

WARREN COUNTY SCHOOL DISTRICT

SECONDARY LEVEL

COURSE DESCRIPTION BOOKLET

GRADES 9 – 12

JANUARY 2022



WARREN COUNTY SCHOOL DISTRICT
CENTRAL ADMINISTRATIVE OFFICES
6820 MARKET STREET
RUSSELL, PA 16345

AMY J. STEWART
SUPERINTENDENT

Dear Parents/Guardians and Students:

Selecting a program of studies is one of your most important steps toward future success. Choices must be made carefully and wisely to ensure that a student is fulfilling his/her potential in addition to wisely preparing for future goals. In this book you will find important information to guide you through both sequence and course selections.

Classes will be scheduled to run based upon enrollment.

If you have questions concerning scheduling, contact the following principals or school counselors:

Eisenhower Middle High School	757-8878
Mrs. Ericka Alm, Principal	
TBD, Assistant Principal	
Mrs. Lori Hahn, Counselor	
Sheffield Area Middle High School	968-3720
Mr. Glenn Smith, Principal	
Ms. Carrie Warner, Counselor	
Warren Area High School	723-3370
Mr. Jeffrey Flickner, Principal	
Mr. Jason Fisher, Assistant Principal	
Mrs. Amy Stimmell, Assistant Principal	
Ms. Colleen Golab, Counselor (Grades 9-12, A-J)	
Mrs. Victoria Derby, Counselor (Grades 9-12, K-Z)	
Youngsville High School	563-7573
Ms. Amy Beers, Principal	
Ms. Kimberly Yourchisin, Assistant Principal	
Dr. Susan Gizzie, Counselor	
Warren County Career Center	726-1260
Mr. James Evers, Principal	
Mrs. Carrie Smaroff, Counselor (WAHS Career Center students)	
Virtual Academy	723-0574
Mrs. Misty Weber, Principal	
Mr. Joshua Vincent, Principal	
Mr. Matthew Getner, Counselor	
Mr. Neal Kent, Coordinator	

Sincerely,

Mr. Eric Mineweaser
Director of Curriculum, Instruction, and Assessment

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Office of Athletics and Co-Curricular Activities

Warren County School District
Richard Gignac, Supervisor of District-Wide Athletics and Co-Curricular Activities
Melissa Bullock, Secretary of Athletics and Co-Curricular Activities
Telephone: 814/723-6900 extension 1020
Fax: 814/757-8529

MEMORANDUM

TO: Parents/Guardians and Students

FROM: Mr. Richard Gignac
Coordinator of District-Wide Athletics and Co-Curricular Activities

RE: NCAA Initial Eligibility Guidelines

Students who are athletically talented or have an interest in athletics should take note that to be eligible to participate in athletics during their first year at a Division I or Division II College there are very specific prerequisites which must be met. Those requirements begin with the courses the students take in grades nine through twelve. The classes for which students register in ninth grade must meet these NCAA requirements. Students will fall behind NCAA requirements from that point if the students neglect to register for appropriate courses. Briefly, students must enroll in and successfully complete as many as 16 NCAA Approved Core Courses. The NCAA will only recognize academic or college prep type classes. Applied, business, or career classes are not recognized as Core Courses by the NCAA. **Courses recognized by the NCAA as Approved Core Courses are designated in the WCSD Course Selection Booklet by an asterisk (*).** The NCAA also displays the specific List of Approved Core Courses (Form 48H) for your school on-line at the site below.

www.eligibilitycenter.org

SAT and Act test scores must be sent to the Eligibility Center from the appropriate agency using code 9999.

Thank you.

RG/mrb

NCAA Eligibility

In order to be eligible to participate in NCAA Division I or Division II athletics, a student-athlete must meet the minimum **Core Course** requirements detailed in the boxes below.

In the Warren County School District Course Description Booklet, all eligible NCAA **Core Courses** are marked with an asterisk (*).

Virtual Academy coursework, designated on students' transcripts with VIRTUAL, meets NCAA nontraditional core course legislation.

Division I (16 Core Courses)*

- 4 years of English**
- 3 years of mathematics
(Algebra I or higher)**
- 2 years of
natural/physical science
(1 year of lab if offered)**
- 1 year of additional
English, math, or
natural/physical science**
- 2 years of social science**
- 4 years of additional
courses (from any area
above, foreign language,
or comparative
religion/philosophy)**

Division II (16 Core Courses)*

- 3 years of English**
- 2 years of mathematics
(Algebra I or higher)**
- 2 years of
natural/physical science
(1 year of lab if offered
by high school)**
- 3 years of additional
English, mathematics, or
natural/physical science**
- 2 years of social science**
- 4 years of additional
courses (from any area
above, foreign language,
or comparative
religion/philosophy)**

* Beginning August 1, 2013, students planning to attend an NCAA Division I or II college or university will be required to complete 16 core courses.

For more information about NCAA Eligibility, log on to www.eligibilitycenter.org or see your school counselor.

**WARREN COUNTY SCHOOL DISTRICT
SEQUENCE CREDIT REQUIREMENTS – GRADES 9 - 12**

REQUIRED COURSES FOR EACH SEQUENCE ARE LISTED, BEGINNING ON PAGE 4.

Credit Requirements for Grades 9 through 12

English	4.000
Mathematics	3.000 or 4.000
Science	4.000 or 3.000
Social Studies	4.000
Physical Education	1.000
Health	.500
Computer 9 or STEM 9	.500
College and Career Readiness	1.000
Electives*	<u>7.000</u>
Total Credits for Graduation	25.000

CREDIT REQUIREMENTS SEQUENCING FOR GRADUATION							
Class of 2019		Class of 2020		Class of 2021		Class of 2022 and Beyond	
26 credits		25 credits		24 credits		25 credits	
English	4.0	English	4.0	English	4.0	English	4.0
Math	4.0 or 3.0	Math	4.0 or 3.0	Math	4.0 or 3.0	Math	4.0 or 3.0
Science	4.0 or 3.0	Science	4.0 or 3.0	Science	4.0 or 3.0	Science	4.0 or 3.0
Social Studies	4.0	Social Studies	4.0	Social Studies	4.0	Social Studies	4.0
Physical Education	1.0	Physical Education	1.0	Physical Education	1.0	Physical Education	1.0
Health	0.5	Health	0.5	Health	0.5	Health	0.5

CREDIT REQUIREMENTS SEQUENCING FOR GRADUATION (continued)							
Class of 2019		Class of 2020		Class of 2021		Class of 2022 and Beyond	
26 credits		25 credits		24 credits		25 credits	
Computer Technology	0.5	Computer Technology	0.5	Computer Technology	0.5	Computer 9 or STEM 9	0.5
Technology Education	0.5	Technology Education	0.5	Technology Education	0.5	College & Career	1.0
Electives	8.5	Electives	8.5	Electives	6.5	Electives	7.0

Credit Requirements for Grades 9 through 12 (Career Center Students from all attendance areas)

English	4.000
Mathematics	3.000
Science	3.000
Social Studies	3.000
Physical Education	1.000
Health	.500
Computer 9 or STEM 9	.500
College and Career Readiness	1.000
Electives*	<u>9.000</u>
Total Credits for Graduation	25.000

CREDIT REQUIREMENTS SEQUENCING FOR GRADUATION							
Class of 2019		Class of 2020		Class of 2021		Class of 2022 and Beyond	
26 credits		25 credits		24 credits		25 credits	
English	4.0	English	4.0	English	4.0	English	4.0
Math	4.0 or 3.0	Math	4.0 or 3.0	Math	3.0	Math	3.0
Science	4.0 or 3.0	Science	4.0 or 3.0	Science	3.0	Science	3.0
Social Studies	4.0	Social Studies	3.0	Social Studies	3.0	Social Studies	3.0
Physical Education	1.0	Physical Education	1.0	Physical Education	1.0	Physical Education	1.0
Health	0.5	Health	0.5	Health	0.5	Health	0.5
Computer Technology	0.5	Computer Technology	0.5	Computer Technology	0.5	Computer 9 or STEM 9	0.5
Technology Education	0.5	Technology Education	0.5	Technology Education	0.5	College and Career	1.0
Electives	8.5	Electives	8.5	Electives	8.5	Electives	9.0

(Please refer to WCSD Policy 9737 – Graduating Class of 2022 and Beyond)

**It is recommended for any student that is considering post-secondary education to include as elective selections at least two consecutive years of a World Language Course.*

Please note: Courses graded with a P/F will count if passed for graduation but will not count toward a student’s grade point average (GPA). Courses taken and passed outside the school district may count as credit toward graduation, if pre-approved by the principal or his/her designee, but do not count toward a student’s GPA.

In order for a student to graduate from the District, the student must demonstrate proficiency all required State assessments.

If you have any questions, contact your school guidance counselor or principal.

COURSE AVAILABILITY AT A SPECIFIC HIGH SCHOOL

Courses listed in this booklet are available to ALL Warren County School District students, but not necessarily taught at every high school. For example, the traditional vocational (Vo-Tech) courses such as Auto Collision Technology, Building Construction Occupations, Electronics/Digital Technology, Welding Technology, and others are available only at the Warren County Career Center. Other courses may be available online through the Warren County School District Virtual Academy.

Questions about the availability of a course being taught at a particular building should be addressed to the building principal and will be dependent on several factors, such as student sign-up numbers for a particular class and the availability of properly certificated teachers, among other factors.

ACCELERATION OPPORTUNITY

Students may accelerate beyond the recommended grade levels should be followed by Policy 9750 and the procedures in place related to this policy.

LANGUAGE ARTS SEQUENCES – GRADES 9-12

I. College Preparatory Sequence

- A. Grade 9 English 9 College Preparatory*
- B. Grade 10 English 10 College Preparatory*
- C. Grade 11 English 11 College Preparatory*
- D. Grade 12 English 12 College Preparatory*

II. College Preparatory Sequence with Honors

- A. Grade 9 English 9 Honors*
- B. Grade 10 English 10 Honors*
- C. Grade 11 English 11 Honors*
- D. Grade 12 English 12 Honors* OR AP English Literature and Composition*

III. Career Sequence

- A. Grade 9 English 9
- B. Grade 10 English 10
- C. Grade 11 English 11
- D. Grade 12 English 12

Students not proficient on the Keystone Literature exam MUST receive a form of Keystone Literature Remediation course (**Remediation is a state requirement**).

SOCIAL STUDIES SEQUENCES – GRADES 9 - 12

- I. College Preparatory Sequence
 - 1) Grade 9 United States History I College Preparatory *
 - 2) Grade 10 United States History II College Preparatory*
 - 3) Grade 11 Modern World History College Preparatory*
 - 4) Grade 12 Economics College Preparatory* **and**
American Government College Preparatory*

- II. College Preparatory Sequence with Advanced Placement (AP)
 - 1) Grade 9 United States History I* College Preparatory
 - 2) Grade 10 AP American History
 - 3) Grade 11 AP European History
 - 4) Grade 12 AP United States Government and History

- III. Career Sequence
 - 1) Grade 9 United States History I
 - 2) Grade 10 United States History II
 - 3) Grade 11 Modern World History
 - 4) Grade 12 Economics **and**
American Government

Students are responsible for taking the Citizenship Assessment prior to graduation. The Citizenship Assessment will take place at the end of United States History I and American Government. For those students on the career sequence and only taking three social studies credits, Economics/American Government should be taken as the third social studies credit.

MATHEMATICS SEQUENCES – GRADES 9 - 12

I. College Preparatory Sequence

- Grade 9 Algebra I College Preparatory*
- Grade 10 Algebra II College Preparatory*
- Grade 11 Geometry College Preparatory*
- Grade 12 Pre-Calculus * OR Trigonometry with Integrated Algebra* OR Statistics*

III. Honors Sequence for students that have successfully completed Honors Algebra I in Grade 8

- Grade 9 Algebra II Honors*
- Grade 10 Geometry Honors*
- Grade 11 Pre-Calculus Honors*
- Grade 12 AP Calculus* **or** Calculus Honors *

IV. Career Sequence

- Grade 9 Algebra IA
- Grade 10 Algebra IB
- Grade 11 Geometry
- Grade 12 Consumer Mathematics with Applications **

* Students planning to attend an NCAA Division I or II college or university will be required to complete 16 core courses.

**An elective credit is not required for the three (3) year sequence.

MATH ELECTIVE OPTIONS:

SAT Math

MATHEMATICS DEPARTMENT

Courses provide opportunities for each student to become proficient in mathematics. Teaching and learning will focus on:

-Conceptual understanding

-Procedural abilities

-Problem-solving skills

Math courses require students to be responsible for and actively involved in their own learning. Our math program requires students to effectively demonstrate the outcomes found in **Pennsylvania State's Academic Standards for Mathematics**, as well as the **Warren County School District Outcomes**.

Successful students are responsible for content-specific performance outcomes. Students will use:

- New modes of communication and procedural skills
- Technologies of graphing calculators or computers to support their mathematical development
- Sound mathematical reasoning to develop conjectures and support conclusions

Students must learn to communicate effectively using appropriate English, symbolic notations, tables, lists and graphs. Successful students must find and make connections among mathematical ideas and their applications to real-world situations.

The Warren County School District mathematics program contains required sequential courses with prerequisites. Unless otherwise noted, a prerequisite course must be successfully completed with a grade of 75% in honors, a grade of 70% in college preparatory, and a passing grade in the academic class before a student continues with the next course at the same level. Any student not meeting these prerequisites may continue with the next course in the sequence but at a lower level or should retake the course at the same level. These prerequisites are necessary to provide the student with the opportunity to develop a proficient understanding of the concepts and skills. Serious consideration should be given to teacher recommendations regarding the next mathematics course to be scheduled.

The course selection process is based on the following course prerequisites, the scope and nature of the work required, the course's demands, graduation requirements, and standardized test scores. All students must complete three (3) credits in mathematics. Because the SATs include concepts covered in Algebra 1, Geometry, and Algebra 2, it is highly recommended that students complete Algebra 2 by their junior year. It is also strongly recommended that level 2 (College Preparatory) students take one math course per year. Additional higher-level math courses including Pre-Calculus, Statistics, and possibly Calculus are recommended for students continuing mathematics or science study after high school. *A TI graphing calculator is highly recommended for all mathematics courses.*

COURSE SEQUENCE FOR MATHEMATICS

FIND THE LAST MATH COURSE YOU PASSED THIS YEAR. READ ACROSS THE CHART TO DETERMINE THE NEXT MATH COURSE YOU SHOULD SCHEDULE.

WCSD Mathematics Sequencing							
Math 6	Math 7	Pre-Algebra 8	Algebra IA	Algebra IB	Geometry	Consumer Mathematics (Pre-Requisite - 3 full mathematics credits)	
				Algebra II			
			Algebra I CP	Algebra II CP	Geometry CP	Pre-Calculus or Trigonometry or Statistics	
	Advanced Math 7	Pre-Algebra 8					
			Algebra 1-Honors	Algebra II Honors	Geometry Honors	Pre-Calculus Honors or Trigonometry or Statistics	Calculus Honors or AP Calculus or Trigonometry or Statistics

PLEASE NOTE: Three mathematics credits are required upon graduation. If a student chooses to only take three science credits related to graduation requirements, a fourth mathematics will be necessary to fulfill graduation requirements within the district. (Student will take 3 mathematics credits; 4 science credits OR 4 mathematics credits; 3 science credits)

MATH ELECTIVE CREDITS

- SAT Math – Grade 11 or 12 (pre-requisite Algebra II CP)

SCIENCE SEQUENCES – GRADES 9 - 12

- I. College Preparatory Sequence
 - A. Grade 9 Intro to Environmental Science College Preparatory*
 - B. Grade 10 Biology College Preparatory*
 - C. Grade 11 Chemistry College Preparatory*
 - D. Grade 12 Physics College Preparatory*

- II. College Preparatory Sequence w/ Honors (anticipate taking AP Biology, AP Chemistry, AP Physics I)
 - A. Grade 9 Intro to Environmental Science College Preparatory* and Biology College Preparatory*
 - B. Grade 10 Chemistry College Preparatory* and Advanced Biology
 - C. Grade 11 Physics College Preparatory* and/or AP Biology; AP Chemistry
 - D. Grade 12 AP Physics I*

- III. Career Sequence
 - A. Grade 9 Intro to Environmental Science
 - B. Grade 10 Biology
 - C. Grade 11 Chemistry
 - D. Grade 12 Physics

- IV. Relationship Between Science Required Courses

The expected sequence of required science courses is Environmental Science, Biology and Chemistry. Students electing to obtain their fourth science credit will need to view the various options listed above. Each science area is offered in the College Preparatory sequence in addition to the Career sequence. Each required course is one credit and one school year in length. Students may move between College Preparatory and Career sequences as they progress through grades 9-12. However, a student cannot receive a credit for both the College Preparatory and Career courses of the same science: example; a student may not receive credits for both Biology and Biology College Preparatory.

ADVANCED PLACEMENT COURSES

All Warren County School District AP courses are reviewed annually by The College Board, the governing agency for all AP courses. The College Board is expected to inform the district of its ability to offer each individual AP course by the beginning of summer. Students should sign up for the courses that they wish to take but should be aware that there is a possibility that one or more AP courses may not be permitted to be offered.

DUAL ENROLLMENT

The Warren County School District (WCSD) intends to offer opportunities for students to be involved in Dual Enrollment in the 2020-2021 school year. The Warren County School District has partnered with the University of Pittsburgh at Bradford, Jamestown Community College, Clarion University, Mercyhurst University, Northern Pennsylvania Regional College; Pennsylvania College of Technology, and St. Bonaventure University to offer college credits to area high school students through the Dual Enrollment Initiative. A Dual Enrollment program will provide an opportunity for qualified secondary school students, county-wide, to enroll in college level courses for both college credit and high school credit. Dual Enrollment opportunities vary by location and modality.

Courses will be offered through Saint Bonaventure University (SBU) at the Pine Grove Campus, the University of Pittsburgh at Bradford, Jamestown Community College, and Penn College will offer dual enrollment opportunities in a number of courses taught by Warren County School District staff throughout the District including the Warren County Career Center. Clarion University and Mercyhurst University offers courses online while Northern Pennsylvania Regional College offers courses that are taught by college professors in the evening hours at the Hi-Ed Council Building.

The SBU opportunities are listed on the following pages. The University of Pittsburgh at Bradford dual enrollment courses have not yet been finalized but should be available from your school's guidance office sometime in April 2022. Clarion University and Mercyhurst University online courses will be made available late spring 2022. Also, there are courses at the Warren County Career Center in which students may receive Dual Enrollment credit through Penn College.

Each dual enrollment program has an application process that includes specific enrollment requirements. More information regarding dual enrollment may be obtained from your student's principal or guidance counselor and on the Warren County School District website (www.wcsdpa.org) under the "FOR STUDENTS" DUAL ENROLLMENT TAB. Current offerings for the 2022-2023 school year are listed on the Dual Enrollment webpage and can provide an example of what will most likely be offered next school year.

SBU/ PINE GROVE CENTER DUAL ENROLLMENT COURSE DESCRIPTIONS 2022-2023
WCSD Pentamation Course Number and Name

Mathematics

00216 Pre-Calculus Math-Dual (MATH 108) - This course provides a detailed study of topics needed for success in calculus: algebra, trigonometry, analytic geometry, and functions. *Intended for students who need to take at least one semester of calculus for their major.* 3 Credits SBU Credits; 1 High School Math Credit. Fall.

00218 Calculus I-Dual (MATH 151) - The study of calculus of functions of one variable. The course covers rates of change, limits, the derivative, the definite integral, the Fundamental Theorem of Calculus, area and average value, and exponential growth and decay. All topics are treated with an emphasis on graphical interpretation. Prerequisite: high school algebra, trigonometry, and analytic geometry. 4 SBU Credits. Spring.

00220 Calculus II-Dual (MATH 152) - A continuation of Math 151 that includes methods of integration, numerical integration, applications of the definite integral, double integrals, Taylor polynomials and approximations, infinite sequences and series, and vectors in two dimensions. Prerequisite: MATH 151 or its equivalent. 4 SBU Credits; 1 High School Math Credit. Fall.

00277 Intro to Statistics-Dual (MATH 107) - This course is a non-calculus based study of statistics, including descriptive methods, basic probability theory, some design and data-collection issues, and procedures for statistical inference. Topics on statistical inference include confidence intervals and hypothesis testing for means and proportions along with chi-squared tests. Emphasis is on set-up and interpretation rather than on computation, with a significant reliance on computer software and /or statistical calculators for the “number crunching” portion of the analysis. 3 SBU Credits; 1 High School Math Credit. Spring.

