</sup> grade

Chemistry I (Honors) is a course which deals with matter and the changes it undergoes. It is designed to provide a foundation in fundamental chemistry concepts and lab techniques covered in introductory college chemistry courses.

### **CHEMISTRY II**

Year/1 credits

12<sup>th</sup> grade

Chemistry II deals with matter and the changes that it undergoes. It is designed to review and expand on topics covered in Chemistry I. **Prerequisite: Chemistry I**

**ECOLOGY**

Year/1 credit

12<sup>th</sup> grade

This course will address the concepts of environmental interactions. The course starts with a base knowledge of living organisms in our environment and builds on the interactions of living and nonliving aspects of the ecosystem. Material meets Pa Environment and Ecology Standards.

**ENVIRONMENTAL SCIENCE**

Year/1 credit

9<sup>th</sup> grade

This science course required for 9<sup>th</sup> grade students that will introduce students to the interactions of living and nonliving parts of our environment. Students will survey topics ranging from: the history of human impact on the environment, the air, the land, the water, the life, current human impacts on the living and nonliving aspects of the environment, and how to create a sustainable world.

**FORENSICS**

Semester/.5 credits

10<sup>th</sup> – 12<sup>th</sup> grade

Students will work hands on solving pseudo crime scenes while getting experience in different STEM fields. This course will provide background information to any forensic work field.

**GENETICS**

Semester/.5 credits

10<sup>th</sup> – 12<sup>th</sup> grade

Students will work through a hands on course that looks into the various applications to the field of genetics. We will study Punnett Squares, pedigrees, job fields, and connections to forensics throughout the course.

**PHYSICS**

Year/1 credit

11<sup>th</sup> or 12<sup>th</sup> grade

Physics is primarily for college bound students. This course covers the physical properties of materials and stresses topics of mechanics, sound, and light optics by using scientific methods and problem solving. It takes these topics and relates them to real world situations.

SAFETY EDUCATION						
YEAR	7th	8th	9th	10th	11th	12th
	Health 7 Phys Ed	Phys Ed	Phys Ed Health Driver's Ed	Phys Ed	Phys Ed	Phys Ed

**DRIVER EDUCATION**

Semester/.5 credits

9<sup>th</sup> or 10<sup>th</sup> grade.

Driver's Education is a semester long course that will introduce students to the privilege of driving in Pennsylvania and the responsibilities that go along with it. Students will become familiarized with traffic laws as well as the general rules of the road. This course will help prepare new drivers to obtain their permit and license. It will also help new drivers that already have their permit or license to fine tune, improve and develop good, low-risk driving habits. Additionally, the course provides the minimum 30 hours of classroom education required by the state.

**HEALTH**

Semester/.5 credits

9<sup>th</sup> - 12<sup>th</sup> grade

This is a semester course that is required for graduation. Students will discuss health and physical fitness components, nutrition, mental and emotional disorders, depression, stress, anxiety, substance abuse, reproductive systems, conception, contraception, abortion, STD/STI's, hands only CPR, and AED use. Decision making and coping skills will be emphasized through all topics.

**PHYSICAL EDUCATION**

Semester/.5 credits

7<sup>th</sup> - 12<sup>th</sup> grade

Physical education classes are required of all students in grades 7-12 and are offered every day for one semester. Physical education classes provide opportunities for students to participate in a variety of individual and group activities and intramurals. Students are required to wear the P.E. uniform, blue shorts, a plain white t-shirt or a shirt that says Claysburg or Claysburg Kimmel on it, and sneakers. Students are evaluated on dressing and participation, skills, fitness testing, class routine and rules, effort, initiative, cooperation, and attitude.