English

00063 Public Speaking-Dual (ENG 230) - The basic principles of oral communication are stressed as the student delivers a minimum of seven speeches. The use of audio-cassettes and videotaping allows each student to concentrate upon individual needs. 3 SBU Credits; 1 High School Elective Credit. (Fall)

00081 Writing I-Dual (ENG 101) - A composition course emphasizing the development of a writing process, contextual awareness, and knowledge of conventions of academic and professional discourse. Course assignments foreground critical reading, writing, and argumentation skills, as well as style, and mechanics. This course is prerequisite for ENG 102). 3 SBU Credits; 1 High School ELA Credit (Fall)

00084 Writing II-Dual (ENG 102) - A further refinement of ENG 101, ENG 102 extends students’ abilities by directing them to special writing assignments (argumentation, research and aesthetic criticism). This is accompanied by an intensive examination of critical thinking itself. Once again, reading essays will serve as a foundation for students’ own work. 3 SBU Credits; 1 High School Elective Credit. (Spring)

00071 Popular Literature (ENG 213) - Analysis of several types of popular literature: the western, the mystery story, science fiction, sports literature, with a consideration of the relationship between popular literature and the literature of high culture. 3 SBU Credits; 1 High School ELA Credit (Spring)

Science

00318 Plants & Human Culture-Dual (BIO 110) - From foods, to medicines, to fibers, to building materials, plants serve a vital role in our lives. This course emphasizes how basic plant structure and function interfaces with human existence. Special attention is given to multi-cultural approaches to the use of plant material. Laboratory exercises are designed to highlight practical applications of botany. This course cannot be used to fulfill elective credit requirements for the biology major. Two hours lecture/one laboratory per week. 4 SBU Credits; 1 High School Science Credit. (Fall)

Languages

00408 French Elementary -Dual (FREN 101) - The fundamentals of French grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials. Prerequisite for 102 is 101, equivalent, or permission of instructor. Students do not need to have prior French courses to take French 101 3 SBU Credits; 1 High School Elective (Fall)

00409 French Elementary 2-Dual (FREN 102) - The fundamentals of French grammar and structure. Seeks to develop language proficiency through communicative methods and culturally oriented materials. Prerequisite for 102 is 101, equivalent, or permission of instructor. Students do not need to have prior French courses to take 3 SBU Credits; 1 High School Elective (Spring)

Social Sciences

00147 Law and Society-Dual (POLS 205) - Law is a common and yet distinct element of daily life in modern societies, simultaneously shaping and being shaped by society. The creation, interpretation, and enforcement of laws occur in the context of historical changes, societal norms, and the subjective concerns and whims of those charged with their creation. This course will explore, from an American and comparative perspective, the nature of law as a set of social systems, central actors in the systems, legal reasoning, and the relationship of the legal form and reasoning to social change. 3 SBU Credits; 1 High School Elective Credit (Spring)

00148 American Politics-Dual (POLS 102) - This course seeks to explain American politics as the interaction among political thought, economic, political, and social structures, and the struggle for human rights. Grounded in an understanding of the clash between economic elites and democratic forces during the Constitutional period, the course then traces this dynamic into the basic governmental structure, political parties and elections, media influence, and political struggle for human rights. Finally, the course explores the possibilities for change under the current political/economic/social structures. 3 SBU Credits; 1 High School Social Studies Credit (Fall)

00163 World History to 1450 (HIST 250) - This course is descriptive and analytical survey of world cultures from early river valley civilizations to 1450, with an emphasis on non-Western civilizations in Asia, Africa and the Middle East. Among the themes explored are the importance of land and water trade routes as conveyors of civilizations, the influence of nomadic peoples on the spread of ideas and technologies, the reshaping of local cultures as Buddhism and Islam spread to Asia and Africa, and the importance of urban centers such as Baghdad as intellectual and cosmopolitan capitals before the “rise” of the West. 3 SBU Credits; 1 High School Social Studies Credit (Fall)

00164 World History Since 1450 (HIST 251) - This course surveys world history since 1450 in order to provide with a historical context for understanding current world problems. Using an analytical and comparative approach, it examines the rise of Western global hegemony and how the non-West responded and is still responding. We will look at a wide range of topics and issues including nationalism, imperialism, decolonization, and globalization. What role has trade, technology, war and revolution played? How have national and regional interests in the Middle East, Asia and Africa resisted and/or competed with the advance of globalization? What geographic, economic, social, and cultural factors created today’s world? 3 SBU Credits; 1 High School Social Studies Credit (Spring)

00166 Introduction to Ethics (PHIL 104)

Ethics enquires into the fundamental perspectives and principles that bear on the evaluation of human conduct. It examines prominent theories about what constitutes a good life, articulates relevant principles of right action, poses basic questions about the nature of morality and engages with various moral problems that confront the individual and society. This course endeavors to acquaint students with traditions of moral inquiry and to equip them with key concepts 3 SBU Credits; 1 High School Elective Credit (Spring)

9500 INSTRUCTIONAL ARRANGEMENTS**POLICY 9530 MINIMUM CLASS SIZE POLICY – GRADES 6-12**

The Board recognizes that there is no single method of determining an ideal minimum class size at the middle school and high school levels. However, the balance between effective educational programs and the efficient use of our resources requires that the building staff review the scheduling of those classes where the average enrollment is fewer than 12. Exceptions to permit classes with fewer than 12 students shall be made through the action of the Board of School Directors at the time of staffing and personnel budgeting. Once the personnel budget is approved, any exceptions shall be the decision of the Superintendent and a final staffing report will be made available to the Board of School Directors.

Procedures and guidelines for such a review will be developed under the guidance of the Superintendent or his/her designee.

Procedure for Review

When deciding whether to schedule a class with fewer than 12 students, consider the following:

1. Is it needed to complete the state's requirements or the District's requirements for a diploma?
2. Is there certified staff time available within the building or within the District? Advanced placement courses are offered based on teacher availability within the building.
3. Have the students exhausted all offerings in the chosen academic/vocational sequence?
4. Can it be taught simultaneously with another course?
5. Is the course available elsewhere in the District and is it feasible for the student to take it there?

Adoption Date	-	September 13, 1999
Revision Date	-	April 10, 2006; February 9, 2015
Review Date	-	February 10, 2014
Legal Reference	-	IDEIA
	-	NCLB
	-	22 Pa. Code – Chapter 4
	-	24 Pa Code PS 11-1106
Cross Reference	-	

LANGUAGE ARTS

- 00006 Language Arts/ESL – Secondary** – This course is available to the English as a Second Language (ESL) student and will be the substitute for any secondary level language arts course.
Full Year – 1 credit **Grades 9-12**
- 00008 English 9** – Designed to prepare students for post-secondary career opportunities, this course provides instruction in the reading of fiction and nonfiction texts. Through active involvement in the course, students will utilize textual analysis to comprehend the connections between literature and real life. Students will write effectively and with a purpose appropriate to their audience, while understanding the essential types of writing – narrative, informative, and argumentative. Skills will be further expanded with students reading and responding to a wide variety of texts. Students will establish a proficiency of language conventions and mechanics. With a focus on career readiness, the class will aid students in developing a command of general, academic, and domain-specific vocabulary. Through various discussions and a required formal speech, students will be proficient public speakers. Using the Pennsylvania Common Core Standards and the Keystone Eligible Content as guides, the course will prepare students for the state standardized assessments.
Full Year – 1 credit **Grade 9**
- 00009* English 9 College Preparatory** – This course is intended for college bound students and is designed to prepare students for post-secondary education. The course provides instruction in the reading of fiction and nonfiction texts. Through active involvement in the course, students will utilize textual analysis to comprehend the connections between literature and real life. Students will write effectively and with a purpose appropriate to their audience, while understanding the essential types of writing – narrative, informative, and argumentative. Skills will be further expanded with students reading and responding to a wide variety of texts. Students will establish a proficiency of language conventions and mechanics. With a focus on post-secondary education, the class will aid students in developing a command of general, academic, and domain-specific vocabulary. Through various discussions and a required formal speech, students will be proficient public speakers. Using the Pennsylvania Common Core Standards and the Keystone Eligible Content as guides, the course will prepare students for the state standardized assessments.
Full Year – 1 credit **Grade 9**
- 00033* English 9 Honors - Prerequisites: Teacher recommendation** - This course is the first of a four-year program ending with Advanced Placement English Literature and Composition in grade 12 or a dual enrollment program. Based on world literature, the course takes a thematic approach to literature and will examine the philosophy and history of the times. Students choosing this course should be prepared to do extensive reading and writing. This course provides instruction in the analysis of literature with a focus on genres, universal themes, character development, and literary devices to give each student a foundation for critical reading in future academic courses. Students will write effectively and with a purpose appropriate to their audience, while incorporating the essential types of writing—analytical, reflective, informative, and argumentative. Composition skills will be further expanded with students reading and responding to a wide variety of texts. Students will establish a proficiency of language conventions and mechanics. Through various discussions and a required formal speech, students will be proficient public speakers. Using the Pennsylvania Common Core Standards and Keystone Eligible Content as guides, the course will prepare students for the state standardized assessments.
Full Year – 1 credit **Grade 9**
- 00011 English 10 – Prerequisites: Successful completion of a required English 9 course or principal recommendation** – Designed to prepare students for post-secondary career opportunities, this course provides instruction in the reading of fiction and nonfiction texts and continues to build upon skills acquired in English 9. through active involvement in the course, students will utilize textual analysis to comprehend the connections between literature and real-life. Students will write effectively and with a purpose appropriate to their audience, while incorporating distinct types of writing- informative, argumentative, and constructed responses. Students will establish a proficiency in language

conventions and mechanics. With a focus on career readiness, the class will aid students in developing a command of general, academic, and domain-specific vocabulary. Through various discussions and a required formal speech, students will be proficient public speakers. Using the Pennsylvania Common Core Standards and Keystone Eligible Content as guides, the course will prepare students for the state standardized assessments.

Full Year – 1 credit

Grade 10

00012* English 10 College Preparatory – Prerequisites: Successful completion of a required English 9 course – This course is intended for college bound students and is designed to prepare students for post-secondary education and continues to build upon skills acquired in College Preparatory English 9. This course provides instruction in the reading of fiction and nonfiction texts with a focus on genres, universal themes, character development, and literary devices to give each student a foundation for critical reading in future academic courses. Students will write effectively and with a purpose appropriate to their audience, while incorporating the essential types of writing—constructed responses, informative, argumentative, and critical analysis. Composition skills will be further expanded with students reading and responding to a wide variety of texts. Students will establish a proficiency of language conventions and mechanics. With a focus on post-secondary education readiness, the class will aid students in developing a command of general, academic, and domain-specific vocabulary. Through various discussions and a required formal speech, students will be proficient public speakers. Using the Pennsylvania Common Core Standards and Keystone Eligible Content as guides, the course will prepare students for state standardized assessments.

Full Year – 1 credit

Grade 10

00013* English 10 Honors – Prerequisites: Successful completion of a required English 9 Honors or CP and teacher recommendation – This course is the second of a four-year program ending with Advanced Placement English Literature and Composition in grade 12 or a dual enrollment program. Based on world literature, the course takes a thematic approach to literature and will examine the philosophy and history of the times. Students choosing this course should be prepared to do extensive reading and writing. This course provides instruction in the analysis of literature with a focus on genres, universal themes, character development, and literary devices to give each student a foundation for critical reading in future academic courses. Students will write effectively and with a purpose appropriate to their audience, while incorporating the essential types of writing—analytical, reflective, informative, and argumentative. Composition skills will be further expanded with students reading and responding to a wide variety of texts. Students will establish a mastery of language conventions and mechanics. Through various discussions and a required formal speech, students will be proficient public speakers. Using the Pennsylvania Common Core Standards and Keystone Eligible Content as guides, the course will prepare students for the state standardized assessments.

Full Year – 1 credit

Grade 10

00014 English 11 – Prerequisites: Successful completion of the required English 9 and English 10 courses – Designed to prepare students for post-secondary career opportunities, this course provides instruction in the reading of fiction and nonfiction texts and continues to build upon skills acquired in English 10. English 11 will explore the American heritage by reading a wide range of words in American literature. A thematic approach will establish experiences common to American life. Through active involvement in the course, students will utilize textual analysis to comprehend the connections between literature and life. Students will write effectively and with a purpose appropriate to their audience, while incorporating the essential types of writing. Students will establish a proficiency of language conventions and mechanics. With a focus on career readiness, the class will aid students in developing a command of general, academic, and domain-specific vocabulary. Through various discussions and a formal speech, students will be proficient public speakers. Using the Pennsylvania Core Standards as a guide, the course will prepare students for standardized assessments.

Full Year – 1 credit

Grade 11

00015* English 11 College Preparatory – Prerequisites: Successful completion of required English 9 and 10 courses – This course is designed to prepare students for post-secondary education and continues to build upon skills acquired in College Preparatory English 10. Students in this college-bound class will

examine major American themes as reflected in the reading of fiction and nonfiction texts with a focus on genres, universal themes, character development and literary devices to give each students a foundation for critical reading in future academic courses. Students will write effectively and with purpose appropriate to their audience while incorporating the essential types of writing. Composition skills will be further expanded with students reading and responding to a wide variety of texts. Basic research techniques will be introduced to students. Students will establish a proficiency of language conventions and mechanics. With a focus on post-secondary education readiness, the class will aid students in developing a command of general, academic, and domain-specific vocabulary. Through various discussions and a required formal speech, students will be proficient public speakers. Using Pennsylvania Common Core Standards as a guide, the course will prepare students for standardized assessments.

Full Year – 1 credit

Grade 11

00016* English 11 Honors – Prerequisites: Successful completion of a required Honors 10 English course; however, a student who successfully completes English 10 College Preparatory may enter the course with teacher recommendation – This course is the third level of a four-year program ending with Advanced Placement English Literature and Composition in grade 12 or a dual enrollment program. Based on American Literature, the course is a cross section of literature including letters, journals, novels, speeches, poetry and plays. This course provides instruction in the analysis of literature with a focus on genres, universal themes, character development and literary devices to give each student a foundation for critical reading in future academic courses. Students will write effectively and with a purpose appropriate to their audience while incorporating the essential types of writing—analytical, reflective, informative, and argumentative. Composition skills will be further expanded with students reading and responding to a wide variety of readings. Students will establish a mastery of language conventions and mechanics. Through various discussion and a required formal speech, students will be proficient public speakers. Students choosing this course should be advised that the reading load is extensive, and a research paper is required.

Full Year – 1 credit

Grade 11

00017 English 12 – Prerequisites: Successful completion of the required English 9, 10 and 11 courses – Designed to prepare students for post-secondary career opportunities, students will focus on language arts skills essential for job placement, as well as success beyond the classroom. Technical reading and writing, letter writing, resumes and practical language activities will be components of the class. Great themes and issues in literature will be examined to serve as a final arts and humanities experience. Students will establish a proficiency of language conventions and mechanics. With a focus on career readiness, the class will aid students in developing a command of general, academic, and domain-specific vocabulary. Through various discussions and a required formal speech, students will be proficient public speakers.

Full Year – 1 credit

Grade 12

00018* English 12 College Preparatory – Prerequisites: Successful completion of required English 9, 10 and 11 courses – This course is intended for college bound students and is designed to prepare students for post-secondary education and continues to build upon skills acquired in College Preparatory English 9, 10 and 11. This course provides instruction in the reading of fiction and nonfiction texts with a focus on genres, universal themes, character development and literary devices to build upon students' foundations for critical reading in future academic courses. Students will write effectively and with a purpose appropriate to their audience while incorporating the essential types of writing—narrative, informative and argumentative. Composition skills will be further expanded with students reading and responding to a wide variety of readings using academic analysis as well as writing a research paper. Students will establish a proficiency of language conventions and mechanics. With a focus on post-secondary education readiness, the class will aid students in developing a command of general, academic and domain-specific vocabulary. Through various discussion and a required formal speech, students will be proficient public speakers.

Full Year – 1 credit

Grade 12

00041* English 12 Honors – Prerequisites: Successful completion of a required Honors 11 English course; however, a student who successfully completes English 11 College Preparatory may enter the course with teacher recommendation – This course is the final level of a four-year program. This is an

honors level course with the possibility of earning college credits through a dual enrollment opportunity. With a focus on literary analysis and interpretations, this curriculum covers English and multi-cultural novels and poetry, along with a variety of plays primarily from the thirteenth to twenty-first century. Students should expect extensive reading and writing assignments which will require utilizing time outside of the classroom. It is recommended that students have completed Honors 9-11 as prerequisites to this course. The course will examine the ways in which meaning is created in both fiction and non-fiction texts and introduce students to the methods of literary interpretations. Students will articulate literary analyses in the form of writing, discussion, and formal presentations. Utilizing literary concepts, students will consider the interaction between the reader, the writer, and the text itself as they examine literature through a variety of lenses. Students will become active readers through annotation, critical analysis, thorough discussion, and reflection.

Full Year – 1 credit

Grade 12

00019* AP English Literature and Composition – Prerequisites: Successful completion of English 10 Honors and English 11 Honors recommended – This course is the final of a four-year program and follows the College Board’s suggested curriculum designed to parallel college-level English courses. This curriculum covers English and multi-cultural novels and poetry, along with a variety of plays primarily from the thirteenth to the twenty-first century. A topical/thematic as well as chronological approach, which emphasizes social, political and intellectual themes in an appropriate historical context, is essential. Students should expect extensive reading and writing assignments. This course is designed to prepare students to take the AP examination in May which may result in college credit. The completion of Honors 9, 10 and 11 are necessary prerequisites to this course in order to establish the correct basis for reading, writing and discussion. Because of the expectations for this level of achievement, exception to these prerequisites must be approved by the English department head and a panel of English teachers to ascertain the student’s knowledge of the concepts and skills required for the course.

Full Year – 1 credit

Grade 12

00040* Speech – This course is designed to prepare students to speak comfortably in public. Students will use research skills and deliver oral presentations.

Semester Course - .5 elective credit

Grades 9-12

00048 SAT Verbal focuses on three key aspects of the SAT: Reading Test, Writing and Language Test and the Essay. This will be done through development of a command of evidence, words in context, expression of ideas and standard English conventions. Focus will be on analysis of history, science, literature and U.S. and global documents.

Semester Course - .5 elective credit

Grades 10-12

00060* Journalism I - Prerequisites: Successful completion of grade 9 ELA curricula in order to ensure success in the writing element of journalism. This course is designed for both the student with journalism ambitions and also the student who simply wishes to improve his or her communication abilities and writing style. A school newspaper, published periodically, is an outgrowth of the class. Students taking this course are, as a result, members of the school newspaper staff. Time is spent studying the history of print, journalistic writing styles, and layout design, as well as the relationship journalism has with the world today.

Full Year – 1 elective credit

Grades 10-12

00061 Journalism II – Prerequisites: Successful completion of Journalism I with a grade of 70% or higher – This course is designed for the student with journalism ambitions and an interest in exploring broadcast journalism concentrating on television and radio production. Time is spent studying the history of broadcast journalism, terminology, script writing for news broadcasts, equipment knowledge and operation, voiceovers and graphics, broadcast journalism careers, and production of quality video and radio news broadcasts. A school newspaper, published periodically, is an outgrowth of the class. Students taking this course are, as a result, members of the school newspaper staff and broadcast news team.

Full Year – 1 elective credit

Grades 11-12

00062 Journalism III– Prerequisites: Successful completion of Journalism I and II with a grade of 70% or higher. It is also recommended that students who take Journalism courses have been successful

in their language arts courses (to ensure success in the writing element of journalism.) This course is designed to continue developing and build upon the journalism writing and broadcast video/radio production skills introduced in Journalism I and II. The students will continue to work with desktop publishing software for organizing, layout, and publishing the school newspaper. Video and audio editing software will be used to produce broadcast news. A school newspaper, published periodically, is an outgrowth of the class. Students taking this course are, as a result, members of the school newspaper staff and broadcast news team.

Full Year – 1 elective credit

Grades 11-12

00090* Mythology is an elective class. The course is a general survey of Greek and Roman Mythology, as well as other important myths from cultures around the world. This class will enhance the student's classroom experience by explaining myths that are alluded to in English and other College Preparatory classes, as well as comparing and contrasting myths from cultures around the world to illustrate how they are similar to and different from one another in regard to mythologies. Students will also study vocabulary derived from Greek and Roman etymologies.

Semester Course – .5 elective credit

Grades 9-12

00094 Reading Unlimited – The goal of this course is to enrich a student's reading experience. A student's selected reading will be subject to teacher approval.

Semester Course –.5 elective credit

Grades 9-12

00095 Reading Unlimited II – Prerequisites: Successful completion of Reading Unlimited I with a passing grade. The goal of this course is to enrich a student's reading experience. Student's selected reading will be subject to teacher approval.

Semester Course – .5 elective credit

Grades 9-12

SOCIAL STUDIES

00110 United States History I will cover the period from Exploration through the post-Civil War eras of Reconstruction and the Gilded Age. The course will examine how the United States faced the problems of settling new lands and forming a new government. Students will also look at the problems preserving the Union and resolving the issue of slavery. There will be an emphasis on how the government was formed and the challenges of a young nation. This course will include an overview of the social, economic, cultural, and historical developments and how these forces affected the politics of the times.

Full year – 1 credit

Grade 9

00111* United States History I College Preparatory will cover the period from Exploration through the post-Civil War eras of Reconstruction and the Gilded Age. The course will examine how the United States faced the problems of settling new lands and forming a new government. Students will also look at the problems preserving the Union and resolving the issue of slavery. There will be an emphasis on how the government was formed and the challenges of a young nation. This course will include an overview of the social, economic, cultural, and historical developments and how these forces affected the politics of the times. College Preparatory (CP) U.S. History I differs from U.S. History I in that greater emphasis is placed on the skills required for success at the college level. Thus CP students will do more supplemental readings (especially primary source documents) as well as more writing assignments and research. It is recommended that students take this course only if they attained a final average of at least 80 percent in Civics.

Full Year- 1 credit

Grade 9

00116 Economics - This course is designed to provide students with the background needed to help perform their economic roles more intelligently as they become consumers, producers, and decision-makers. This course emphasizes fundamentals, macroeconomics, and international economics. The organization and instruction of the course is geared toward those students looking to pursue post-secondary education and also for those who are interested in a more comprehensive study of Economics. A final exam is required.