## ART / BAND/ CHORUS/ MUSIC

YEAR	7th	8th	9th	10th	11th	12th
Electives	Art 7 Music 7 Jazz Band Jr High Band Jr High Chorus Small Chorus	Art 8 Music 8 Jazz Band Jr High Band Jr High Chorus Small Chorus	Art Elective Band Chorus Jazz Band Music Appreciation	Art Elective Band Chorus Jazz Band Music Appreciation Music Theory	Art Elective Band Band (HON) Chorus Jazz Band Music Appreciation	Art Elective Band Band (Hon) Chorus Jazz Band Music Appreciation

### ART ELECTIVE

Semester/.5 credits

9<sup>th</sup> - 12<sup>th</sup> grade

During this yearlong course, students will be exploring a wide variety of art concepts and mediums based on the elements and principles of design. Fundamentals of drawing, painting, and printmaking, as well as, folk art will be produced using clay, paint, batik, silkscreen, colored pencil, and scratchboard, etc. **Prerequisite:** Successful completion of 9<sup>th</sup> grade art or art elective with an overall average of no less than a B+ and/or teacher approval. Students in 7<sup>th</sup> and 8<sup>th</sup> grade should not be scheduled into this class. Limited to 24 students.

### BAND

Year/.6 credit

9<sup>th</sup> - 12<sup>th</sup> grade

Senior High School Band is offered to students in grades 9-12 as a regular part of the school day. This class meets three times a week for one class period and is graded as part of the school curriculum. During the school year the band students are exposed to marching band, concert band, and small group lessons. The band performs at all the football games, parades, concerts, and at local community functions. Students will also have the opportunity to attend band festivals outside the school day for further enrichment. The band is open to all students who play a standard wind band instrument.

### Band (Honors)

Year/.6 credit

11<sup>th</sup>-12<sup>th</sup> grade

This course is a weighted, elective course, and is available to each student once, in either grade 11 or 12, or by director/teacher recommendation in grades 9 or 10. All band course requirements are implemented, in addition to a more rigorous honors-level approach to the band curriculum. This course **requires** both ensemble and solo activities, which are designed to develop elements of musicianship including tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, studying historically significant styles of literature, and integration of other applicable disciplines. Experiences include improvising, playing by ear, sight-reading, and researching music. Students develop the ability to understand and convey composers' intent in the performance of music. NOTE: Students selecting this honors level band course will be required to complete weekly tasks beyond the regularly assigned Sr. High Band requirements. Rigorous, extended assignments will be made using established method books for each individual instrument. These assignments will be performed for the teacher in a live setting. These performances could occur before, during, or after school depending upon the student and teacher schedules.

### CHORUS

Year/ 1 credit

9<sup>th</sup> - 12<sup>th</sup> grade

This course is for students in grades 9 through 12 who enjoy singing and performing in a large group setting. Students will prepare music from many different genres from popular to classical, and selections from other countries. Music will be performed in three and four-part harmony. Teamwork, cooperation, and self-confidence through performing will be emphasized, as well as individual vocal technique. Students will be graded on cooperation, participation, and attendance at concerts. Other extra-curricular opportunities will be offered such as festival participation and an annual trip.

### JAZZ BAND

Year/1 credits

9<sup>th</sup> - 12<sup>th</sup> grade

Jazz Band is offered to students in grades 7-12. This class is graded as part of the school curriculum. Students will be exposed to various forms of jazz music, including swing, bebop, Latin, funk and rock in a performance setting. Students will also learn to create improvised solos. Students must play a standard jazz ensemble instrument to participate. This ensemble performs several concerts throughout the year.

### MUSIC APPRECIATION

Semester/.5 credits

9<sup>th</sup> - 12<sup>th</sup> grade

Music Appreciation is for students in Grades 9-12 who have an interest in music history, music genres, and influential musicians from the 20<sup>th</sup> Century. Students will learn how to listen, analyze, and evaluate musical performances from many different genres of music. This class will include projects based on the interests of the individual students.

### MUSIC THEORY

Semester or Year/5credit or 1 credit

9-12 grade

Music Theory is an independent study course offered to students who wish to further their knowledge and understanding of the fundamentals of music. It offers a thorough and comprehensive course of study in harmony and linear aspects of music. Topics to be covered include: note names, rhythms, meter, keys, scales, intervals, triads, seventh chords and four-part writing. Form and music history will also be highlighted throughout the class. No prior musical experience is necessary. Students will work independently on assignments.