Semester Course- .5 credit

Grade 12

00117 American Government is designed to provide students the background they need to participate meaningfully in our democratic system. Students will examine the workings of all three levels of American Government: federal, state, local, and how citizens get involved at each level. Units to be studied include the basic foundations of government (including the U.S. Constitution); choosing government leaders; the separation of powers in government; and intergovernmental relations. Part of the course is to help students to become active participants in our democratic system and how government will affect them the rest of their lives. A variety of activities and media will be used to achieve the course objectives. There is a final exam.

Semester Course – .5 credit

Grade 12

00118* Psychology - is a broad and diverse field that studies the connections between the mind and behavior by seeking to provide answers to questions such as: why do people behave the way they do? What makes people happy or unhappy? What are the relationships between the mind and the brain? Student will investigate topics related to Learning and Memory, Sensation and Perception, Emotion and Motivation, Development and Disorders, Treatment of Disorders, and Careers in Psychology.

Semester Course- .5 elective credit

Grade 10-12

00119* Sociology - is the study of social life, social change, and the social causes and consequences of human behavior. Life is social and most human behavior involves social interaction, therefore the subject matter of sociology ranges from the intimate family to the internet, from organized crime to religious traditions, and from the division of race, gender, and social class to the shared beliefs of a common culture. This course will serve as an introduction to the basic concepts, theories, processes, and institutions which are the subject matter of sociology as an academic discipline.

Semester Course- .5 elective credit

Grades 10-12

00120* United States Military History - will trace the development of America's Armed forces during the 20th century from World War I through the War on Terror. Students will examine the causes and impacts of the wars the US has participated in, as well as investigate the technology and strategies implemented during the 20th century by analyzing the economic, social, political, and institutional aspects of each of the major campaigns

Semester Course – .5 elective credit

Grades 10-12

00126 United States History II covers the period of American history from the era of industrialization starting in the late 1800s to the conclusion of WWII. Major themes of the course include the United States emerging as a world power and the American government adapting to meet the challenges of the 20th century. The course will include an overview of the social, economic, cultural, technological and historical developments. Upon completion of the course, students will be able to demonstrate knowledge and understanding of the people and the forces that have shaped the modern United States. A final exam is required.

Full Year – 1 credit

Grade 10

00127* United States History II CP covers the period of American history from the era of industrialization starting in the late 1800s to the conclusion of WWII. Major themes of the course include the United States emerging as a world power and the American government adapting to meet the challenges of the 20th century. The course will include an overview of the social, economic, cultural, technological and historical developments. Upon completion of the course, students will be able to demonstrate knowledge and understanding of the people and the forces that have shaped the modern United States. College Preparatory (CP) U.S. History II differs from U.S. History II in that greater emphasis is placed on the skills required for success at the college level. Thus CP students will do more supplemental readings (especially primary source documents) as well as more writing assignments and research. It is recommended that students take this course only if they attained either a final average of 75 percent or higher in CP U.S. History I or at least 80 percent in U.S. History I. A final exam is required.

Full Year – 1 credit

Grade10

00150* AP United States History – Prerequisites: Successful completion of US History I College Preparatory with a recommended final average of at least 80% – This is a college-level course covering the gamut of American history, from discovery and exploration to the present day. As with all AP courses, the course offers students the opportunity to earn potential college credits. The AP U.S. History course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship. AP U.S. History thus develops the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.

(This course may be taken in place of the required 10th grade social studies course.)

Full Year – 1 credit

Grades 10-12 (elective in grade 11-12)

00151* AP American Government and Politics is an intensive study of the formal and informal structures of government and the processes of the American political system, with an emphasis on the history that has shaped how our government works. This course is not only intended to prepare students to take the AP exam, but to give a well-rounded insight into how American government affects our lives today. It is recommended that students who take this course have achieved a final average of at least 85 percent in their US History I CP course. It is strongly recommended students take AP U.S. History and AP European History prior to this course.

(This course may be taken in place of the required 12th grade social studies course.)

Full Year- 1 credit

Grade 12

00152* AP European History covers the period of the late Middle Ages to the Present Day. This course will include an overview of the social, political, religious, intellectual, technological, and economic developments of Europe. Students will study the major events, key concepts, and important people in European History. Students will demonstrate an understanding of cause and effect, make historical generalizations, use maps, charts, and other data, develop hypotheses and evaluate primary historical documents. This course is writing intensive.

(This course may be taken in place of the required 11th grade social studies course.)

Full Year – 1 credit

Grades 11-12 (elective in grade 12)

00155* Economics College Preparatory is designed to provide students with the background needed to help perform their economic roles more intelligently as they become consumers, producers, and decision-makers. This course emphasizes fundamentals, macroeconomics, and international economics. The organization and instruction of the course is geared toward those students looking to pursue post-secondary education and also for those who are interested in a more comprehensive study of Economics.

Semester Course – .5 credit

Grade 12

00156* American Government College Prep is designed to provide students the background they need to participate meaningfully in our democratic system. Students will examine the workings of all three levels of American Government – federal, state, and local – and how citizens get involved at each level. Units to be studied include the basic foundations of government (including the U.S. Constitution), choosing government leaders, the separation of powers in government, and intergovernmental relations. Part of the course is to help students to become active participants in our democratic system and how government will affect them the rest of their lives. A variety of activities and media will be used to achieve the course objectives. College Preparatory (CP) American Government differs from American Government in that greater emphasis is placed on the skills required for success at the college level. Thus CP students will do more supplemental readings (especially primary source documents) as well as more writing assignments and research. A final exam is required.

Semester Course-.5 credit

Grade 12

00167 Street Law: Street Law is a semester long social studies elective that serves as an introductory course to law and legal systems in the United States. Units will include: Introduction to Law; Constitutional Law; Criminal Law; and the Criminal Justice Process Civil Law (Torts, Contracts and Family Law). Students will touch on broad and specific legal topics to give them a better understanding of law and how it affects real life. Students will use case studies, individual research, group discussion/debate, guest speakers and mock trials throughout the course.

Semester Course- .5 elective credit

Grades 10-12

00176* Contemporary Domestic Issues is designed to explore the major issues in American society today. The course will be built around debates, research projects, small and large group discussions that are designed to make students actively think about the issues in society. Students will confront alternative points of view on a broad spectrum of issues and will be encouraged to debate these issues and form their own opinions. Students taking this course must keep up with current events through the use of magazines, newscasts, radio news, newspapers, and the Internet. This course is intended to provide students will a core of knowledge and skills in their use of media to gain information and to relate that information to help them make informed decisions on aspects of American society. Likely topics include, but are not limited to: poverty/wealth gap, abuse issues (drug, alcohol, domestic), race relations, immigration, human rights, and environmental issues.

Semester Course- .5 elective credits

Grades 10-12

00177* Contemporary Global Issues is designed to explore the dynamics of contemporary global issues/interactions among nations and regions. This course investigates a variety of global issues, historical context, multiple perspectives of those involved, and the current political, economic, and social implications. The course is built around debates, research projects, small and large group discussions that are designed to make students actively think about world issues and the impact on the United States. Students will confront alternative points of view on a broad spectrum of issues, be encouraged to debate these issues, form their own opinions regarding possible solutions to each issue, and investigate why each issue is an ongoing problem. Students taking this course must keep up with current events through the use of magazines, newscasts, radio news, newspapers, and the Internet. Likely topics include, but are not limited to: Terrorism, geopolitics, first world versus developing nations, globalization, and human rights.

Semester Course- .5 elective credit

Grades 10-12

00191 Modern World History (Enlightenment to Present Day)

World History covers the history of the world from 1600 AD to the present. The course will cover the emergence of the western world from the Enlightenment to the modern era. The course will examine the Enlightenment, Colonization, and the Industrial Revolution through the struggle of Empires and World Wars, and modern war on terrorism. Emphasis will be on the interconnectedness of the various cultures of the modern world.

Full Year – 1 credit

Grade 11

***00192 Modern World History CP (Enlightenment to Present Day)**

World History covers the history of the world from 1600 AD to the present. The course will cover the emergence of the western world from the Enlightenment to the modern era. The course will examine the Enlightenment, Colonization, and the Industrial Revolution through the struggle of Empires and World Wars, and modern war on terrorism. Emphasis will be on the interconnectedness of the various cultures of the modern world.

College Preparatory (CP) Modern World History differs from Modern World History in that greater emphasis is placed on the skills required for success at the college level. Thus CP students will do more supplemental readings (especially primary source documents) as well as more writing assignments and research. **It is recommended that students take this course only if they attained either a final average of 75 percent or higher in CP U.S. History II or at least 80 percent in U.S. History II.**

Full Year – 1 credit

Grade 11

- 00206 Algebra Concepts** - builds upon computational, problem solving, graphing, and algebraic concepts previously learned in mathematics. Algebra Concepts provides learning experiences required for Algebra I such as linear equations, functions, graphing, geometry, systems of equations and bivariate data. It will provide students with problem-solving, reasoning skills and mathematical concepts necessary to be successful learners in future mathematics courses. Teacher recommendation is required to enroll in the class.
Full Year – 1 credit **Grade 9**
- 00212 Geometry** - starts with basic concepts related to geometry including but not limited to points, lines, and planes. The course builds on those basic concepts to include parallel and perpendicular lines, polygons, various triangles, transformations, and the study of spheres and solids. Algebraic skills are incorporated with practical applications to concrete problems. Recommended grade average of 60% in both Algebra IA and Algebra IB or completion of both Algebra I CP and Algebra II CP with an average in each between 60% and 70%.
Full Year – 1 credit **Grades 10-12**
- 00213 Consumer Mathematics** is an elective math course designed to cover skills that students need to manage their personal finances as related to everyday life. Students will learn fundamental money management skills, including calculating gross income, paying taxes, record keeping, establishing savings accounts, handling credit, making mortgage payments, investing, and more. All seniors are encouraged to take this course.
Full Year – 1 elective credit **Grade 12**
- 00221* Algebra I College Preparatory** provides an in-depth look at the foundation of algebraic theory that will be expanded in Algebra II College Preparatory, and Geometry College Preparatory and additional advanced mathematics courses (3 credits in high school are required). It uses practical problems to apply theory and connect algebra to the real world. Algebra I College Preparatory is intended for students planning on pursuing higher education, particularly those whose primary interests are in the fields that require strong background in math or science. A final exam is required. Recommended grade of 75% in Pre-Algebra in order to take this course. **Keystone Exams are required of all students who take an Algebra 1 course, for graduation. If this state-mandated test is not passed, remediation will be required, and students will retake the exam. The Keystone Exam is a requirement for graduation.** (Please Note: Changes in legislation will alter this graduation requirement pathway.)
Full Year – 1 credit **Grade 9**
- 00225 Algebra IA** is the first of the two year Algebra course; in the sequence Algebra IA, Algebra IB, and Geometry. In order to take this course, a student must have completed Pre-Algebra 8 **but did not earn greater than 75%**. This course includes a study of numbers and operations, algebraic concepts, and data analysis and probability. A final exam is required.
Full Year – 1 credit **Grades 9-10**
- 00226 Algebra IB** is the second of the two year Algebra course; continuing the sequence Algebra IA, Algebra IB, and Geometry. In order to take this course, a student must have passed Algebra IA with at least a 60%. This course continues the study of numbers and operations, measurement, algebraic concepts, and data analysis and probability. A final exam is required. **This course is designed for the student who has passed Algebra IA with at least a 60%. Keystone Exams are required of all students who take an Algebra 1 course, for graduation. If this state-mandated test is not passed, remediation will be required, and students will retake the exam. The Keystone Exam is a requirement for graduation.** (Please Note: Changes in legislation will alter this graduation requirement pathway.)
Full Year – 1 credit **Grades 10-11**
- 00239 Algebra II** is the continuation of Algebra concepts that are an integral part of secondary mathematics courses. This course expands on the foundation of algebraic theory that was begun in Algebra I at a slower pace. It uses practical problems to connect algebra to the real world and apply the theory introduced in Algebra I, going from linear equations and inequalities to complex numbers. It includes the

study and applications of quadratics including parabolas. **This course is limited to teacher recommendation.** A final exam is required.

Full Year – 1 credit

Grades 10-12

00240* Algebra II College Preparatory – Prerequisite: Successful completion of Algebra I College Preparatory with a 75% or higher or recommendation by the Algebra I teacher – This course is one of three courses in the Academic sequence. Algebra concepts are an integral part of secondary mathematics courses. This course expands on the foundation of algebraic theory that was begun in Algebra I. It uses practical problems to connect algebra to the real world and apply the theory introduced in Algebra I, going from linear equations and inequalities to complex numbers. It includes the study and applications of quadratics including parabolas. This course is intended for students planning on pursuing higher education, particularly those whose primary interests are in fields that require a strong background in math or science.

Full Year – 1 credit

Grades 9-12

00241* Algebra II Honors is the second course in the Honors Mathematics sequence designed for those students able to complete calculus prior to entering college. Changes in our society and technology require a strong background in basic algebra skills. This course expands upon the intense study of algebraic theory that was started in Honors Algebra I and will continue in Honors Geometry and additional advanced math courses. This course provides further use of practical problems to apply the theory and connect algebra to the real world. Honors Algebra II is intended for college-bound students who have an aptitude or interest in mathematics. It provides them with the opportunity to complete an additional year of advanced mathematics. Recommended grade of 75% or higher earned in Honors Algebra I Grade 8 and passed the Algebra 1 Keystone Exam with a Proficient or Advanced score. A final exam is required.

Full Year – 1 credit

Grades 9

00250* Geometry College Preparatory - Prerequisites: Recommended grade of 75% or higher in Algebra II College Preparatory or Algebra II Honors - This is an academic course designed to provide an opportunity for students to reason mathematically. Throughout this class, students will learn about geometric shapes and structures and how to analyze their characteristics and relationships in order to solve problems. Study of two- and three-dimensional objects and their properties and measurements is the foundation of this course. Students will use these skills in representing and solving problems in other areas of mathematics and real-world situations.

Full Year – 1 credit

Grades 10-12

00251* Geometry Honors - Prerequisites: Recommended grade of 80% or higher in Algebra II or 80% or higher in Algebra II Honors - This is an academic course designed for the accelerated mathematics student planning on pursuing higher education; particularly those individuals whose primary interests are in mathematics. This course helps students recognize how algebra and geometry complement each other. The contents of this course range from the basic elements of geometry to the areas and volumes of solids. It is recommended for students planning on taking Calculus or AP Calculus before graduating from high school.

Full Year – 1 credit

Grades 10

00270* Pre-Calculus CP – Prerequisites: Recommended grade average of 75% or higher in Algebra I CP, Algebra II CP, and Geometry CP – This is an academic course designed to solidify the fundamental concepts of high school algebra and geometry. Major topics include solving and graphing linear and quadratic equations, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, and trigonometric functions and identities. Optional topics may include conic sections, matrices, and sequences and series. Final exam is required.

Full Year – 1 credit

Grades 11-12

00271* Pre-Calculus Honors - Prerequisites: Recommended grade average of 80% or higher in Algebra II Honors, and Geometry Honors - Pre-Calculus Honors is an academic course designed primarily for students who plan to enter college and pursue a program of studies in mathematics or a mathematically related field such as engineering, accounting, or pre-medicine. We will study functions and graphs (linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric), analytic trigonometry, and analytic geometry. It is strongly recommended that students planning to enroll in Calculus are first exposed to the rigors of Pre-Calculus. After successful completion of this course, it is recommended that students take Calculus or Advanced Placement Calculus.

Full Year – 1 credit

Grades 11-12

00275* Trigonometry - Prerequisites: Recommended grade of at least 75% in Algebra I CP, Algebra II CP, and Geometry CP Trigonometry is a specialist branch of geometry that deals with the study of triangles. In trigonometry, mathematicians study the relationships between the sides and angles of triangles. Right triangles, which are triangles with one angle of 90 degrees, are a key area of study in this area of mathematics. The content of this course includes functions and graphs, the Pythagorean Theorem, all six trig functions and their graphs, the study of trig identities, the Law of Sine's and the Law of Cosines applied to triangles, inverse functions and equations, polar coordinates with graphs and a review of Algebra II. Applications of this branch of mathematics and algebra in real life are many and varied. This course is recommended for students interested in pursuing careers in engineering, surveying, astronomy, architecture, and aeronautical studies. A final exam is required for this course.

Full Year – 1 credit

Grades 11-12

00282* Statistics - is an introductory statistics course and covers methods of summarizing data, descriptive statistics, probability and probability distributions, sampling distributions, the central limit theorem, hypothesis testing, analysis of variance, and regression analysis.

Full Year – 1 credit

Grades 11-12

00291* Calculus Honors is designed for students who are interested in a course which furthers their fundamental knowledge of calculus. It is designed to introduce and develop fundamental functional behavior of the following topics: differentiation, integration, infinite series, three-dimensional space, vectors, conic sections, polar coordinates, and parametric equations. **Completion of Pre-Calculus Honors or Pre-Calculus with an average of 80% is recommended.**

Full Year – 1 credit

Grades 11-12

00292* AP Calculus AB – Prerequisite: Completion of Pre-Calculus Honors or Pre-Calculus with an average of 80% or above is recommended. – This course is designed for the student who is interested in a course which furthers his/her fundamental knowledge of calculus. It is designed to introduce and develop fundamental functional behavior of the following topics: differentiation, integration, infinite series, three-dimensional space, vectors, conic sections, polar coordinates, and parametric equations.

Full Year – 1 credit

Grades 11-12

00295 SAT Math is a math elective credit. It is designed to give students practice in types of Algebra, Geometry, Data Analysis, and Problem Solving problems that would be found on the Scholastic Aptitude Test (SAT). Test taking strategies and problem solving skills will be emphasized. Use of scientific calculators will be developed. It is expected that students will have developed a knowledge base in mathematics before taking this course. Final Exam Required.

Semester Course – .5 elective credit

Grades 10-12

SCIENCE

- 00308 Introduction to Environmental Science** focuses on the principles of ecology and the interdependence of natural and human systems. Students will develop skills in making informed decisions and taking constructive actions. Relevant lab activities will be incorporated throughout, utilizing scientific inquiry and appropriate technology. Final assessment required.
Full Year – 1 credit **Grade 9**
- 00309* Introduction to Environmental Science College Preparatory** focuses on the principles of ecology and the interdependence of natural and human systems. Students will develop skills in making informed decisions and taking constructive actions. Relevant lab activities will be incorporated throughout, utilizing scientific inquiry and appropriate technology. This course will involve writing, detailed content and lab analysis. Final assessment required.
Full Year – 1 credit **Grade 9**
- 00310* Biology College Preparatory** is recommended for tenth grade students who have successfully completed Introduction to Earth Science and Environmental Science or those accelerated ninth grade students who are also enrolled in the ninth grade required science courses. The course focuses on the study of biochemistry, cells, genetics, evolution and biological diversity. The course involves additional writing, detailed content and in depth lab analysis. Appropriate lab activities will be used including elements of scientific inquiry, concepts of models and the use of technological devices. All areas of study will focus on meeting the requirements of the PA Standards.
Full Year – 1 credit **Grade 10**
- 00311 Biology** is recommended for 10th grade students who have successfully completed Introduction to Earth and Environmental Sciences in their ninth grade year. The course focuses on the study of biochemistry, cells, genetics, evolution and biological diversity. Appropriate lab activities will be used including elements of scientific inquiry, concepts of models and the use of technological devices.
Full Year – 1 credit **Grade 10**
- 00313* Anatomy** – Prerequisites: Successful completion of Biology – Anatomy is a full year elective course concerned with the structure and function of the human body and concentrates on a detailed study of the anatomy of the muscular, circulatory, digestive, respiratory, excretory, integumentary, endocrine, nervous and reproductive systems. The anatomy of other vertebrates will be considered. The course includes lab work and considerable reading. Final assessment required.
Full Year – 1 elective credit **Grades 10-12**
- 00315* Entomology** is a one semester elective course open to all students, grades 9 through 12. The course will explore the fascinating world of insects. Topics covered include: insect origins, external and internal anatomy and physiology of insects, insect behavior, insect classification and how insects impact human life and ecosystems. Students will create an insect collection, classifying insects to the family level.
Semester Course – .5 elective credit **Grades 9-12** **FALL SEMESTER ONLY**
- 00316* AP Biology** – Prerequisites: Successful completion of Academic Biology, Advanced Biology, or Academic Chemistry or permission of the principal. –The College Board’s Advanced Placement (AP) program provides capable and motivated students with an opportunity to pursue college level biological studies with still in secondary school. This course is a college level laboratory program that enables students to receive college credit by passing a test with appropriate scores in May of the school year.
Full Year – 1 credit **Grades 11-12**

- 00317* Advanced Biology Honors – Prerequisites: Proficient or Advanced score on Biology Keystone Exam.**– Advanced Biology is an honors course offered to students who have successfully completed Biology College Preparatory. It is highly recommended to students who desire to attend college and/or pursue a career in a biological related field. The main approach to the course is at the molecular level with an emphasis on ecology, systematics, and surveys the viruses and major phyla of living things. The course involves varied types of instruction including in depth lab analysis with the use of technological devices.
Full Year – 1 credit **Grades 10-12**
- 00320 Introduction to Earth Science** is a one semester elective course open to all students, grades 9 through 12. The course focuses on the study of rocks and minerals, the theory of plate tectonics, climate, meteorology and astronomy. Relevant lab activities will be incorporated throughout, utilizing scientific inquiry and appropriate technology. Final assessment required.
Semester Course – .5 elective credit **Grade 9-12**
- 00330 Chemistry** - The science of chemistry deals with the structure of matter, its properties and the changes it undergoes. Living by Chemistry applies these concepts to real world problem solving. This course utilizes basic mathematical skills and includes hands on activities and laboratory applications. Final Assessment required.
Full Year – 1 credit **Grade 11**
- 00331* Chemistry College Prep - Prerequisite – successful completion of Algebra I CP or Algebra I B –**
 The science of chemistry deals with the structure of matter, its properties and the changes it undergoes. Chemistry College Preparatory describes matter using both words and numbers. Students will be required to utilize higher math skills frequently. Current enrollment in or completion of Algebra II College Preparatory is strongly recommended for success in CP Chemistry. This course will meet 6 class periods per week with one of those periods designated for laboratory exploration. Final Assessment Required.
Full Year – 1 credit **Grade 11**
- 00334* Advanced Organic Chemistry Honors – Prerequisites: Completion of Chemistry College Preparatory with an 80% average or higher or permission of the principal** – This honors course deals with concepts of molecular structure, atomic and intermolecular bonding and the resulting properties of organic compounds. An emphasis is placed on the recognition and classification of major functional groups and the nomenclature and structure of organic molecules. Additional concepts include chemical and physical properties as a function of molecular mass, structural arrangement and intermolecular forces, isomers, reactions, reaction mechanisms, and synthesis/preparation of organic compounds. A final exam is required.
Semester Course – .5 elective credit **Grades 11-12**
- 00335* Advanced Inorganic Chemistry Honors – Prerequisites: Completion of Chemistry College Preparatory with an 80% average or higher and successful completion of Algebra II College Preparatory or permission of the principal.** – This honors course covers the topics of reactions, solutions, kinetics, and equilibrium at a more advanced level than Chemistry College Preparatory. This class meets five periods per week for one semester. Lab work will be done throughout the semester and there will be a final exam.
Semester Course – .5 elective credit **Grades 11-12**
- 00336* AP Chemistry – Prerequisites: Completion of Advanced Inorganic and Advanced Organic Chemistry or permission of the principal** – Advanced Placement Chemistry provides able and motivated students with the opportunity to pursue college-level chemistry studies while still in high school. This course is a college-level laboratory program that enables students to receive college credit by passing the Advanced Placement Examination with appropriate scores in May of the school year.
Full Year – 1 credit **Grade 12**

- 00350* Physics College Preparatory – Prerequisites: Algebra Based Math Course** -Physics College Preparatory, as a scientific discipline, is a study of the relationship between matter and energy. This course deals with the physical laws that describe the behavior of nature. Topics include force, motion, energy, momentum, wave mechanics, and electricity. An emphasis is placed on mathematical description of natural phenomena and on problem solving.
Final assessment required.
Special Requirement: One additional lab period per week.
Full Year – 1 credit **Grades 11-12**
- 00355 Physics – Prerequisites: Algebra-based math course** Physics, as a scientific discipline, is a study of the relationship between matter and energy. This course deals with the physical law that describe the behavior of nature. The topics include force, motion, energy, momentum, wave mechanics, and electricity. An emphasis is placed on a conceptual understanding of natural phenomena and on basic problem solving. Final assessment is required.
Full Year – 1 credit **Grades 12**
- 00356* AP Physics 1 – Prerequisites: appropriate algebra course work** - AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.
Full Year – 1 credit **Grades 11-12**
- 00365 Aquatic Ecology – Prerequisites: None** – This course will study the complex interactions within the aquatic ecosystem. An emphasis will be placed on the identification and classification of Pennsylvania aquatic species. The basic principles of Aquatic resource management and protection as well as aquatic resource are also discussed. Students will develop skills in making informed decisions and taking constructive actions. Relevant lab activities will be incorporated throughout, utilizing scientific inquiry and appropriate technology.
Fall Semester Only
Semester Course – .5 elective credit **Grades 9-12** **FALL SEMESTER ONLY**
- 00369 Wildlife Ecology – Prerequisites: None** This course introduces the student to wildlife biology, ecology and management. An emphasis will be placed on the identification and classification of PA wildlife species. The basic principles of wildlife ecology, conservation and issues involving wildlife, and society’s impact on wildlife are also discussed. Students will develop skills in making informed decisions and taking constructive actions. Relevant lab activities will be incorporated throughout, utilizing scientific inquiry and appropriate technology.
Semester Course – .5 elective credit **Grades 9-12** **SPRING SEMESTER ONLY**
- 00373 PA Habitat Ecology - Prerequisites: None** – This course focuses on Pennsylvania flora, their identification, taxonomy, anatomy, physiology, growth and reproduction. The basic principles of forest habitat, habitat management, and environmental protection are also discussed. Students will develop skills in making informed decisions and taking constructive actions. Relevant lab activities will be incorporated throughout, utilizing scientific inquiry and appropriate technology. Classroom studies are combined with field exercise.
Semester Course – .5 elective credit **Grades 9-12** **FALL SEMESTER ONLY**
- 00377* Plants and Animals – Prerequisites: Successful completion of Biology College Preparatory or Biology**
This one semester course introduces the student to botany, zoology, and classification. Emphasis will be placed on plant and animal classification, structure, and function. This class will be taught with a variety of instructional techniques which may include dissection.
Semester Course – .5 elective credit **Grades 10-12**

- 00379 Land Ecology - Prerequisites: None** – This course introduces students to the complexities of soil including its structure, land habitat use, and evaluation of land forms, soil characteristics, and conservation that impact habitat and society interactions. Students will develop skills in making informed decisions and taking constructive actions. Relevant lab activities will be incorporated throughout, utilizing scientific inquiry and appropriate technology.
Semester Course – .5 elective credit **Grades 9-12** **SPRING SEMESTER ONLY**

WORLD LANGUAGES

- 00431* Spanish I** is a beginning course designed to introduce to students the Spanish language and culture. Students are taught to grasp the practical control of the four language skills: understanding, speaking, reading and writing. Basic fundamentals of grammar are presented. Emphasis is placed on speaking and writing skills and cultural awareness. A final exam is required.
Full Year – 1 elective credit **Grades 9-12**
- 00432* Spanish II – Prerequisite: Successful completion of Spanish I** – The Spanish II course is a continuation of the skills learned in Spanish I. It is designed to expand the student's knowledge of vocabulary, culture and grammatical structures. Skills in reading, writing and speaking in the language are refined. A final exam is required.
Full Year – 1 elective credit **Grades 10-12**
- 00433* Spanish III – Prerequisite: Successful completion of Spanish II** – Spanish III reviews the student's knowledge of the language and develops solid communication skills. The course emphasizes the culture of the Spanish-speaking world through readings and conversations. Grammar learned in Spanish I and II will be reinforced and advanced grammatical structures will be introduced. A final exam is required.
Full Year – 1 elective credit **Grades 11-12**
- 00434* Spanish IV – Prerequisite: Successful completion of Spanish III** – Spanish IV reviews the student's knowledge of the language and challenges solid communication skills. The course emphasizes the culture of the Spanish-speaking world through short stories, novels, cinema, and conversations. Grammar learned in Spanish I through III will be reinforced and advanced grammatical structures will be developed and reinforced. A final exam is required
Full Year – 1 elective credit **Grade 12**

HEALTH / PHYSICAL EDUCATION

00615 Physical Education through Activity focuses on three basic areas as presented through WCSD athletic and marching band programs: 1) regular physical activity; 2) team sport concepts (cooperativeness, assuming responsibility); and 3) an awareness of the values and benefits of physical fitness in maintaining a healthy lifestyle.

.25 Credit

Grades 9-12

00622 Competitive Sports/Tournament Play will combine skills and strategies that will lead to a competitive team environment. Flag football, Team Hand-Ball, Volleyball, Floor Hockey, and Basketball are some of the activities offered in this class. Round Robin Tournament play will be featured throughout the semester. This is a physically demanding, highly competitive class and is recommended only for students who enjoy a high level of physical activity and also a variety of sporting interests. Content includes examining basic offensive and defensive strategies, proper sportsmanship, rules and fundamental skills needed to be successful.

Semester Course- .5 credit

Grades 9-12

00623 Adapted Physical Education - High School Adapted Physical Education provides students of any skill level with an opportunity to incorporate physical activity and lifelong leisure experiences into their lifestyle. Activities will include walking, weight lifting, and non-competitive team and recreational games. Skills and common concepts of each lifelong activity will be presented and developed through practice and participation.

Semester Course- .5 elective credit

Grades 9-12

00624 Recreational Activities for Life provides students with an opportunity to incorporate physical activity and lifelong leisure experiences into their lifestyle through game play and practice. Focus units include but are not limited to, Badminton, Kickball, Golf, Walking/Jogging, Volleyball and Tennis. Other team sports will be incorporated as non-competitive activities. Skills and common concepts of each lifelong activity will be presented and developed through practice and match play. Students of all skill and experience levels are encouraged to enroll in this course.

Semester Course- .5 credit

Grades 9-12

00626 Health 9 is a sequential continuation of the various aspects of health that provides a foundation for making educated health decisions consistent with Pennsylvania Health, Safety, and Physical Education standards. By becoming and remaining physically, mentally, socially, and emotionally healthy, students will favorably impact their lives and the lives of those around them. Health 9 will provide students with the knowledge and skills to achieve and maintain a physically active and healthful life.

Semester Course – .5 credit

Grade 9

00628 Walking for Personal Fitness is designed to provide an opportunity for students to develop a fitness workout plan through the activity of walking and other forms of aerobic exercise. Flexibility, cardiovascular endurance, muscular endurance, and muscle strength will be emphasized. The Walking for Personal Fitness course will help students develop a healthy lifestyle pattern by using walking and other forms of aerobic activity. This course is geared for the non-sports oriented student who wants to maintain or increase their overall fitness level.

Semester Course- .5 credit

Grades 9-12

00629 Strength & Weight Training class is designed to meet the needs of students who desire a physical education program in a less competitive environment. The students will participate in individualized activities designed to develop overall strength, explosiveness and speed. This course will also help develop and increase muscle definition, endurance, and cardio respiratory training. Students will receive knowledge in proper lifting technique, stretching and flexibility exercises as well as understand the correlation of lifts to the muscle groups to enhance athletic performance. The students will leave this class with a lifelong understanding of how to maintain adequate fitness for a healthy lifestyle.

Semester Course- .5 credit

Grades 9-12

00640 Outdoor Adventures Course is designed to change young people's lives forever by exposing them to the many great opportunities of the outdoors. The course focuses on environmental education, outdoor recreational activities, and outdoor survival skills to help students meet reasonable challenges in a variety of environments. Activities may include Orienteering and GPS, Survival Skills, Camping, Outdoor Cooking, and many other outdoor interests. This elective will provide students with the knowledge and skills to safely enjoy a lifetime of outdoor activities.

Semester Course- .5 elective credit

Grades 9-12

00641 First Aid/CPR/ & Care and Prevention of Athletic Injuries First Aid/CPR & Care/Prevention of Athletic Injuries course is an elective option based upon The American Red Cross Program. Students will analyze and apply strategies for the management of injuries in the home, school, sports and community. In addition, this course will emphasize the value of a safe environment and healthy lifestyle. Successful completion of the course provides students with the opportunity for certification in First Aid and CPR by the American Red Cross. Successful completion of Health 9 is required prior to enrolling in this course.

Prerequisite Health 9

Semester Course- .5 elective credit

Grades 10-12

COMPUTER/BUSINESS

00511 Accounting – Accounting I is designed to provide students with a working knowledge of basic accounting principles and practices as accepted by professional accountants and other financial management personnel. All accounting principles taught in this course follow the Generally Accepted Accounting Principles (GAAP) standards and rules which is under the authority of the Financial Accounting Standards Board (FASB) under the Securities and Exchange Commission (SEC). Students learn to use generally accepted accounting principles to complete the steps of the accounting cycle. Students also receive instruction in business ethics, business law, economics, office procedures and public relations. Students who plan on having a business career or having a career in any business setting would benefit from taking this introductory course.

Full Year - 1 elective credit

Grades 10-12

00555 Money 101 – Money 101 is a personal financial course. The knowledge and skills taught in this course will aide students in making good financial decisions now and in the future. This course covers the different types of income and how your career choices affect future income. Students will also cover topics related to work such as employee benefits and taxes. Student will learn about managing money, checking and creating a financial plan. Also covered are topics relating to spending and credit, savings and investing. This course is a good place to start understanding how to handle personal finance.

Full Year – 1 elective credit

Grades 10-12

00565 Word 101 – An in-depth course that covers how to use Microsoft Word to create professional-looking documents. This course is a good foundational course for any student because being able to use Microsoft Word is an essential skill in today's digital age. Whether one is a student in high school or college, or if in the workplace, the written communication form is vital to the educational experience or the professional work output. The quality of the final written form is highly important to the overall impression of the data or message being presented. Students will learn a multitude of skills, such as how to set up letters and reports, create brochures, tables, Works Cited pages, table of contents pages, and resumes.

Semester Course – .5 elective credit

Grades 10-12

01253 Computer Technology 9 is required of all ninth grade students in the Warren County School District. The purpose of this course is to help students acquire the skills necessary to become proficient with the

computer. This course will include topics in word processing, databases, spreadsheets, desktop publishing, presentations, and web pages.

Semester Course – .5 credit

Grade 9

(PLEASE NOTE: Students must take either Computer 9 or STEM 9 to fulfill graduation requirement.)

ART

Note: More advanced projects, if selected by the student, may require a fee to be paid by the parent/student.

00710 Art I is an elective for all students. Emphasis is put on introducing students to the fundamentals of art, including: art history, criticism, aesthetics, and production. Students will develop foundations to better understand how these concepts support the pursuit of further coursework in painting, drawing, printmaking, and mixed media.

Full Year – 1 elective credit

Grades 9-12

00711 Art II is an elective for students who have demonstrated competency in Art I. Emphasis is put on furthering the students' exploring various art media. Students further develop skills in painting, drawing, printmaking, and mixed media. Observational drawing and more advanced skills in different media will be introduced. Prerequisite: Art I

Full Year – 1 elective credit

Grades 10-12

00714 Art Skills Ceramics I – Emphasis is placed on introducing students to the basic fundamentals of 3-dimensional art and the use of clay. Students will gain knowledge of the essential processes involved with ceramics. Topics include: pinch pots, coil-building, slab construction, and throwing pieces on a potter's wheel.

Semester Course – .5 elective credit

Grades 9-12

00715 Art Skills Crafts – This course is designed for the student who enjoys the arts and finds fulfillment in exploring and manipulating media. Students will work on a variety of projects that may enhance their environment and lead to a worthy use of leisure time. Topics include: jewelry beads, jewelry braiding, glass etching, paper mache, and quilling.

Semester Course – .5 elective credit

Grades 9-12

00718 AP Art and Design is an elective course that enables skilled and motivated students to create college level work. The framework of the course provides student skills necessary for the creation of an AP 2-D Art and Design, AP 3-D Art and Design, or AP Drawing portfolio. Portfolios are focused on ideas, investigation, and processes, and they prepare students for advanced art and design learning. The course aligns with the College Board AP Art and Design curricular framework, as well as encouraging lifelong engagement with art and design.

Full Year – 1 elective credit

Grade 12

00719 Art Skills Fiber Arts – This course is designed for the student who enjoys the arts and finds fulfillment in exploring and manipulating media. Students will work on a variety of projects that may enhance their environment and lead to a worthy use of leisure time. Topics include: Weaving Techniques, Silk Screening, Batik, Tie-Dye, Fabric Painting, Paper Making, Yarn Painting.

Semester Course – .5 elective credit

Grades 9-12

00720 Art Skills Sculptures – This course is designed to introduce students to the subtractive and additive processes of creation of sculptural forms using a variety of materials and media. Through the

manipulation of tools and materials, students will broaden their skills, explore techniques, and increase their awareness of three-dimensional forms.

Semester Course – .5 elective credit Grades 9-12

00721 Art Skills Painting – This course is focused on painting skills. Student will gain experience with paint media of acrylic, watercolor, gouache, and oils. Topics include the preparation of materials, media choice, and painting techniques. Prerequisite: Art I

Semester Course – .5 elective credit Grades 11-12

00722 Art Skills Drawing – This course is focused on the skills involved in drawing. Students will gain experience with drawing media of graphite pencil and charcoal. Students will continue to build observational drawing skills, including portraiture, still life, and landscapes. Prerequisite: Art I

Semester Course – .5 elective credit Grades 11-12

00723 Art Skills Mixed Media – This course is focused on the development of both 2-D and 3-D mixed media skills. Students will gain experience with various mixed media, including: collage, paper, cardboard, and repurposed art. Prerequisite: Art I

Semester Course – .5 elective credit Grades 11-12

00724 Art Skills Printmaking – This course is focused on the development of print making skills. Students will gain experience with: monprint, reductive/block printing, screen printing, and various other printing techniques. Prerequisite: Art I

Semester Course – .5 elective credit Grades 11-12

00726 Independent Advanced Art Part I – This course is developed to allow advanced art students to develop skills in media of the students' choice. Students will have studio time to explore new media, portfolio development, and build upon areas of art interests and strengths. Prerequisite: Art Instructor Approval

Semester Course – .5 elective credit Grades 9-12

00727 Art Skills Ceramics II – This course is designed for students of further development of skills in pinch pots, coil-building, slab construction, and throwing pieces on a potter's wheel. Sculpture, mold-making, and production consistency will be introduced. Prerequisite: Art Skills Ceramics I

Semester Course – .5 elective credit Grades 9-12

00732 Independent Advanced Art Part II – This course is developed to allow advanced art students to develop skills in media of the students' choice. Students will further explore new media, portfolio development, and build upon areas of art interests and strengths. In addition, historical content will enhance the development of their media choices and art interest. Prerequisite: Independent Advanced Art Part I and Art Instructor Approval

Semester Course – .5 elective credit Grades 9-12

TECHNOLOGY EDUCATION

- 00749 Technological Design and Systems** is an elective foundation course in technology for all students in the ninth grade. This exciting, hands-on course provides an overview of the systems areas of bio-related information and physical technology. Students, working alone or in groups, will build a foundation for technological literacy by developing, producing, testing and assessing solutions to technological problems. Also, the impacts of technology will be analyzed. (Please Note: This is an elective course beginning with the Class of 2022. Classes 2019 through 2021 must pass this course to graduate).
Semester Course – .5 elective credit Grade 9-12
- 00750 Manufacturing Technology – Prerequisite: Technological Design and Systems** – This course provides a broad overview of manufacturing as it relates to technology education and industry. Students will study this system of technology in a broad spectrum of industries/agencies. Students will participate in various laboratory activities as they identify and analyze products, services and processes. They will work individually and in groups to design, test, analyze and evaluate manufacturing processes and products. They will explore marketing and graphic design as it relates to product packaging. Projects beyond course expectations may require a materials fee. Final is required.
Semester Course – .5 elective credit Grade 9 (2nd semester) Grades 10-12 (any semester)
- 00751 Design and Manufacturing Enterprise – Prerequisite: Technological Design and Systems** – This course is intended to allow students to participate in starting, running, and succeeding in a business endeavor. Students will choose the type of product that they will produce, decide how to produce it, and market it. This class can be integrated with a business course, and/or be used as a senior project. Students will have the opportunity to invest financially in their own enterprise. Any return after all expenses are paid will be contingent upon the success of the company. Final is required.
Semester Course – .5 elective credit Grades 10-12
- 00752* Engineering Design and Applications – Prerequisite: Technological Design and Systems** – In this course, students develop critical thinking and problem-solving skills. Engineering Design and Applications integrates the problem-solving method with knowledge of science, mathematics, communications and other disciplines. It provides students with opportunities to research, design, develop, build, test and evaluate solutions to real life problems related to meeting human needs and wants. Content is drawn from bio-related technology information, and physical technologies. Projects beyond course expectations may require a materials fee.
Semester Course – .5 elective credit Grades 10-12
- 00753 Innovation and Invention – Prerequisite: Technological Design and Systems** – This course helps students develop critical thinking and problem solving skills. Innovation & Invention integrates the technological problem solving method with knowledge of science, mathematics, communications and other disciplines. It provides students with opportunities to research, design, develop, build, test and evaluate solutions to real life problems related to meeting human needs and wants. Content is drawn from bio-related, physical and information technology, however each student or group will focus on those areas that match their goals. Emphasis is placed on documenting and presenting the research during various stages of the process. This capstone course may be used to satisfy a student’s senior project or community project. Projects beyond course expectations may require a materials fee. Final is required.
Semester Course – .5 elective credit Grades 11-12
- 00754 Innovation and Invention – Prerequisite: Technological Design and Systems** – This course helps students develop critical thinking and problem solving skills. Innovation & Invention integrates the technological problem solving method with knowledge of science, mathematics, communications and other disciplines. It provides students with opportunities to research, design, develop, build, test and evaluate solutions to real life problems related to meeting human needs and wants. Content is drawn from bio-related, physical and information technology, however each student or group will focus on those areas that match their goals. Emphasis is placed on documenting and presenting the research during various stages of the process. This capstone course may be used to satisfy a student’s senior project or community project. Projects beyond course expectations may require a materials fee. Final is required.
Full Year – 1 elective credit Grades 11-12

00759 Designs in Bio-Related Technology – Prerequisite: Technological Design and Systems – This is a course that provides a broad overview of bio-related technologies as they relate to technology education. Students will study these systems from historical, current and potential future applications of bio-related technologies in a broad spectrum of industries/agencies. Students will participate in various laboratory and research activities as they identify and analyze bio-related products, services and processes. They will work individually and in groups to design, test, analyze and evaluate bio-related processes and products. Projects beyond course expectations may require a materials fee. Final is required.