## BUSINESS

YEAR	7th	8th	9th	10th	11th	12th
<b>Business/ Computer Courses</b>	Computer 7	Intro to Computer 8	Computer Apps Microsoft Office Business Leadership	Computer App Intro to Business Keyboarding Business Leadership	Accounting Business Law Intro to Business Keyboarding Business Leadership	Accounting Desktop Publishing Keyboarding Multimedia Business Leadership

### **ACCOUNTING**

Year/1 credit

11<sup>th</sup> – 12<sup>th</sup> grade

Students are given an overview of the complete accounting process with emphasis on analyzing and recording transactions in journals, keeping ledger accounts, and preparing financial statements for a service business. The complete accounting cycle through the post-closing trial balance is studied. An accounting simulation will also be completed.

### **COMPUTER APPLICATIONS**

Semester/.5 credits

9<sup>th</sup> grade

This course is designed to offer the student a chance to learn computer skills that will be of use in other courses, in college, or on the job. It will cover three basic areas of instruction: Microsoft Word, Excel, and PowerPoint. The course is designed as a “hands-on” course and students will be working on the computer each day. The software used is Microsoft Office.

### **BUSINESS LAW**

Year/1 credit

11<sup>th</sup> – 12<sup>th</sup> grade

This course is designed to introduce the student to the study of law through a brief look at how law developed, the legal system in the United States, the functions of the federal and state court systems, and civil and criminal law. Additional topics include computer law, financial crimes, legal careers, international law, discrimination, contracts and business organization. This course will help students become aware of their rights and responsibilities under the laws so they can function as responsible citizens.

### **BUSINESS LEADERSHIP**

Year/1 credit

9<sup>th</sup>-12<sup>th</sup> grade

This course is designed to prepare students for leadership roles in school, extra-curricular, and community activities, and for future academic, career, and citizenship responsibilities. Focus areas include competent, aggressive business leadership, confidence building, the American business enterprise, character, citizenship, team-work, scholarship and, goal setting, and transitioning to post-secondary life. While not a requirement, it is highly recommended that students in this course join Future Business Leaders of America (FBLA). FBLA is designed to help members develop their business leadership, networking, career development, and social skills. Participation in FBLA has a direct impact on the success of a person’s career in the real world and what is expected of them in the workplace. FBLA members are expected to participate in FBLA’s regional, state, and national programs. **Teacher Approval.**

### **MICROSOFT OFFICE**

Semester/.5 credits

9<sup>th</sup> grade

This course is designed to bring students to a basic level of proficiency in applying computer technology in the educational setting. Emphasis will be placed on file-management and appropriate technology use in a network environment. Students will be introduced to fundamental computer concepts, beginning keyboarding skills, word-processing, multi-media presentations, Internet applications and spreadsheets.

### **DESKTOP PUBLISHING**

Semester/.5 credits

12<sup>th</sup> grade

This course offers the student an introduction to Desktop Publishing. Students will have considerable hands-on computer experience using the software Microsoft Publisher. The course will teach the basics of good design, page layout, production of brochures, certificates, posters, cards, and invitations.

### **INTRO TO BUSINESS**

Year/1 credit

10<sup>th</sup> – 11<sup>th</sup> grade

This course is designed to acquaint students with the activities associated with a business. Students will gather a basic understanding of general business, economics, entrepreneurship, business communications, business ethics, the government’s role in business, marketing, and business finance. This course gives students a broad exposure to business operations and a solid background for additional business courses. Students will also cover leadership skills, technology, and work/career skills.

### **KEYBOARDING**

Year/1 credit

10<sup>th</sup> – 12<sup>th</sup> grade

This course offers the opportunity for students to learn to type by touch, using correct fingers on the keyboard. Students will also learn to format basic letters, memos, reports, and tables. Microsoft Word is used for this class. Students will learn computer skills that will enable them to thrive in a complex, highly technological competitive economy for the 21st century in a collaborative environment.