Semester Course – .5 elective credit

Grades 10-12

00760 Multi-Media Technology – Prerequisite: Technological Design and Systems – This is an introductory course using the universal systems model approach, including but not limited to the information technologies of encoding, transmitting, recording, storing, retrieving, and decoding. Students will apply problem-solving and creative thinking ability through activities and experiences which stimulate thinking and encourage ideation. Projects beyond course expectations may require a materials fee. **First Semester:** Students will apply different informational technologies. Communication and graphic communication skills will be explored extensively. Students will attain the knowledge and skills necessary to apply various aspects of communication technology within their projects. Projects may include: design of CD covers, design of calendars, desktop publishing, screen-printing, black and white photography, and a power point presentation. **Second Semester:** Using the knowledge and skills attained in the previous semester, students will apply various aspects of advanced desktop publishing and video and television production. Activities may include designing brochures or flyers using desktop publishing, digital photography, web-design, construction of a web page, and power point portfolio. Final is required.

Full Year – 1 elective credit

Grades 11-12

00767 STEM 9 - This basic/introductory STEM course is an interdisciplinary class that integrates the four specific disciplines of Science, Technology, Engineering and Math into a cohesive real-world learning model. Students will explore hands on and experience project based learning on real world problems guided by the Engineering Design Process. This program allows hands-on inquiry and open ended exploration in STEM content areas. Final is required.

Semester Course – .5 credit

Grade 9

(PLEASE NOTE: Students must take either Computer 9 or STEM 9 to fulfill graduation requirement.)

FAMILY AND CONSUMER SCIENCE

Note: More advanced projects, if selected by the student, may require a fee to be paid by the parent/student.

00761 Child Development is an elective course designed for grades 9-12. It is a course beneficial to anyone planning to become a parent in the future and those who plan a career working with children. The course will explore the importance of studying Child Development, the process of conception and the development of the child in the womb. Students will also extend their knowledge of the developing newborns, infants, toddlers, preschoolers and the responsibility of the family to encourage appropriate development. The course will require a final exam.

Semester Course -.5 elective credit Grades 9-12

00763 Nutrition and Wellness for the Family is an entry level elective course designed for grades 9-12. The course will explore Family types and structures, the role of family members, and the family life cycle. Students will investigate strategies for continuing lifetime wellness including, fitness, appropriate table manners, stress and time management, and decision making skill. Nutrition and Wellness for the Family will also investigate nutritional needs of the life cycle, planning nutritious and budget friendly meals, and adapting recipes to fit special nutritional needs. A final exam is required. It is recommended that no more than five students per kitchen be placed in the class to maintain a safe environment.

Semester Course -.5 elective credit Grades 9-12

00771 Baking Essentials is a class designed to give a broad overview of the essential process and techniques in baking. Students will spend one semester investigating the science behind baking, the skills needed to bake, and the processes necessary to complete a quality baked product. Kitchen safety and sanitation and uses of bakeware will also be addressed. Students will learn to create food products in the areas of cake and cookie baking and decorating, pie making, working with grains, yeast, and quick breads, and muffin methods. The course will require a final exam. It is recommended that no more than five students per kitchen be placed in the class to maintain a safe environment.

Semester Course - .5 elective credit Grades 11-12

00772 Sewing and Crafts is an elective course for grades 9-12. This course is a skill building class and may be taken once each year for .5 credits each time taken. This course is an introduction to a variety of craft like projects including, quilting, paper crafts, needle crafts, service oriented craft projects. Projects may use a combination of hand and machine sewing skills as well as other crafting techniques including, but not limited to, scrapbooking and knitting or crocheting. Students are responsible for project materials. It is recommended that no more than 20 students be placed in a class due to limited sewing machine access.

Semester Course - .5 elective credit Grades 9-12

00773 Fashion and Merchandising is an elective course for grades 9-12. This course is a skill building class and may be taken once each year for .5 credit each time taken. It will introduce students to the world of fashion, while they study the reasons behind wearing clothing, learn how to classify garments and fashion accessories. The students will be introduced and build upon basic clothing construction skills. The students utilize the elements and principles of design to render fashion sketches, operate a sewing machine, research purchase of and caring for garments and explore the world of fashion for job opportunities. A final examination is required. Students are responsible for all project materials and costs.

Semester Course- .5 elective credit Grades 9-12

00774 Foods Preparation and Techniques is an elective course for grades 10-12. The course will investigate the preparation and techniques in cooking including kitchen safety and sanitation techniques, knife skills, and uses of food cookery. Students will learn to create food products in the areas of grains, dairy, proteins, vegetables, and fruit. The students will learn garnishing and various cutting techniques. Students will also investigate international cuisine offerings and customs. The course will require a final

exam. It is recommended that no more than five students per kitchen be placed in the class to maintain a safe environment.

Semester Course - .5 elective credit

Grades 10-12

00776 Parenting is an elective course designed for grades 9-12. It is a course beneficial to anyone planning to become a parent, work with parents or families, and those who plan a career working with children. The course will explore the responsibilities of parenthood and successful parenting skills and techniques such as balancing nature and nurture, developing self-esteem, parental wellness, and discipline strategies at varying ages based on child development theorists discoveries. A final exam is required

Semester Course- .5 elective credit

Grades 9-12

00778 Consumer and Life Skills is an elective course for grades 9-12. This course is a contemporary consumer education program that covers all financial literacy basics. The course will emphasize personal and family finance, economics, and entrepreneurial literacy as it applies to everyday life situations. The student will learn personal decision-making skills regarding budgeting, purchasing, managing credit, career choices, loans, and insurance will be covered. A final examination is required. Students are responsible for all project materials and costs.

Semester Course- .5 elective credit

Grades 9-12

00780 Home and Interiors is an entry level elective course for grades 9-12 introducing students to the professional, technical, and esthetic aspects of the interior/exterior environment. Students study both residential/commercial architecture and interior/exterior design by combining studies in art, history, computers, and business. Challenging activities expose students to production of technical drawings, the latest technology in solving problems, traditional drafting methods, and presentation of plans. At least one design board project highlighting interior design or exterior housing trends will be completed. Students are responsible for providing all project materials needed. A final examination is required.

Semester Course- .5 elective credit

Grades 9-12

MUSIC

00829 Senior Band is a course in advanced instrumental music techniques. The course is open to students who have level-appropriate performance skills on a band instrument and have a desire to improve these skills both individually and in an ensemble setting. Senior Band will present at least two performances per year. All performances will be scheduled and placed in the school calendar. Concerts are mandatory and will be part of the course grade. Absence from these performances will be allowed at the director's discretion. The course places emphasis on personal improvement in instrumental music skills, and a performance schedule that provides opportunities for demonstration of the level of mastery achieved by the students.

Full Year – 1 elective credit

Grades 9-12

00834 Orchestra is a course in advanced instrumental music techniques that meets one period each day. The course is open to all students in grades 9-12 who have level appropriate performance skills on an instrument (string, brass, woodwind, or percussion) and have a desire to improve these skills both individually and in an ensemble setting. In smaller programs the 7th and 8th grade students will combine with the senior high school orchestra. Orchestra will present at least two performances per year. All performances will be scheduled and placed in the school calendar. Concerts are mandatory and will be part of the course grade. Absence from these performances will be allowed at the director's discretion. The course places emphasis on personal improvement in instrumental music skills, and a performance schedule that provides opportunities for demonstration of the level of mastery achieved by the students. A final exam is required.

Full Year – 1 elective credit

Grades 9-12

00840 Orchestra Advisory is a course in advanced instrumental music techniques that meets during advisory. The course is open to all students in grades 9-12 who have level appropriate performance skills on an instrument (string, brass, woodwind, or percussion) and have a desire to improve these skills both individually and in an ensemble setting. In smaller programs when it is feasible, the 7th and 8th grade students can be combined with the senior high school orchestra. Orchestra will present at least two performances per year. All performances will be scheduled and placed in the school calendar. Concerts are mandatory and attendance will be handled as outlined by the Warren County School District Policy. The course places emphasis on personal improvement in instrumental music skills, and a performance schedule that provides opportunities for demonstration of the level of mastery achieved by the students.

Full Year – .5 elective credit

Grades 9-12

00858 Senior Choir is designed primarily as a teaching choir wherein emphasis is placed upon vocal production (i.e., singers' breath, posture and voice-placement or head tone). Sight reading is taught on an almost daily basis. Attention is given to the changing voice, particularly the male voice. Students are encouraged to develop self-confidence in their own singing by singing in quartets, double quartets, etc., as well as with the large choir. The director also hears each student sing individually from time to time as a means of checking vocal progress. The choir will sing in the holiday and spring concerts and attendance is mandatory. Music is sung from memory and consists of today's music as well as classical and other periods.

Full Year – 1 elective credit

Grades 9-12

00859 A Cappella Choir – Acapella Choir is composed of students who successfully auditioned for it. Most music sung is unaccompanied, putting much stress on the individual learning to listen to the other parts, as well as his/her own part, while singing. Attention is placed on posture, vocalist's breathing and tone placement. Learning new music without the aid of the piano is a goal of this choir. This choir is performance-oriented with attendance mandatory at all concerts. This choir sometimes travels when musical achievement and school district approval warrant it. Final exam is required.

Full Year – 1 elective credit

Grades 10-12

00862 Ensemble Choir The Ensemble Choir is an elective course open to students in grades 10 through 12. Emphasis is placed upon soprano and alto voices and vocal production (i.e. vocalists' breathing, posture and voice-placement or head tone). Sight-singing is taught on an almost daily basis. Students are encouraged to develop self-confidence in their own singing by singing in trios, quartets, etc., as well as with the large choir. The director also listens to students sing individually as a means of assessment. The ensemble will sing in the Holiday and Spring concerts as well as various other performances in the community. Attendance is mandatory at all performances. Music is sung from memory and will consist of various styles. Final exam is required.

Full Year – 1 elective credit

Grades 10-12

00863 Madrigal Singers – Prerequisite: Student audition required – The Madrigal Choir is a small, mixed vocal ensemble that performs various styles of a cappella music. It is a performance-based choir, designed to incorporate Pa. Academic Standards 9.2, 9.3, and 9.4 into the highest possible level of performance (Standard 9.1). An emphasis is placed on providing enriching experiences in more difficult literature and representing the school district in local performances for community functions and civic organizations. A final exam is required, but it may be administered as a performance assessment.

Full Year – 1 elective credit

Grades 10-12

00864 Madrigals Advisory – Prerequisites: Student audition required – The Madrigal Choir is a small, mixed vocal ensemble that performs various styles of a cappella music. It is a performance-based choir, designed to incorporate Pa. Academic Standards 9.2, 9.3, and 9.4 into the highest possible level of performance (Standard 9.1). An emphasis is placed on providing enriching experiences in more difficult literature and representing the school district in local performances for community functions and civic organizations. A final exam is required, but it may be administered as a performance assessment

Full Year – .5 credit

Grades 10-12

MISCELLANEOUS

01052 Driver Education – Classroom Theory is a non-driving course that provides students with the knowledge and skills that should enable them to become safe and informed members of the highway transportation system. The attainment of these expectations will allow students to safely use the highway transportation system with greater confidence and higher skill levels. An additional optional six-hour summer behind-the-wheel course is available.

Semester Course – .5 elective credit

Grades 9-12

01150 Community Service Volunteer Students will review various community service options. The student will be required to meet with the director of a community-based worksite and develop an individualized plan of experiences. This plan will be submitted to the building principal for his/her approval. The student will be responsible for submitting weekly time sheets to the building principal. This will serve to document the volunteer time spent in the community service agency. Students will be awarded elective credit based on the following formula: Thirty (30) hours of service will equal .25 credit. A student may earn up to one (1) credit for this course. The credit will be placed on the student's transcript but will not be used to calculate the student's grade point average (GPA).

30 hours – .25 elective credit (May earn up to one (1) credit) Grades 9-12

VOCATIONAL EDUCATION

00901 Auto Collision Technology AM

00951 Auto Collision Technology PM - Students will develop the knowledge and skill necessary for entry-level employment in the automotive collision repair industry and its many related fields. The nine modules composing this three-year course are aligned to ASE standards. Learning experiences will be provided as students work on actual vehicles with modern tools that are used in the auto body trade. Because each damaged vehicle presents a different problem, repairers must obtain a broad knowledge of automobile construction and repair techniques, including welding. Students will experience various operations of collision repair including dent repair, MIG welding, replacement of parts, minor unibody repair, and paint refinishing procedures. Each year of the three-year program, students will study three of the nine modules. Also the safety, tools, and career opportunities areas of module I will be addressed every year. Professional attitudes will be developed through the SKILLS USA program and activities.

Three Year Course – 3 credits per year

Grades 10 – 12

00902 Automotive Technology AM

00952 Automotive Technology PM is a competency-based program, developed and managed by the instructor, consisting of a series of planned courses designed to provide graduates with the skills, knowledge, and attitudes necessary for entry level employment and/or post-secondary training in related careers. The competency-based structure of the course requires students to successfully complete those tasks that have been verified by the Occupational Advisory Committee as being critical to achieve entry-level employment. All courses within the program also integrate safety, leadership skills, along with mathematics, science, and communications skills that are part of the student's academic program.

Three Year Course – 3 credits per year

Grades 10 – 12

00903 Building Construction Occupations AM

00953 Building Construction Occupations PM program is designed to develop the knowledge, skills and attitudes necessary for entry-level employment or further training in the construction field. All instruction is aligned to the industry standards of the National Association of Home Builders. Students will learn to operate hand and power tools safely, to read blueprints, and to prepare a cost estimate. Basic skills are developed in the areas of carpentry, masonry, electrical wiring, plumbing, and painting. Students experience instruction in these skills during each year of the three-year program. The instructor, who provides hands-on instruction throughout the year, supervises building projects. Graduates of the Building Construction Occupations program often pursue post-secondary associate degree programs. Advance placement is possible for Tech Prep students through Penn College of Technology in Williamsport, PA. Graduates may also directly enter apprentice programs within the building industry. Senior students passing the NOTCI exam receive a certificate of advanced credit—depending on performance on the exam. Professional attitudes will be developed through SKILLS USA and class activities.

Three Year Course – 3 credits per year

Grades 10 – 12

00904 Pre-Engineering Technology AM (formerly Drafting/CAD)

00954 Pre-Engineering Technology PM is an instructional program that generally prepares individuals to apply technical knowledge and skills as each relates to gathering and translating data or specifications, including basic aspects of planning, preparing, and/or interpreting plans and sketches relating to engineering fields such as mechanical, architectural, structural, civil, pneumatic, marine, electrical/electronic, and topographical. Instruction is designed to provide experiences in drawing and CADD including 3-D, Assemble/Disassemble Animation, and Solid Model Rendering; the use of reproduction materials, equipment, and processes; the preparation of reports and data sheets for writing specifications; the joint reinforcements, and engineering data; multiple view assembly and sub-assembly drawings; and the development of models (physical and/or virtual).

Three Year Course – 3 credits per year

Grades 10 – 12

- 00905**** **Electronics/Digital Technology AM**
00955** **Electronics/Digital Technology PM** will provide students with learning experiences in analog and digital electronic equipment. Instruction also includes analysis and construction of A.C. and D.C. circuits and some troubleshooting and repair. Students are given the opportunity to learn electronics through the use of a new computer laboratory, which utilizes the latest electronic simulation software, computer aided instruction and laboratory equipment. Graduates in Electronics Technology will be prepared to pursue two- or four-year college technical programs such as technician/engineering, computers or electrical technology trades. Electronics graduates may also qualify for advanced placement in associated and bachelor degree programs, through articulation agreements with several post-secondary schools.
Three Year Course – 3 credits per year **Grades 10 – 12**
- 00906** **Food Service Production and Management AM**
00956 **Food Service Production and Management PM** is an instructional program that prepares students for employment and/or post-secondary training related to commercial, institutional, and other food industry occupations at entry level. Instructional and specialized learning experiences include theory and applications related to planning, selecting, purchasing, preparing (cooking and baking), and serving of quantity food and food products; nutrition, use and care of commercial equipment, HACCP-Hazard Analysis and Critical Control Points Program, Food Safety Certification Training (Serve Safe). Practical experience is a major part of the course through the operation and management of a complete restaurant and kitchen facility. Upon completion of this three-year program, students will be prepared for entry-level positions in the food service industry or advanced study at a culinary institute or college.
Three Year Course – 3 credits per year **Grades 10 - 12**
- 00907** **Machine Technology AM**
00957 **Machine Technology PM** – Students enrolled in Machine Technology will become familiar with classroom and laboratory experiences concerning all aspects of shaping metal parts. Emphasis will be placed on bench work and operating lathes, power saws, milling machines, grinders, drill presses, welders, and the electrical discharge machine. Students will also learn to use layout tools, micrometers, and gauges. Blueprint reading and layout of machine parts will also be taught. Computer numerically controlled machines, programming, and maintenance are also learned in the Machine Technology program.
Three Year Course – 3 credits per year **Grades 10 - 12**
- 00909** **Power Equipment Technology AM**
00959 **Power Equipment Technology PM** provides students instruction through hands-on experiences, performance labs, classroom instruction, and manufacturers' training materials. The program is a three-year program where the student will service, repair and troubleshoot a variety of power products including lawn and garden equipment, motorcycles, and ATVs, industrial equipment, and marine engine and systems. Students may specialize in any of these areas of instruction. Course content and standards are developed from Manufacturers, dealerships, associations, and academia.
Three Year Course – 3 credits per year **Grades 10 - 12**
- 00910** **Welding Technology AM**
00960 **Welding Technology PM** – Students in the Welding Technology Program will learn oxy-acetylene welding, shielded metal arc welding, gas tungsten arc welding, gas metal arc welding, flux cored arc welding, and pipe welding. All instruction and student learning activities are aligned with the American Welding Society (AWS) and the American Standard of Testing Material Specifications (ASTM). Following AWS standards, students perform guided bend following the process tests in all positions. These tests expect procedures commonly used in local and national industries. Students learn all the theories related to the above-mentioned welding processes, as well as an introduction to blueprint reading.
Three Year Course – 3 credits per year **Grades 10 - 12**

- 00912 Multimedia Marketing Design AM**
00962 Multimedia Marketing Design PM -offers opportunities to explore integrating media tools to promote business/sales, sports/music/entertainment marketing, and entrepreneurship. This is a three year program with two options. The cooperative education program option is also available for students to earn three credits as they work in their field. These classes prepare young men and women for sales in the business field, sports/music industry, advertising and entrepreneurship. Students also learn about employability skills, communication skills, math skills and attitudes associated with human relations. Students participate in the activities for the Distributive Education Club of America (DECA). This program provides an excellent foundation for a post-secondary degree in business management, merchandising, sports/music/entertainment marketing and/or international business fields.
Three Year Course – 3 credits per year **Grades 10 - 12**
- 00915 Protective Services AM**
00965 Protective Services PM is a three-year academic instructional program where students will receive training/information in the judicial system, equipment operations, emergency assessment, emergency treatment, and have an opportunity to understand the importance of wellness and fitness. Students are able to achieve certifications in CPR, AED, First Aid, Telecommunications, and starting in the 2008 – 09 school year, Basic EMT certification will also be available. It is a goal of the Protective Services Program to develop professional attitudes, values, and confidence necessary to perform entry level duties within the justice or private security system.
Three Year Course – 3 credits per year **Grades 10 - 12**
- 00925 Information Technology AM**
00975 Information Technology PM is a three year program designed to prepare students to enter the job market as an industry certified PC support technician or a post-secondary school with earned college credit upon entrance. Students complete a series of certifications that include CompTIA IT Fundamentals, CompTIA A+ and a NOCTI skilled worker competence certification. Students learn communication skills, customer service and professionalism by working on customer machines brought into the class for repair and by supporting the computers and users within the WCCC. The beginning curriculum focuses on personal computer, laptop and portable device, printer, scanner: hardware, configuring and support and security/safety. Students learn Windows 10 and Windows 8 customization, support, configuration and administration. The advanced curriculum takes students through networking, server hardware, troubleshooting and management. Students also have the opportunity to be part of Future Business Leaders of America (FBLA) and SkillsUSA and compete for district, state and national awards.
Three Year Course – 3 credits per year **Grades 10 - 12**
- 00928 Health/Medical Assisting Services AM**
00978 Health/Medical Assisting Services PM is a program with a combination of subject matter and experiences designed to prepare individuals for entry level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one of two health related occupations. The core curriculum includes basics anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications.
Three Year Course – 3 credits per year **Grades 10 - 11**

VIRTUAL ACADEMY ONLINE COURSES

Virtual Academy coursework, designated on students' transcripts with VIRTUAL, meets NCAA nontraditional core course legislation.

LANGUAGE ARTS

10008 English 9 – The course consists of integrated units integrated units focused on a theme or mode of study. Each unit contains thematically related lessons including: reading and the study of literature, reading informational text, writing, speaking and listening, analyzing different forms of literature, and language study, which includes word knowledge and grammar skills. Writing assignments include narrative, expository, and persuasive/argumentative modes and emphasize the use of and details and reasoning to support ideas. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Speaking and listening lessons require oral and multimedia presentations. Vocabulary development instruction is integrated into literature and informational text lessons.

Full Year – 1 credit

Grade 9

10009* English 9 College Preparatory - This course is intended for college bound students. The course consists of integrated units integrated units focused on a theme or mode of study. Each unit contains thematically related lessons including: reading and the study of literature, reading informational text, writing, speaking and listening, analyzing different forms of literature, and language study, which includes word knowledge and grammar skills. Writing assignments include expository, analytical, and persuasive/argumentative modes and emphasize the use of and details and reasoning to support ideas. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Speaking and listening lessons require oral and multimedia presentations. Vocabulary development instruction is integrated into literature and informational text lessons. Students are required to participate in Discussion Based Assessments for each module of study.

Full Year – 1 credit

Grade 9

110011 English 10 — Prerequisites: Successful completion of a required English 9 course or principal recommendation The course is an integrated curriculum, with each unit consisting of thematically related lessons including: analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. The skills that students practice for this course are similar to the skills in English 9 but require more independence and depth of thought. Writing assignments required include expository, persuasive, and analytical modes, emphasizing the use of details, evidence, and reasoning to support ideas. Speaking and listening lessons include how to plan and deliver informative speeches and presentations. Vocabulary development instruction is integrated into literature and informational text lessons. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research.

Full Year – 1 credit

Grade 10

10012* English 10 College Preparatory - Prerequisites: Successful completion of a required English 9 course - This course is intended for college bound students. The course is an integrated curriculum, with each unit consisting of thematically related lessons including: analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. The skills that students practice for this course are similar to the skills in English 9 but require more independence and depth of thought. Writing assignments required include expository, persuasive, and analytical modes, emphasizing the use of details, evidence, and reasoning to support ideas. Speaking and listening lessons include how to plan and deliver informative speeches and presentations. Vocabulary development instruction is integrated into literature and informational text lessons. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to participate in Discussion Based Assessments for each module of study.

Full Year – 1 credit

Grade 10

10013H* English 10 Honors – Prerequisites: Successful completion of a required English 9 College

Preparatory and teacher recommendation - This course is an integrated curriculum consisting of thematically related lessons including: analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. The course provides challenging assignments aimed at preparing Honors-level students for advanced work in the study of literature and language arts. Writing assignments required include expository, persuasive, and analytical modes, emphasizing the use of details, evidence, and reasoning to support ideas. Speaking and listening lessons require collaborative discussion skills, the peer review process, and how to plan and deliver informative speeches and presentations. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

Honors assignments ask students to apply advanced skills more often than students in English 10 CP. For example, students move immediately beyond the identification of literary elements or aspects of informational text to the analysis of these components. Likewise, Honors students don't simply recognize and describe rhetorical strategies—they also use these strategies to create specific effects. Some Honors assignments require students to go one step farther in developing an assignment—for instance, writing an essay after generating ideas for the essay using the worksheet provided to students in the CP course. Clear and extensive guidelines are provided for each Honors assignment along with a detailed rubric for evaluation.

Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. Honors students will write more often and more deeply about topics and also reflect more critically on the processes they use to read and write. Students are required to participate in Discussion Based Assessments for each module of study.

Full Year – 1 credit

Grade 10

10014 English 11 – Prerequisites: Successful completion of the required English 9 and English 10 courses

- This course is an American Literature course, with units organized chronologically according to periods in literary history. As students read foundation works of literature and other historical documents written between 1600 and 1900, they'll review and extend skills in analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Students will study historical eras and literary movements of the 20th and 21st century, such as Naturalism, Imagism, the Harlem Renaissance, and Post-Modernism. Each module or unit begins with a lesson that provides historical context for the era and introduces themes that emerged in the literature of that era. Each lesson provides students with an opportunity to review basic analysis skills before applying those skills to works of literature or key historical documents. Lessons focused on more difficult historical documents include activities that help students comprehend the complex ideas in these works.

Writing modes addressed include reflective, persuasive, and analytical modes. Assignments emphasize the use of details, evidence, and reasoning to support ideas; writing lessons include model essays that demonstrate key features of each mode. The speaking and listening lessons cover rhetoric, writing process, and speaking skills. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

Full Year – 1 credit

Grade 11

10015* English 11 College Prep – Prerequisites: Successful completion of the required English 9 and English 10 courses

- This course is intended for college bound students. This course is an American Literature course, with units organized chronologically according to periods in literary history. As students read foundation works of literature and other historical documents written between 1600 and 1900, they'll review and extend skills in analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Students

will study historical eras and literary movements of the 20th and 21st century, such as Naturalism, Imagism, the Harlem Renaissance, and Post-Modernism. Each module or unit begins with a lesson that provides historical context for the era and introduces themes that emerged in the literature of that era. Each lesson provides students with an opportunity to review basic analysis skills before applying those skills to works of literature or key historical documents. Lessons focused on more difficult historical documents include activities that help students comprehend the complex ideas in these works.

Writing modes addressed include reflective, persuasive, and analytical modes. Assignments emphasize the use of details, evidence, and reasoning to support ideas; writing lessons include model essays that demonstrate key features of each mode. The speaking and listening lessons cover rhetoric, writing process, and speaking skills. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. Students are required to participate in Discussion Based Assessments for each module of study.

Full Year – 1 credit

Grade 11

10016H* English 11 Honors - Prerequisites: Successful completion of a required Honors 10 English course; however, a student who successfully completes English 10 College Preparatory may enter the course with teacher recommendation – This course is an American Literature course, with units organized chronologically according to periods in literary history. As students read foundational works of literature and other historical documents written between 1600 and 1900, they'll review and extend skills in analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. . Students will study historical eras and literary movements of the 20th and 21st century, such as Naturalism, Imagism, the Harlem Renaissance, and Post-Modernism. Each module or unit begins with a lesson that provides historical context for the era and introduces themes that emerged in the literature of that era. Each lesson provides students with an opportunity to review basic analysis skills before applying those skills to works of literature or key historical documents. Lessons focused on more difficult historical documents include activities that help students comprehend the complex ideas in these works.

Writing modes addressed include reflective, persuasive, and analytical modes. Assignments emphasize the use of details, evidence, and reasoning to support ideas; writing lessons include model essays that demonstrate key features of each mode. The speaking and listening lessons cover rhetoric, writing process, and speaking skills. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. The Honors level of the course provides additional challenging assignments aimed at preparing college-bound students for advanced work in the study of literature and language arts. Students are required to participate in Discussion Based Assessments for each module of study.

Full Year – 1 credit

Grade 11

10017 English 12 – Prerequisites: Successful completion of the required English 9, 10 and 11 courses – This course presents major works of literature organized into thematic units. Each unit contains poetry, short stories, and novels that revolve around the theme for the unit. Themes include self, relationships, alienation, choice, and death. As students study the literature of the world, they have the opportunity to reflect on these important themes by writing in multiple modes and creating cross-disciplinary projects. Major concepts covered include: use language to express ideas, beliefs and feelings; utilize language to facilitate independent thinking; strategically use language to communicate for a variety of purposes; empathizing with the writing of other cultures enables the reader to more fully appreciate the viewpoints represented.

Full Year – 1 credit

Grade 12

10018* English 12 College Prep – Prerequisites: Successful completion of required English 9, 10 and 11 courses - This course is intended for college bound students. This course presents major works of literature organized into thematic units. Each unit contains poetry, short stories, and novels that revolve around the theme for the unit. Themes include self, relationships, alienation, choice, and death. A final unit of dystopian literature includes an extensive writing project. As students study the literature of the world, they have the opportunity to reflect on these important themes by writing in multiple modes and creating cross-disciplinary projects. Major concepts covered include: use language to express ideas, beliefs and feelings; utilize language to facilitate independent thinking; strategically use language to communicate for a variety of purposes; empathizing with the writing of other cultures enables the reader to more fully appreciate the viewpoints represented. Students are required to participate in Discussion Based Assessments for each module of study.
Full Year – 1 credit **Grade 12**

10018H* English 12 Honors - Prerequisites: Successful completion of a required Honors 11 English course; however, a student who successfully completes English 11 College Preparatory may enter the course with teacher recommendation This course presents major works of literature organized into thematic units. Each unit contains poetry, short stories, and novels that revolve around the theme for the unit. Themes include self, relationships, alienation, choice, and death. A final unit of dystopian literature includes an extensive writing project. As students study the literature of the world, they have the opportunity to reflect on these important themes by writing in multiple modes and creating cross-disciplinary projects. Major concepts covered include: use language to express ideas, beliefs and feelings; utilize language to facilitate independent thinking; strategically use language to communicate for a variety of purposes; empathizing with the writing of other cultures enables the reader to more fully appreciate the viewpoints represented.

Honors focuses on learning to write with confidence and mastery. Emphasis is placed on building language flexibility, improving sentence structure, and mastering the writing process. As an Honors course, emphasis is placed increased reading and writing opportunities. In each unit, students complete an exam as well as writing projects that include a personal narrative, a research document, a literary response, a descriptive essay, an expository essay, and a persuasive composition. Students are required to participate in Discussion Based Assessments for each module of study.

Full Year – 1 credit **Grade 12**

10032 Creative Writing I – In this course, students consider the importance of word play exercises in improving their facility with language while building a compelling and creative writing style. Focusing on word nuances and precision, later lessons guide students to write in a variety of short modes—including poetry, song lyrics, prose poetry, short stories, and creative nonfiction. There are several opportunities for peer review in this semester, during which students learn best practices for participating in writing workshops, and then revise their work using feedback from their peers.
Semester Course – .5 credit **Grades 9 - 12**

10033 Creative Writing II – Prerequisite Creative Writing I - This course focuses on longer works of fiction: short stories, plays, and novels. Students learn basic techniques of plot and character development along with strategies for creating suspense and building a theme, and they have opportunities to write in several different genres. Lessons cover a few special topics as well, including graphic novels, animation, comedy, and improvisation. Students apply what they have learned about writing workshops and revising to the longer pieces of writing they create for this semester.
Semester Course – .5 credit **Grades 9 - 12**

10048 Film and Television - The culture of cinema and television tells a unique story of history and innovation. Students in Film and Television will be introduced to industry icons and stars of the big and small screen. By studying and writing about film and television, students will analyze trends in technology and culture and better understand how to be an informed viewer.
Semester Course - .5 credit **Grades 9 – 12**

- 10049 Career Planning** - The Career Planning course guides students through the essential elements of the career planning process and the development of a defined career plan. Students will consider the many factors that impact career success and satisfaction. Using a process of investigation, research, and self-discovery, students will acquire the understandings critical to the career planning process. Upon completion of the course, students will have created a practical and comprehensive college or career transition portfolio that reflects their skills and abilities, as well as their interests, values, and goals.
Semester Course – .5 credit **Grades 9 - 12**
- 10088 Gothic Literature** - Vampires, ghosts, and werewolves have lived in our collective imagination since 18th-century Gothic literature, which introduced a thrilling psychological experience for the reader. Explore the themes of terror vs. horror, the supernatural, and the struggle between good and evil. Are you brave enough to go beyond the fear and find an appreciation for the dark beauty of Gothic stories?
Semester Course - .5 credit **Grades 9 – 12**
- 10090 Mythology and Folklore** - Mighty heroes. Angry gods and goddesses. Cunning animals. Mythology and folklore have been used since the first people gathered around the fire as a way to make sense of humankind and our world. This course focuses on the many myths and legends woven into cultures around the world. Starting with an overview of mythology and the many kinds of folklore, the student will journey with ancient heroes as they slay dragons and outwit the gods, follow fearless warrior women into battle and watch as clever animals outwit those stronger than themselves. They will explore the universality and social significance of myths and folklore, and see how they are still used to shape society today.
Semester Course - .5 credit **Grades 9 – 12**
- 10063 Media and Communication** - From banner ads to billboards, newspaper articles, and Facebook feeds, people are constantly sharing ideas. This course looks at the many facets of mass media. Students will learn how the media shapes every aspect of our lives. We examine the role of newspapers, books, magazines, radio, movies, television, and the growing influence of Facebook, YouTube, and Twitter.
Semester Course - .5 credit **Grades 9 – 12**

SOCIAL STUDIES

- 10191 World History** - In this course, students explore ancient civilizations in order to understand the geographic, political, economic, and social characteristics of people. By developing their understanding of the past, students can better understand the present and determine their direction for the future. In this course, students explore the first civilization in Mesopotamia; the ancient civilizations of China, Greece, and Rome; the rise of the Byzantine Empire; and the feudal system in Europe and Japan. They also learn about the Renaissance and Reformation, the Enlightenment Period, and the scientific and democratic revolutions in Europe that spread to the new nation of America. The last part of the course concentrates on the Napoleonic Era, the Industrial Revolution in England, and the rise of imperialism in Europe. In addition, historical analysis and current events are featured in the final lessons.
Full Year - 1 credit **Grade 9**
- 10192* World History College Preparatory** - In this course, students explore ancient civilizations in order to understand the geographic, political, economic, and social characteristics of people. By developing their understanding of the past, students can better understand the present and determine their direction for the future. In this course, students explore the first civilization in Mesopotamia; the ancient civilizations of China, Greece, and Rome; the rise of the Byzantine Empire; and the feudal system in Europe and Japan. They also learn about the Renaissance and Reformation, the Enlightenment Period, and the scientific and democratic revolutions in Europe that spread to the new nation of America. The last part of the course concentrates on the Napoleonic Era, the Industrial Revolution in England, and the rise of imperialism in Europe. In addition, historical analysis and current events are featured in the final lessons. Because the higher expectation, students will be required to produce several college level essays and communicate with the instructor upon the conclusion of each module (DBA).
Full Year - 1 credit **Grade 9**

10110 US History I - This course covers the discovery, development, and growth of the United States. Major topics include; early exploration, American Indian cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. American History I is a survey of the struggle to build the United States of America from the colonial period to the post- Civil War eras. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Not only are the topics of American history discussed, but students also explore research methods and determine accurate sources of data from the past. Knowing the facts and dates of history are just the beginning: each student must understand how history affects him or her.

Full Year - 1 credit

Grade 10

10111* US History I College Preparatory - This course covers the discovery, development, and growth of the United States. Major topics include; early exploration, American Indian cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. American History I is a survey of the struggle to build the United States of America from the colonial period to the post- Civil War eras. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Not only are the topics of American history discussed, but students also explore research methods and determine accurate sources of data from the past. Knowing the facts and dates of history are just the beginning: each student must understand how history affects him or her. Because of the higher expectation, students will be required to produce several college level essays and communicate with the instructor upon the conclusion of each module (DBA).

Full Year - 1 credit

Grade 10

10126 US History II - This course begins with a study of American life before the 1929 Stock Market crash and how the Roaring Twenties influenced society in the late 19th through early 20th centuries. Students will examine the causes and consequences of the Great Depression and move on into a detailed study of World War II with an emphasis on America's role in the conflict. The course continues with an analysis of the Cold War struggle and America's rise as a superpower. The Civil Rights and Women's rights movements, pollution and the environment, and American domestic and foreign policy will be examined. The course wraps up with a summary of current events and issues, including a study of the Middle East. This course begins with an assessment of life in United States pre-World War I and ends with the conflicts of the new millennium. Students look at the nation in terms of economic, social, and political trends. The experiences of the last century are summarized, including a look into the civil rights issues that have embroiled the nation in conflict. The development of the United States of America into a superpower is explored within a global context.

Full Year - 1 credit

Grade 11

10127* US II College Preparatory - This course begins with a study of American life before the 1929 Stock Market crash and how the Roaring Twenties influenced society in the late 19th through early 20th centuries. Students will examine the causes and consequences of the Great Depression and move on into a detailed study of World War II with an emphasis on America's role in the conflict. The course continues with an analysis of the Cold War struggle and America's rise as a superpower. The Civil Rights and Women's rights movements, pollution and the environment, and American domestic and foreign policy will be examined. The course wraps up with a summary of current events and issues, including a study of the Middle East. This course begins with an assessment of life in United States pre-World War I and ends with the conflicts of the new millennium. Students look at the nation in terms of economic, social, and political trends. The experiences of the last century are summarized, including a look into the civil rights issues that have embroiled the nation in conflict. The development of the United States of America into a superpower is explored within a global context. Because of the higher expectation, students will be required to produce several college level essays and communicate with the instructor upon the conclusion of each module (DBA).

Full Year - 1 credit

Grade 11

10117 American Government - This course will guide students through an in-depth study of the history, structure, and guiding principles of American government. The first unit will review the origins of government in general and American government in particular—from the earliest models for democracy to the founding documents that created a federalist system of government in the U.S. Several units will help students explore the roles and responsibilities of each branch of government as well as the impact that the Constitution has had and continues to have on the way government works and on the lives of individual Americans. The course’s final unit will guide students through a series of projects that require them to apply what they have learned about American government to an issue that interests them.

Semester Course - .5 credit

Grade 12

10156* American Government College Preparatory - This course provides the student with the basic knowledge of the history and philosophy of the United States government, and the principles that guide our democracy. The student examines the United States Constitution to answer questions and determine the facts of government. The course focuses on the functions and duties of the three branches of government, which are the legislative, executive, and judicial. Special attention is given to political participation, the rights and responsibilities of citizenship, and government systems of the world. American Government Honors references the view of political institutions to explore the history, organization, and functions of the U.S. government. It offers students learning opportunities that build one on another. A goal of the course is for the student to develop the critical skills of analysis, synthesis, and evaluation in a demanding and thoughtful academic setting. Students are encouraged to use their knowledge of the organizations and management of governing to develop their own views on current political issues. Then the students are taught how to apply what they have learned into civic action. The course looks closely at the political knowledge and values of the country as it gives students a look into the problems faced by presidents, congressional representatives, and other political activists. It also covers the roles of political parties, interest groups, and the media in shaping the government. The Supreme Court is presented as the voice of reason in the balance of powers. Students are encouraged to perform at higher levels as they analyze historical documents and additional readings, work with a set of facts arranged by theme, become this is a higher level course, students will be expected to write several college level essays and communicate throughout the course with the instructor upon the completion of each Module (DBA).

Semester Course - .5 credit

Grade 12

10116 Economics - This course provides the student with basic knowledge of the history and philosophy of the United States economy and the economic principles that guide our democracy. Students demonstrate problem solving, and their understanding of the processes for economic reasoning, by applying economic principles to decisions they make as consumers, workers, and members of local and larger societies. This, in turn, enables the student to understand the issues and public policies that affect economic, political, and cultural systems.

Semester Course - .5 credit

Grade 12

10155* Economics College Preparatory - This course introduces the principles and the applications of economics in everyday life. Students develop an understanding of limited resources, and compare it with unlimited wants and needs. Students learn how individual and national economic decisions are made to allocate goods and services among competing users. Students apply economic principles to think and problem solve. The study of Economics uses the view of economic institutions and policies to explore the history, organization, and functions of the U.S. government in controlling our economy. It offers students learning opportunities that build one on another. A goal of the course is for the student to develop the critical skills of analysis, synthesis, and evaluation in a demanding and thoughtful academic setting. Students are encouraged to use their knowledge of the policies and institutions of economics to develop their own views on current economic and monetary issues. They are taught how to apply what they have learned into personal financial activities. The course looks closely at the economic knowledge and values of the country and gives students a look into the problems faced by presidents, and congressional representatives. It also covers the roles of political activists, political parties, interest groups, and the media in shaping the U. S. economy. The Supreme Court is presented as the voice of reason in the balance of powers. Students are encouraged to perform at higher levels as they are presented with

historical documents and additional readings, work with a set of facts arranged by theme, become skillful in note-taking, and join in student discussions. Students develop and demonstrate their writing skills by preparing several college level essays and extended research-based papers. Because of the higher expectations placed upon the student, they will be required to communicate with the instructor upon the completion of each module (DBA).

Semester Course - .5 credit

Grade 12

10190 History of the Holocaust - Holocaust education requires a comprehensive study of not only times, dates, and places, but also the motivation and ideology that allowed these events. In this course, students will study the history of anti-Semitism; the rise of the Nazi party; and the Holocaust, from its beginnings through liberation and the aftermath of the tragedy. The study of the Holocaust is a multi-disciplinary one, integrating world history, geography, American history, and civics. Through this in-depth, semester-long study of the Holocaust, high school students will gain an understanding of the ramifications of prejudice and indifference, the potential for government-supported terror, and they will get glimpses of kindness and humanity in the worst of times.

Semester Course - .5 credit

Grades 9 – 12

10120 Military Careers - Most of us have seen a war movie; maybe it had a hotshot aviator or a renegade private or a daring Special Forces operative. But outside of these sensationalized portrayals, do you really understand how the military works or what it can do for you? The military offers far more career diversity than most people imagine, and Introduction to Military Careers will provide the information you need to gain a broader understanding of how to find the right fit. You will learn about the five military branches—Air Force, Army, Coast Guard, Marines Corps, and Navy—and examine which jobs you might like to pursue. From aviation, to medicine, to law enforcement, the military can be an outstanding place to achieve your dreams in a supportive and well-structured environment.