### **MULTIMEDIA**

Semester/.5 credits

12<sup>th</sup> grade

This course is designed to offer the student an introduction to Multimedia Presentations. The course will give the students considerable hands-on computer experience using the software application PowerPoint. The course will teach basics of creating, modifying, enhancing, and customizing presentations, as well as, working with embedded objects and hyperlinks.

## ADDITIONAL ELECTIVES

### **CAD and 3-D PRINTING**

Year/1 credit

11<sup>th</sup> - 12<sup>th</sup> grade

Basic AutoCAD and Autodesk Inventor programs will be demonstrated and used to create drawings of machine parts, plans, etc. 3-D printing will be introduced and utilized to create realistic three dimensional objects. A basic understanding of drafting is needed to complete this course. Prerequisite: Drafting.

### **CAD2**

Year/1 credit

12<sup>th</sup> grade

Students will use advanced features of AutoCAD and Autodesk Inventor to create drawings. Students will design concepts and then manufacture those designs using 3D printers and CNC machines. A working knowledge of AutoCAD is needed to complete this course. Prerequisite: CAD and 3-D printing

### **CODING**

Full Year

10<sup>th</sup> – 12<sup>th</sup> grade

This course is an elective full year coding course. Students need to have a background in the basics of block coding and written code language. Throughout the course, there will be a variety of units that focus on areas of code: binary, block, written, etc. We will also complete projects that challenge students to think creatively to solve problems using drones, bionics, robotics, and apps.

### **DRAFTING –TECHNICAL/MECHANICAL**

Year/1 credit

10<sup>th</sup> - 12<sup>th</sup> grade

Drafting board sketching, lettering, geometrical construction, multi-view projection, dimensioning, etc. will be demonstrated. Students will draw gears, cams and structural drawings. Students will be introduced to architectural construction, blueprinting, and CAD (Computer Assisted Drafting).

### **ENTREPRENEURSHIP**

9-week/.25 credit

9<sup>th</sup> grade

This course is required for all students in grade 9. This class will serve as a foundation for the creative processes necessary for inventing and marketing of products. Students will develop individual product ideas, and detail the steps necessary to guide the process from idea to product. Knowledge and experiences will be gained in many areas that are relative to future careers. These areas, commonly under the concept of “Entrepreneurship” include communications, marketing, graphic design, video production, and business planning.

### **MAKERSPACE**

9-week/.25 credit

9<sup>th</sup> grade

This course is required for all students in grade 9. Students will be introduced to the basics of coding language through block coding as well as writing code in long form. This course will offer students the opportunity to write code using a gaming-style platform, as well as introductory lessons into coding drones, bionics, and robotics.

### **MANUFACTURING**

Marking period/.25 credits

9<sup>th</sup> grade

This course is required for all students in grade 9. Students will learn about the process and history of manufacturing, and how manufacturing changed during the Industrial Revolution, as well as during the Technology Age.

### **STEM Trends**

Semester /.5 credit

9<sup>th</sup> – 12<sup>th</sup> grade

The Makerspace class is a hands-on learning environment in which students use tools and technology to solve real-world problems. Students take ideas from concept to completion, learning the design-build-communicate process (Engineering Design Process). Students will explore careers and design authentic projects in areas such as APP design, bionics, drone utilization, architecture, inventions, alternative energy, graphic arts/design, robotics, engineering, CAD, 3D printing or any of a dozen other fields of interest. Students will demonstrate safe and proper use of technology, equipment, and tools. Students will learn to lead, follow instructions, cooperate with others, and work effectively in a team to accomplish authentic design and engineering tasks.

### **YEARBOOK**

Year/1 credit

9<sup>th</sup> - 12<sup>th</sup> grade

Yearbook is a course designed to allow a select group of high school students to participate in the production of the yearly book publishing process. Computer and writing skills are needed as well as availability in the student schedule. The course takes place during the Advisory Period, daily, and is very student-oriented/involved. The course is structured toward the design and development of page spreads, photography, communication, and commitment. The yearbook is designed for the entire Junior/Senior High School with special attention toward the senior class. **Prerequisite: Teacher approval**