Semester Course - .5 credit

Grades 9 – 12

10180 Careers in Criminal Justice - Most of us have watched a sensationalized crime show at one time or another, but do we really know how things work behind those dreaded prison bars? Do we really understand all the many factors in our justice proceedings? The criminal justice system is a very complex field that requires many seriously dedicated people who are willing to pursue equal justice for all. The Careers in Criminal Justice course illuminates what those different career choices are and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order. Find out more about what really happens when the television show ends and reality begins.

Semester Course - .5 credit

Grades 9 – 12

10184 Criminology: Inside the Criminal Mind - Understanding the criminal mind is not easy. Why do certain people commit horrible acts? Can we ever begin to understand their reasoning and motivation? Perhaps. In Criminology: Inside the Criminal Mind, you will be given the rare opportunity to climb inside the mind of a criminal and examine the ideas and motivations at work. The mental state of a criminal can be affected by many different aspects of life-psychological, biological, sociological—all of which have differing perspectives and influences. You will investigate not only how these variables affect the criminal mind but also how the criminal justice system remains committed to upholding the law through diligence and an uncompromising process.

Semester Course - .5 credit

Grades 9 – 12

10118 Psychology - The student begins with a brief history of psychologists and their experimental methods. Next they examine personality theories. Then human development from the infant stage through adult stage is explored. Finally, the last part of the course is about consciousness: sleep, dreams, and consciousness-altering substances. Students are encouraged to increase their own self-awareness as they move through the course. Students examine the nature of intelligence in humans and animals, including the origin of intelligence and how to measure it. They learn about learning with an emphasis on classical and operant conditioning. Students also investigate social psychology and psychological disorders. They demonstrate their understanding by completing projects in which they play roles like teacher, parent, and psychologist.

Full Year- 1 credit

Grades 9 – 12

- 10143 African American History** - Throughout U.S. history, how have African Americans helped shaped American culture? This course answers that question by tracing African Americans' accomplishments and obstacles, beginning with the slave trade on up to the modern Civil Rights movement. Learn about the political, economic, social, religious, and cultural factors that have influenced African American life, meet individuals who changed the course of history, and explore how the African American story still influences current events.
Semester Course - .5 credit **Grades 9 – 12**

MATHEMATICS

- 10225SEQA Algebra 1A** - Algebra 1A introduces students to the world of Algebra through expressions and equations. Students will evaluate algebraic expressions, solve linear equations and graph them. Students will also model data in various formats, transform functions, and solve systems of equations using multiple methods. This course also steers students through various real-world scenarios with the emphasis on using basic statistics to interpret the information given and found. Students learn through online lesson materials, videos and interactive activities. Teacher feedback is provided throughout the course. **This course is provided to students who completed Pre-Algebra 8 but did not earn greater than a 75%.**
Full Year – 1 credit **Grades 9-10**
- 10226SEQB Algebra 1B** – Algebra 1B builds on the concepts learned in the first course by providing a strong foundation in solving problems. Students will work with problems and applications that involve exponents, quadratic equations, polynomials and factoring methods, rational and radical equations, data analysis and probability. The use of equations and formulas expands in this course to allow student multiple outlets in solving problems. Students will interact with course materials through online lessons, videos, interactive questions and real-world applications. Teacher feedback is given throughout the course. **This course is designed for students who passed Algebra 1A with at least a 60%.**
Full Year – 1 credit **Grades 9-10**
- 10221* Algebra 1 College Preparatory** - Students begin using prior math knowledge to evaluate expressions and equations. This quickly turns into evaluating algebraic expressions, solving linear equations, and graphing various types of equations. Students will model data, solve equations with multiple variables, and manipulate functions. Towards the end of this course, students will be able to apply the use of exponents, quadratic equations, polynomials and factoring methods, rational and radical equations, data analysis and probability for evaluation. College Preparatory (CP) Algebra 1 differs from Algebra 1 in that a greater emphasis is placed on skills required to be successful at the college level. Students will apply algebraic concepts using real-world applications with an emphasis on detailed explanations. Students are required to complete discussion based assessments (DBAs) at the end of each module. **Keystone Exams are required of all students who take an Algebra 1 course, for graduation. If this state-mandated test is not passed, remediation will be required, and students will retake the exam. The Keystone Exam is a requirement for graduation.**
Full Year – 1 credit **Grade 9**
- 10239 Algebra II** - This course is a continuation of Algebra concepts that further extends the learner's understanding and prepares them with the building blocks needed to dive deeper into trigonometry, pre-calculus and advanced probability and statistics. It uses practical problems to connect algebra to the real world and apply the theory introduced in Algebra I, going from linear equations and inequalities to complex numbers. It includes the study and applications of quadratics including parabolas. Other topics included in this course cover information on radicals, polynomials, inverses and radical functions. **This course is limited to teacher recommendation.**
Full Year – 1 credit **Grades 9-12**
- 10240* Algebra II College Preparatory** – Prerequisite: Successful completion of Algebra I College Preparatory with a 70% or higher or recommendation by the Algebra I teacher - Algebraic

concepts, an integral part of secondary mathematics courses, continue in this course to further extend the learner's understanding and prepares them with the building blocks needed to dive deeper into trigonometry, pre-calculus and advanced probability and statistics. It uses practical problems to connect algebra to the real world and apply the theory introduced in Algebra I, going from linear equations and inequalities to complex numbers. It includes the study and applications of quadratics including parabolas. College Preparatory (CP) Algebra II places a greater emphasis on quadratic, radical, and inverse functions, as well as arithmetic and geometric sequences and series. Students are required to complete discussion based assessments (DBAs) at the end of each module.

Full Year – 1 credit

Grades 9-12

10241H* Algebra II Honors - This course further extends the learner's understanding of major algebraic concepts, and prepares them with the building blocks needed to dive deeper into trigonometry, pre-calculus and advanced probability and statistics. Topics include radicals, quadratic functions and equations, polynomials, rational expressions and equations, systems of equations and inequalities, exponents and logarithms, sequences and series, probability and statistics and trigonometry. In the honors course, students will do in-depth study, problem-solving and application of algebraic concepts. Students are required to complete discussion based assessments (DBAs) at the end of each module.

Recommended grade of 75% or higher earned in Honors Algebra I and passed the Algebra 1

Keystone Exam with a proficient or advanced score.

Full Year – 1 credit

Grade 9-12

10212 Geometry – This course engages students with how mathematical relationships can predict results in the world around us. Through practical applications, students will see how geometric reasoning provides insight to everyday life. Beginning with the basic foundations of Geometry, the course expands to explore the measurement of line segments, angles, and two-dimensional figures. Students will continue their course work with quadrilaterals and circles, transformations, and calculating area and volume of 2-dimensional and 3-dimensional objects. **Recommended grade average of 60% in both Algebra IA & Algebra IB or completion of both Algebra I CP & Algebra II CP with an average of 60% and 70%.**

Full Year – 1 credit

Grades 11-12

10250 Geometry College Preparatory - Prerequisites: Recommended grade of 70% or higher in Algebra II College Preparatory or Algebra II Honors - This is an academic course designed to provide an opportunity for students to reason mathematically. This course starts with basic concepts such as points, line, and planes and builds to include polygons, parallel and perpendicular lines, and leads to the study of spheres and solids. Algebraic skills are incorporated with practical applications to concrete problems. Deductive and inductive reasoning are emphasized, while applying problem-solving techniques to real-world problems. Students participate in identifying and calculating trigonometric ratios as well as writing proofs of quadrilaterals. Students are required to complete discussion based assessments (DBAs) at the end of each module.

Full Year – 1 credit

Grades 11-12

10251* Geometry Honors - Prerequisites: Recommended grade of 80% or higher in Algebra II or 75% or higher in Algebra II Honors - Geometry Honors is the study of the measurement of the world, with a focus on application of geometric concepts. What makes Geometry so engaging is the relationship of figures and measures to each other, and how these relationships can predict results in the world around us. Through real-world applications, the honors student sees how geometric reasoning provides insight into everyday life. The course begins with the foundations of Geometry and quickly expands to explore in-depth reasoning of patterns, logic, angle pairs and lines, exploration and construction of various objects, quadrilateral proofs and algebraic proofs. This course helps students recognize how algebra and geometry complement each other by applying both to solve complex problems. Students are required to complete discussion based assessments (DBAs) at the end of each module.

Full Year – 1 credit

Grades 11-12

10213 Consumer Math - The student will explore topics such as business statistics, profit calculations, payroll, banking, interest calculations, insurance, taxes, and other business topics. At the end of the lessons, you

will be able to do the following: Solve equations and mathematical problems using whole numbers, fractions, and decimals; Reconcile bank statements; Analyze business problems and financial statements using percentages and statistical concepts; Explain various payroll issues that affect employers and employees; Apply mathematical concepts to business lending transactions, transactions involving annuities and stocks and bonds, transactions involving inventory and business problems involving pricing and discounts; Calculate various mortgage, insurance, and tax problems; Apply various depreciation methods.

Full Year – 1.0 credit

Grades 9 – 12

10214 Financial Literacy - This course is designed to help students budget, keep a checkbook and filing system, deal with debt and credit, and become wiser consumers. Students will learn how money and the dynamics surrounding it affect their relationships, their lifestyles, and their retirement.

Semester Course – .5 credit

Grades 9 – 12

10275* Trigonometry CP - Prerequisites: Recommended grade of at least 75% in Algebra I CP, Algebra II CP, and Geometry CP Trigonometry is a specialist branch of geometry that deals with the study of triangles. In trigonometry, mathematicians study the relationships between the sides and angles of triangles. Right triangles, which are triangles with one angle of 90 degrees, are a key area of study in this area of mathematics. The content of this course includes functions and graphs, the Pythagorean Theorem, all six trig functions and their graphs, the study of trig identities, the Law of Sine's and the Law of Cosines applied to triangles, inverse functions and equations, polar coordinates with graphs and a review of Algebra II. Applications of this branch of mathematics and algebra in real life are many and varied. This course is recommended for students interested in pursuing careers in engineering, surveying, astronomy, architecture, and aeronautical studies. A final exam is required for this course.

Full Year – 1.0 credit

Grades 11-12

10270* Pre-Calculus– Prerequisites: Algebra 1, Geometry, and Algebra II Recommended grade average of 75% or higher in Algebra I CP, Algebra II CP, and Geometry CP – This is an academic course designed to solidify the fundamental concepts of high school algebra and geometry. Major topics include solving and graphing linear and quadratic equations, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, and trigonometric functions and identities. Optional topics may include conic sections, matrices, and sequences and series. Final exam is required.

Full Year – 1 credit

Grades 11 – 12

10271H*Pre-Calculus Honors– Prerequisites: Algebra 1, Geometry, and Algebra II Students, as mathematic analysts, investigate how advanced mathematics concepts are used to solve problems encountered in operating national parks. As students venture from algebra to trigonometry, they analyze and articulate the real-world application of these concepts. The purpose of this course is to study functions and develop skills necessary for the study of calculus. This course includes algebra, analytical geometry, and trigonometry.

Full Year – 1 credit

Grades 11 – 12

SCIENCE

10372 Introduction to Environmental Science – This course will focus on the fundamentals of our environment. Students will review scientific inquiry before exploring Earth's spheres and the ecological systems that provide for all species. Specifically, students will look at aquatic and terrestrial biomes, energy resources, impacts on population growth, and climate change. Additional topics discussed include agriculture, minerals, water, and the atmosphere.

Full Year – 1 credit

Grade 9

10309* Environmental Science College Preparatory – Students begin this course with an overview of scientific inquiry, models, and theory. Then, get ready to dive into the inner-Earth and its spheres and cycles. Students will continue to learn about ecology; specifically relationships and interactions between species,

energy flow within communities, and factors that try to prevent extinction. The earth's population is growing rapidly, and we need to find new, innovative ways to ensure that we are able to provide for our global energy needs. Students will look at the reasons why sustainability is important, take a balanced and evidence-based look at climate change, and learn new ways that we can harness renewable resources. Terrestrial and aquatic biomes are described, along with biodiversity. Students are required to complete discussion based assessments (DBAs) at the end of each module.

Full Year – 1 credit

Grade 9

10311 Biology – This course begins with the fundamentals of the scientific method and major concepts of biology. Students who take this course will have a deeper appreciation for the complexities of living organisms. Life on this planet, unlike anywhere else in the observable universe, is complex and highly organized. Whether examining life on the molecular or the planetary level, it exhibits a highly organized structure that inspires awe by its genius and complexity. In the last 50 years, discoveries have launched new branches of biology that have transformed the daily routine, from conception to death. Concepts discussed in this course include the cell, the molecular basis of heredity, the interdependence of organisms, population dynamics and evolution. This course provides a multimedia format using interactive modules, labs, narrated animation, text, and videos to present the study of life on this planet.

Successful completion of Introduction to Earth and Environmental Sciences in their 9th grade year.

Full Year – 1 credit

Grade 10

10310* Biology College Preparatory – The science of biology begins with in-depth information regarding the principles of life and inheritance. Students will then take a closer look at how organisms are classified, specifically plants. Topics include the life of the cell, dealing with issues of structure, transport, genetics, protein synthesis, energy production, and usage. In the case of genetics, the molecular behavior of DNA is elaborated to show how it determines the visible traits of the organism and population. Students will then switch gears and focus more on ecosystems, specifically populations, communities, biomes and the human impact on the environment. Students will bring all of the ideas together in the evolution module. This course provides a multimedia format using interactive modules, labs, narrated animation, text, and videos to present the study of life on this planet. Students are required to complete discussion based assessments (DBAs) at the end of each module. **Successful completion of Introduction to Earth and Environmental Sciences or those accelerated students who are also enrolled in the ninth grade required science courses.**

Full Year – 1 credit

Grade 10

10317H Biology Honors – **Student must receive proficient or advanced on the Biology Keystone to enroll in this course** - Students will take a look at yet another aspect of what the study of life has to offer. In this course, the focus becomes more specific to living things and the chemistry behind the processes. Students will dive into the structure and function of various plants and animals, including invertebrates and vertebrates. Heredity and molecular genetics will break down the process of gene expression and regulation, biotechnology, and the molecular basis of inheritance. Student will also discover the processes and systems of the human body. Evolutionary biology, Darwinism, history of life, and ecology wrap up this course. Students will be required to complete formal and informal lab reports, lab simulations, and additional assignments throughout the course that build on the content provided. These assignments, like creating concept maps or researching endangered species, makes these students go above and beyond the curriculum content in creativity and application. The aim of this course is to guide you, the student, to see your world in biological terms, and then to expand your vision to contemplate current topics in biological research and application. Students are required to complete discussion based assessments (DBAs) at the end of each module. Student must receive proficient or advanced on the Biology Keystone to enroll in this course.

Full Year – 1 credit

Grade 10

10330 Chemistry - In this course, students will discover what chemistry is, how it is found and used all around us. The importance of science to solve real world problems will be investigated. This course includes study in the following areas: types of matter, atomic structure, chemical periodic properties, formula writing, naming, and chemical equations. This course requires an understanding of both math and science and will require a developing understanding of the metric system, measurement and introductory stoichiometry. Students will discover how chemistry is applied all around and within us. The role of chemistry to solve real world problems will be investigated. This course includes study in the following areas: chemical bonding, introductory thermochemistry, and acid and base chemistry. This course requires an understanding of both math and science and will require a developing understanding in introductory organic chemistry, biochemistry and nuclear chemistry. Students will apply higher order thinking and problem solving throughout the entire course. Students will apply higher order thinking and problem solving throughout the entire course. Grade weight places an emphasis on interactive assignments and activities, discussion questions and practice quizzes. The completion of an algebra course before this course is strongly recommended.

Full Year – 1 credit

Grade 11

10331* Chemistry College Preparatory - Prerequisite: successful completion of Algebra I CP or Algebra I B - In this course, students will discover what chemistry is, how it is found and used all around us. The importance of science to solve real world problems will be investigated. This course includes study in the following areas: types of matter, atomic structure, chemical periodic properties, formula writing, naming, and chemical equations. This course requires an understanding of both math and science and will require a developing understanding of the metric system, measurement and stoichiometry. Students will discover how chemistry is applied all around and within us. The role of chemistry to solve real world problems will be investigated. This course includes study in the following areas: chemical bonding, thermochemistry, and acid and base chemistry. This course will require an understanding of both math and science and will require a developing understanding in organic chemistry, biochemistry and nuclear chemistry. Students will apply higher order thinking and problem solving throughout the entire course. Grade weight places equal emphasis on interactive activities and summative assessment. The completion of an algebra course before this course is strongly recommended.

Full Year – 1 credit

Grade 11

10335* Advanced Inorganic Chemistry Honors – Prerequisites: Completion of Chemistry College Preparatory with an 80% average or higher and successful completion of Algebra II College Preparatory or permission of the principal - This honors course deals with reactions, solutions, kinetics, equilibrium, strong and weak acids and bases. An emphasis is placed on a conceptual and mathematical understanding of these concepts. Additional concepts include oxidation-reduction, units of concentration, colligative properties, rate law, reaction spontaneity, equilibrium relationships from existing and initial conditions, pH, titration and equilibrium acid-base calculations.

Semester Course - .5 credit

Grades 11-12

10334* Advanced Organic Chemistry Honors – Prerequisites: Completion of Chemistry College Preparatory with an 80% average or higher or permission of the principal – This honors course deals with concepts of molecular structure, atomic and intermolecular bonding and the resulting properties of organic compounds. An emphasis is placed on the recognition and classification of major functional groups and the nomenclature and structure of organic molecules. Additional concepts include chemical and physical properties as a function of mass, structure and intermolecular force, isomers, reactions, reaction mechanisms, synthesis and preparation of organic compounds. Grade weight places equal emphasis on interactive activities, formative and summative assessment, including final exam.

Semester Course - .5 credit

Grades 11-12

10317H* Biology Honors – Students will take a look at yet another aspect of what the study of life has to offer. In this course, the focus becomes more specific to living things and the chemistry behind the processes. Students will dive into the structure and function of various plants and animals, including invertebrates and vertebrates. Heredity and molecular genetics will break down the process of gene expression and regulation, biotechnology, and the molecular basis of inheritance. Student will also discover the processes and systems of the human body. Evolutionary biology, Darwinism, history of life, and ecology

wrap up this course. Students will be required to complete formal and informal lab reports, lab simulations, and additional assignments throughout the course that build on the content provided. These assignments, like creating concept maps or researching endangered species, makes these students go above and beyond the curriculum content in creativity and application. The aim of this course is to guide you, the student, to see your world in biological terms, and then to expand your vision to contemplate current topics in biological research and application. Students are required to complete discussion based assessments (DBAs) at the end of each module. **Student must receive proficient or advanced on the Biology Keystone to enroll in this course.**

Full Year – 1 credit

Grades 10-12

10355 Physics - Students begin their exploration of physics by reviewing the International System of Units (SI), scientific notation, and significant digits. They then learn to describe and analyze motion in one and two dimensions. Students learn about gravity and Newton’s laws of motion before concluding the course with an examination of circular motion. Students apply mathematical concepts such as graphing and trigonometry in order to solve physics problems. Throughout the course, students apply their understanding of physics by playing roles like science museum curator and elementary teacher. Physics continues the student’s exploration of mechanics while also guiding them through some other important topics of physics. Students begin by exploring simple harmonic motion, wave properties, and optics. Students then learn the basics of thermodynamics and fluids. Afterwards, the students explore the principles of electricity and magnetism. Finally, students explore the area of physics known as Modern Physics, which includes topics such as the photoelectric effect, and relativity. This is a trig based course. It is assumed you know and can use trigonometry.

Full Year – 1 credit

Grades 9 - 12

10350* Physics College Prep - Prerequisites: Algebra Based Math Course - Students begin their exploration of physics by reviewing the International System of Units (SI), scientific notation, and significant digits. They then learn to describe and analyze motion in one and two dimensions. Students learn about gravity and Newton’s laws of motion before concluding the course with an examination of circular motion. Students apply mathematical concepts such as graphing and trigonometry in order to solve physics problems. Throughout the course, students apply their understanding of physics by playing roles like science museum curator and elementary teacher. Physics continues the student’s exploration of mechanics while also guiding them through some other important topics of physics. Students begin by exploring simple harmonic motion, wave properties, and optics. Students then learn the basics of thermodynamics and fluids. Afterwards, the students explore the principles of electricity and magnetism. Finally, students explore the area of physics known as Modern Physics, which includes topics such as the photoelectric effect, and relativity. This is a trig based course. It is assumed you know and can use trigonometry.

College Preparatory (CP) Physics differs from Physics in that greater emphasis is placed on the skills required for success at the college level. Thus CP students will do more supplemental readings as well as more writing assignments and research. It is recommended that students take this course only if they attained a final average of at least 80 percent in Chemistry CP and Algebra I and II CP.

Full Year – 1 credit

Grades 9 - 12

10327* Marine Science - About 70% of the Earth is covered by water. Even today, much of the world’s oceans remain unexplored. Marine scientists make exciting new discoveries about marine life every day. In this course, students will discover the vast network of life that exists beneath the ocean’s surface and study the impact that humans have on the oceans.

Full Year – 1 credit

Grades 9 - 12

10379 Veterinary Biology - As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course will examine some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases impact not only the animals around us, but at times...we humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues is studied and applied.