Course Plan 7-12						
ENGLISH / LANGUAGES						
Grade Level	7th	8th	9th	10th	11th	12th
English Core Courses	English 7 Reading 7	English 8 Reading 8	English 9	English 10*	English 11 or English 11/Speech & Comp (HON)	English 12 or English 12 (HON)
English Electives		PSSA Reading Study Skills Explor. Spanish	Spanish I Yearbook	Spanish II Yearbook	Spanish III SAT PREP Yearbook	Spanish IV Yearbook
MATHEMATICS						
Grade Level	7th	8th	9th	10th	11th	12th
Math CP A	Math 7 Transition Math	Algebra 1* PSSA Math Prep	Algebra II Statistics	Geometry	Trigonometry (Hon)	Calculus (HON) Pre-Calculus
Math CP B	Math 7 Transition Math	Pre-Algebra PSSA Math Prep	Algebra I* Algebra IA Statistics	Algebra II Algebra IB*	Geometry Algebra II Practical Math	Trigonometry Pre-Calculus Geometry
Math Applied	Math 7 Transition Math	Math 8 PSSA Math Prep	Pre-Algebra Algebra IA Statistics	Algebra IA Algebra IB*	Algebra IB* Practical Math	Algebra II Geometry Trigonometry Consumer Math
SCIENCES						
Grade Level	7th	8th	9th	10th	11th	12th
Science CP	Life Science	Earth & Physical Science	Environmental Science Bio/Chem	Biology*	Anatomy & Physiology (HON) Chemistry I (HON) Physics	Anatomy & Physiology (HON) Chemistry II Physics
Science Applied	Life Science	Earth & Physical Science	Environmental Science Bio/Chem	Biology* Genetics Forensics	Chemistry Genetics Forensics	Ecology Genetics Forensics
SOCIAL SCIENCES						
Grade Level	7th	8th	9th	10th	11th	12th
Social Sciences Core Courses	World History	American History	PA History/ Civics	World Cultures	American History American History (HON)	POD/Economics
Social Sciences Electives	Life Skills			Psychology (HON)	Psychology (HON) Current Events Holocaust Local History Terrorism & the US	Psychology (HON) Current Events Holocaust Local History Terrorism & the US
ELECTIVES						
Grade Level	7th	8th	9th	10th	11th	12th
Business/ Computer Electives	Computer 7	Intro to Computer 8	Computer Apps Microsoft Office Business Leadership	Comp Apps Intro to Business Keyboarding Business Leadership	Accounting Business Law Intro to Business Keyboarding Business Leadership	Accounting Desktop Publishing Keyboarding Multimedia Business Leadership
Health / PE / Driver's Ed	Health PE	PE	Driver's Ed Health PE	PE	PE	PE
Fine Arts Electives	Art 7 Music 7 Jazz Band Jr High Band Jr High Chorus Small Chorus	Art 8 Music 8 Jazz Band Jr High Band Jr High Chorus Small Chorus	Elective Art Music Appre Jazz Band Sr High Band Sr High Chorus Small Chorus	Art Elective Jazz Band Music Theory Sr High Band Sr High Chorus Small Chorus	Art Elective Jazz Band Band Band (Hon) Sr High Chorus Small Chorus	Art Elective Jazz Band Band Band (Hon) Sr High Chorus Small Chorus
STEAM Education Electives	Design Process STEAM 7	STEAM 8	Entrepreneurship MakerSpace Manufacturing	Drafting –Tech/Mech Coding	Drafting – Tech Mech CAD & 3D Printing Coding	Drafting – Tech Mech CAD & 3D Printing CAD 2 Coding
Students must meet the following criteria to be eligible to participate in an honors course or to move from Math 7 into Algebra I: <ul style="list-style-type: none"> <li>85% or above GPA</li> <li>Recommended that students score proficient or advanced on PSSA or Keystone Exams</li> <li>Teacher Recommendation and Administrative Approval</li> </ul> *Students will take the Keystone Algebra 1 exam at the end of their Algebra 1 or Algebra 1B Course, the Biology Keystone exam at the end of their Biology Course and the Literature Keystone at the end of their English 10 Course.						