Semester Course - .5 credit

Grades 9 – 12

- 10377 Paleontology** – From Godzilla to Jurassic Park, dinosaurs continue to captivate us. In this course, students will learn about the fascinating creatures both large and small that roamed the earth before modern man. Watch interesting videos from experts at The Royal Tyrrell Museum, a leading paleontology research facility, and discover how the field of paleontology continues to provide amazing insight into early life on earth.
Semester Course - .5 credit **Grades 9 – 12**
- 10382 Space Exploration** – In 1961, Yuri Gagarin became the first human to go to space. In 1969, Neil Armstrong became the first human to step on the moon. This comprehensive course will examine the history and future of space travel. Find out how we have put people in space in the past, and what it will take for us to reach new frontiers, including Mars and beyond.
Semester Course - .5 credit **Grades 9 – 12**
- 10186 Forensics I** - Every time a crime is committed, a virtual trail of incriminating evidence is left behind just waiting to be found and analyzed. In Forensic Science II: More Secrets of the Dead, you'll learn even more about the powerful science of forensics and how it has changed the face of crime and justice in our world. You will learn some basic scientific principles used in the lab, such as toxicology, material analysis, microscopy, and forensic anthropology and find out how scientists use everything from insects to bones to help them solve crimes. Discover how advanced techniques and methodical processes can lead to catching even the craftiest criminal. The best way to battle crime these days is not with a weapon, but with science.
Semester Course - .5 credit **Grades 9 – 12**
- 10328 Forensics II** - Fingerprints. Blood spatters. Gunshot residue. If these things intrigue you rather than scare you, Forensic Science I: Secrets of the Dead may be for you. This course offers you the chance to dive into the riveting job of crime scene analysis. Learn the techniques and practices applied during a crime scene investigation and how clues and data are recorded and preserved. You will better understand how forensic science applies technology to make discoveries and bring criminals to justice as you follow the entire forensic process – from pursuing the evidence trail to taking the findings to trial. By careful examination of the crime scene elements, even the most heinous crimes can be solved.
Semester Course - .5 credit **Grades 9 – 12**
- 10386 Forensics: The Science of Crime** - Fingerprints. Blood spatter. DNA analysis. The world of law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that are committed and to catch those individuals responsible for the crimes. Forensic science applies scientific knowledge to the criminal justice system. This course focuses on some of the techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed.
Semester Course - .5 credit **Grades 9 – 12**
- 10381 Astronomy I** - This course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the origin of the universe, the Milky Way, and other galaxies and stars.
Semester Course - .5 credit **Grades 9 – 12**
- 10383 Astronomy II – Prerequisite: Astronomy I** - Building upon the prior prerequisite course, this course presents a variety of subjects that allow the student to become more familiar with the universe. Students will explore the solar system, the sun, comets, asteroids, and meteors as well as become familiar with the concepts of space travel and settlements. Students will also examine the life cycle of stars and the properties of planets.
Semester Course - .5 credit **Grades 9 – 12**

10376 Forestry and Natural Resources - Thriving forests are an essential part of the health of the planet, from our wildlife's ecosystem to providing humans with clean air to lumber and paper products. But forests cannot protect themselves and depend greatly on humans for conservation. Learn more about this meaningful relationship and how environmental policy, land use, water resources, and wildlife management all factor into current forestry issues. Forestry offers diverse professional opportunities, and for those concerned about the environment, it is a great choice.

Semester Course - .5 credit

Grades 9 – 12

WORLD LANGUAGE

10431* Spanish I - ¡Bienvenidos! Welcome! You are about to go on a trip to Spain, Cuba, Colombia and Argentina. As you explore each of these countries, one of our student bloggers will be there to help you learn about each place and its unique characteristics. As you travel to each country, you will learn how to speak Spanish in many practical and useful ways. You will learn how to greet people, introduce yourself, speak about your home, family, school, and community. As you learn basic vocabulary and grammar skills, you will expand upon your knowledge and learn to speak about more complex topics such as shopping, weather, sports, entertainment and leisure activities. New words and phrases will be introduced with pictures, audio clips and examples. You will learn basic Spanish grammar to help you build your fluency and understand the structure of the Spanish language. There will be many opportunities to practice what you learn through interactive practice activities in the form of games, written practice, listening and speaking exercises. You will also explore the cultures of Spain, Cuba, Colombia and Argentina by learning about geography, foods, celebrations, and traditions from each place. Our student bloggers guide you through these countries and help you to appreciate and learn about their diversity. ¡Buen Viaje! Enjoy your trip! Take advantage of your “travels” by sharing what you learn with family and friends!

Full Year – 1 credit

Grades 9 - 12

10432* Spanish II - Are you ready for some more adventure? In Spanish II, you'll travel through Central America and the Caribbean spending time in museums, traffic jams, and even in the hospital. But don't worry, there's a plane waiting to take you back home at the end of your journey. In this course, you'll broaden your Spanish vocabulary and your knowledge of grammar. You'll meet people from many different countries and cultures. While waiting for your plane ride home, you'll also meet some Spanish-speaking people from different parts of the United States. The purpose of this course is to strengthen your Spanish listening, speaking, reading and writing skills. You'll also experience the beauty and expressiveness of a language that is shared by different people and cultures throughout the world.

Full Year – 1 credit

Grades 9 - 12

10433* Spanish III - In Spanish III, students will meet and virtually accompany four teens with Hispanic backgrounds as they learn about and travel to several Spanish-speaking countries. Students have many opportunities to use the Spanish they already know as well as to expand their vocabulary, knowledge of grammar, and experiences with Spanish-speaking countries. The purpose of this course is to provide many experiences where students can use Spanish. Completely immersed in Spanish, students speak, listen, read, write, and collaborate with other students in Spanish this course. They also gain knowledge and perspectives about Spanish-speaking countries and from Spanish-speaking people. Spanish III is a rigorous honors course and is not intended for credit recovery. Students will be challenged and need to have 8-10 hours per week designated to be successful.

Full Year – 1 credit

Grades 10 - 12

BUSINESS

11253 Computer Literacy - Most children can read and write for a while before they are literate. Once they learn to put their skills to work, though, they acquire literacy. It's the same thing with computer literacy. You may know how to do some things on the computer—but to be computer literate, you have to make those skills work for you. That's what you will learn in Computer Literacy, a one-semester course. You will develop your overall understanding of computers and enhance your technical skills in both basic computer functions and in the use of various types of software. You will learn to use various software

applications (word processing, spreadsheet, and presentation software), which are based on Open Office programs unless otherwise noted. You will also learn to navigate the Internet and use e-mail. When studying word processing software, you will write a letter and format documents, create tables and charts, and use other advanced tools. You will learn how to format and use the basic tools and formulas of spreadsheet software.

Semester Course - .5 credit

Grades 9 – 12

10530 Entrepreneurship: Starting Your Business – What does it really take to own your own business? Does the sound of being your own boss make you feel excited or anxious? Either way, Entrepreneurship: Starting Your Business will get you started in the right direction. This course explains the ins and outs of such an enterprise, giving you the confidence needed to be your very own boss. You will discover what is needed to operate a personal business from creating a plan, generating financing, and pricing products to marketing services and managing employees. If you've ever dreamed of being a true entrepreneur but feel daunted by the prospect, this is your chance to learn all you need to know.

Semester Course - .5 credit

Grades 9 – 12

10532 Microsoft Excel – Discover the real-world uses of Microsoft Excel and its impact on business, academic, and personal applications. Move from inserting and manipulating data, to working with tables, charts, graphs, and calculations. Content of this course will also be applicable to the Microsoft Office Suite certification exam.

Semester Course - .5 credit

Grades 9 – 12

10537 Microsoft Word – Learn to effectively and efficiently use one of the most common tools of business, school, and personal correspondence! Discover how to format and style documents using fonts, colors and editing tools, create tables, use bullets and numbering, and insert images. Skills you learn in this course can be applied immediately and prepares you to take the MOS Word certification exam, and content is applicable to the Microsoft Office Suite certification exam.

Semester Course - .5 credit Grades 9 – 12

10511 Accounting - In this semester course, you will explore accounting, including investigating accounting careers. You will learn basic accounting skills and procedures both with and without a computer for general journals, general ledgers, cash payments journals, cash receipts journals, sales journals, accounts payable ledgers, and accounts receivable ledgers. You will also learn how to reconcile a bank statement and to prepare payroll records. This course covers the basic principles of financial accounting for individuals and for companies with attention to both the mathematical formulas and to the ethical side of accounting. Each unit has practical exercises including a project at the end of the unit.

Semester Course - .5 credit

Grades 9 – 12

10730 Coding I: Introduction to Programming - Have you ever wanted to create your own web page or wondered how your favorite websites were built? Maybe you want to know more about how computers and technology are affecting the world around us. In Coding 1a: Introduction to Programming, you will explore the role technology plays in our lives as well as study the fundamentals of computer science, review hardware and software, and learn how the internet functions. You will also discover how to create and build your own website using HTML and CSS and learn basic and complex commands and sequences as you become familiar with programming languages like JavaScript and Python Programming. This course also covers data collection methods, access rights, protocols, and security.

Semester Course - .5 credit

Grades 9 – 12

HEALTH/ PHYSICAL EDUCATION

10626 Health 9 – In this course, students acquire the knowledge and skills they need to lead a healthy life. Semester A focuses on the impact of personal decisions on the student's own health. Students learn how to find, evaluate, and use reliable information related to a variety of health topics. They also study the basic science behind nutrition, exercise, stress, and psychology, and examine how these factors affect a person's overall health. Each lesson in the course guides students in applying what they have learned in

the lesson to their own lives and choices—and gives them a chance to discuss the topic with peers and instructors.

Semester Course - .5 credit

Grades 9 - 12

10628 Anatomy and Physiology I– This course is to expand upon what was learned in your Biology class, while emphasizing the application of this material to human structures and functions. This course begins the study of human beings at the microscopic level and works its way up to an in-depth study of select organ systems. Special emphasis will be placed upon applying and demonstrating the information learned in this course through, not only tests and quizzes, but through special projects and collaboration as well.

Semester Course - .5 credit

Grades 9 - 12

10631 Anatomy and Physiology II – Prerequisite: Anatomy and Physiology I – This course is designed to give the student an understanding of how structure and function are related in the human body. The student will study the human body from the cellular level to the organ system level. All of the major body systems will be studied in great detail. Additionally, biochemistry, cell biology, histology, biotechnology, bioethics, and pathology will also be studied. This course is highly recommended for students seeking a career in science or a health-related profession.

Semester Course - .5 credit

Grades 9 – 12

10617 Physical Education I- Physical Education encompasses learning how to live and maintain a healthy lifestyle. This course covers physical fitness, why it is important, how to have a healthy attitude, and how to stick with a healthy game plan. In this ever-changing world, physical fitness becomes more important and more difficult to find the time for. This course allows the student to discover how to make physical fitness not only a part of their daily life, but also see that it is attainable. This course leads the student to discover healthy behaviors and sets the tone for physical fitness as well as healthy exercise. PE for a Healthy Lifestyle will examine the emotional, physical, and scientific factors that influence physical performance. This course is designed for anyone, ranging from the beginner to advanced abilities.

Semester Course - .5 credit

Grades 9 – 12

10619 Physical Education II- Physical Education encompasses learning how to live and maintain a healthy lifestyle. This course covers physical fitness, why it is important, how to have a healthy attitude, and how to stick with a healthy game plan. In this ever-changing world, physical fitness becomes more important and more difficult to find the time for. This course allows the student to discover how to make physical fitness not only a part of their daily life, but also see that it is attainable. This course leads the student to discover healthy behaviors and sets the tone for physical fitness as well as healthy exercise. PE for a Healthy Lifestyle will examine the emotional, physical, and scientific factors that influence physical performance. This course is designed for anyone, ranging from the beginner to advanced abilities.

Semester Course - .5 credit

Grades 9 – 12

10312 Health Science: The Whole Individual - Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and the measles identified and diagnosed? Health sciences provide the answers to questions such as these. In this course, students will be introduced to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. They will explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

Semester Course - .5 credit

Grades 9 – 12

10313 Health Science II: Patient Care and Medical Services - Are you looking for a job that's challenging, interesting, and rewarding? These three words describe many of the different careers in health care, and Health Sciences II: Patient Care and Medical Services will show you how to become part of this meaningful vocation. Promoting wellness, communicating with patients, and understanding safety in the workplace are just a few of the essential skills you will learn, all the while becoming familiar with some of the more prominent areas in the field, such as emergency care, nursing, infection control, and pediatrics. You'll learn about some of the inherent challenges faced by this age-old profession and how you can become a significant part of the solution.

Semester Course - .5 credit

Grades 9 – 12

- 10314 Health Science: Nursing** - Nursing is an in-demand career, perfect for someone looking for a rewarding and challenging vocation in the healthcare sector. With a strong focus on patient care, a nurse must be skilled in communication, promoting wellness, and understanding safety in the workplace. In Health Science II Nursing, you will explore communication and ethics, anatomy and physiology, and the practice of nursing. Learn how to build relationships with individuals, families, and communities and how to develop wellness strategies for your patients. From emergency to rehabilitative care to advances and challenges in the healthcare industry, discover how you can launch a fulfilling career providing care to others.
Semester Course - .5 credit **Grades 9 – 12**
- 10315 Health Science: Public Health** - What is public health? Who is in control of our health systems and who decides which diseases get funding and which do not? What are the human and environmental reasons for health inequality? Health Science: Public Health answers all of these questions and more. You will study both infectious and non-communicable diseases as well as learn how we conquer these on a community and global level through various methods, including proper hygiene, sanitation, and nutrition. Explore the role current and future technologies play worldwide as well as consider the ethics and governance of health on a global scale. Discover unique career opportunities, and fascinating real-life situations.
Semester Course - .5 credit **Grades 9 – 12**
- 10637 Medicine** - This course provides students with an introduction to healthcare, with emphasis on modern, clinical medicine. Students review basic human anatomy and physiology, then study major health concerns affecting people in the U.S. and the world. This comprehensive, 10-unit course examines such topics as infectious diseases, cancer, traumatic injuries, and healthcare career opportunities.
Semester Course - .5 credit **Grades 9 – 12**
- 10630 Medical Terminology I** - Learning the language is essential for careers in health science. Join word parts to form medical terms, associations within body systems, and better communicate with colleagues and patients. Build your proficiency and confidence with this course and prepare yourself for a career in health sciences.
Semester Course - .5 credit **Grades 9 – 12**
- 10640 Medical Terminology II** – Discover the medical terminology associated with even more body systems to increase your ability to master prefixes, suffixes, and roots. Connect this language to real-world patients and clinical settings through practical applications and specific scenarios. Launch your health knowledge with detailed medical terms.
Semester Course - .5 credit **Grades 9 – 12**
- 10651 Pharmacology** – If you ever thought about pursuing a gratifying career in biomedical sciences, pharmacology is a must. Pharmacology is the fascinating study of the chemistry, origins, and types of medications. Whether you plan on going into medicine, nursing, dentistry, veterinary medicine, or pharmacy, you'll need to learn the effects of medicines on different biological systems, appropriate dosages, and how the body responds to different medications.
Semester Course - .5 credit **Grades 9 – 12**

ART

- 10716 Art in World Cultures** - Art tells a story. Go on a journey of when humans began creating art in prehistoric times to ancient Roman, early Christian, and Medieval periods. Explore the artistic characteristics of the Renaissance, Americas, Baroque, Romantic, and more. Learn the elements and design principles of art, and about some of the greatest artists in the world, while creating your own art, both on paper and digitally. It's time to tell your story through art.
Semester Course - .5 credit **Grades 9 – 12**
- 10741 Digital Media I** - Discover your talent for building digital media applications using text, graphics, animations, sounds, videos, and more! Learn about the elements that make impressive media, such as

typography, color theory, design, and manipulation. Explore careers to apply your digital media skills and find your place in this fast-paced and exciting field!

Semester Course - .5 credit

Grades 9 – 12

- 10740 Animation** - Do you wonder what it would be like to create the next blockbuster animated movie or do you want to make the next big video game? Do you have an eye for drawing, technology, and timing? If so, Animation is the course for you! You will learn how to use animation tools to conceptualize and bring your creations to life. You'll learn the ins and outs of creating 2D and 3D animation, from start to finish. You'll even begin working on our own design portfolio and get hands on experience with creating your own animation projects. Learning about Animation could lead to a thriving career in the growing world of technology and animation.

Semester Course - .5 credit

Grades 9 – 12

FAMILY / CONSUMER SCIENCE

- 10770 Personal and Family Finance** - How do our personal financial habits affect our financial future? How can we make smart decisions with our money in the areas of saving, spending, and investing? This course introduces students to basic financial habits such as setting financial goals, budgeting, and creating financial plans. Students will learn more about topics such as taxation, financial institutions, credit, and money management. The course also addresses how occupations and educational choices can influence personal financial planning, and how individuals can protect themselves from identity theft.

Semester Course - .5 credit

Grades 9 - 12

- 10771 Life Management Skills** - What does it mean to be healthy? In the simplest terms, it means taking care of our body and mind. Explore the connections between your physical, mental, and social health. Learn how to promote better health by decreasing stress and finding a fuller vision for your life through lifestyle choices, interactions with others, healthcare, and making sensible dietary choices. Build your plan to ensure your overall health, happiness, and well-being!

Semester Course - .5 credit

Grades 9 – 12

- 10772 Life Skills: Navigating Adulthood** - What do you want out of life? How do you achieve your dreams for the future? These can be difficult questions to answer, but with the right tools, they don't have to be. This course will encourage you to learn more about yourself and help you to prepare for the future. You will explore goal setting, decision making, and surviving college and career. You will also discover how to become a valuable contributing member of society. Now is the time to take action. It's your life, make it count!

Semester Course - .5 credit

Grades 9 – 12

- 10776 Real World Parenting** - Do you love children? Maybe you dream of being a parent someday. But perhaps you are also asking yourself, just how, exactly, do you learn to parent? Learning how to care for children while teaching them confidence and accountability is not an easy feat. In Real-World Parenting, you'll learn that being a parent is much more than simply feeding, bathing, and protecting a child. Creating a positive environment, nurturing, fostering education, and serving as a role model are all critical aspects as well. You'll learn how to be a positive force in the development of your future children as well as others around you.

Semester Course - .5 credit

Grades 9 – 12

- 10786 Culinary Arts I - Introduction** - Thinking of a career in the foodservice industry or looking to develop your culinary skills? Explore basic cooking and knife skills while preparing you for entry into the culinary world. Discover the history of food culture, food service, and global cuisines while learning about food science principles and preservation. Prepare for your future by building the professional, communication, leadership, and teamwork skills that are crucial to a career in the culinary arts.

Semester Course - .5 credit Grades 9 – 12

MUSIC

- 10861 Music Appreciation** - Have you ever heard a music piece that made you want to get up and dance, sing, or even cry? Regardless of the genre, music moves us. Explore the elements and pieces of music. And learn through the historical context, musicians and composers, and influence of music from the Middle Ages to the 21st century, on how to listen and really hear the different music that makes up our world.
Semester Course - .5 credit **Grades 9 – 12**
- 10862 Guitar I** - Have you ever dreamed of playing the guitar? Whether you love music, want to play guitar for your family and friends, or desire to be a music star, this course is a great place to start. No prior music experience is needed. You will learn the fundamentals of music and the basic skills necessary to play a wide variety of music styles. Student guides, Carlos and Ariel, will guide you through each step of this journey towards becoming a skilled guitarist and musician. This course can be used as a performing/fine arts credit to meet the art requirement for high school graduation. You will need a playable six-string guitar and a way to record and submit a video performance to your instructor. A guitar is “playable” if it is the correct size for the guitarist, is easy to press the strings down against the frets, and plays in tune up and down the fretboard. There are three common types of six-string guitars: classical, steel string, and electric. If you do not already have a guitar, you may want to seek the advice of an experienced guitarist, a guitar teacher, or your local music store. Most guitars are built to be played right-handed, so that the right hand would pluck the strings and the left hand would press the strings down against the frets. Many left-handed guitarists play right-handed guitars. Many guitarists and teachers recommend that left-handed students try playing on a right-handed guitar when first learning. There are some guitars available that are built to be played left-handed. This course is taught using a right-handed guitar. Students choosing to use a left-handed guitar will need to adjust accordingly. Must have a guitar to enroll.
Semester Course - .5 credit **Grades 9 – 12**
- 10863 Guitar II – Prerequisite Guitar I** - Are you ready to take your guitar playing to the next level? Whether you want to play guitar for your family and friends, desire to be a professional performer, or just love playing music, this course is a great place to continue your journey towards musical excellence. You will build on the fundamentals of music and the basic skills necessary to play a wide variety of music styles. Student guides, Carlos and Ariel, will guide you through each step of this journey towards becoming a skilled guitarist and musician. This course can be used as a performing/fine arts credit to meet the requirements for certain high school graduation tracks. You will need a playable six-string guitar and a way to record and submit a video performance to your instructor. A guitar is “playable” if it is the correct size for the guitarist, is easy to press the strings down against the frets, and plays in tune up and down the fretboard. There are three common types of six-string guitars: classical, steel string, and electric. If you do not already have a guitar, you may want to seek the advice of an experienced guitarist, a guitar teacher, or your local music store. Most guitars are built to be played right-handed, so that the right hand would pluck the strings and the left hand would press the strings down against the frets. Many left-handed guitarists play right-handed guitars. Many guitarists and teachers recommend that left-handed students try playing on a right-handed guitar when first learning. There are some guitars available that are built to be played left-handed. This course is taught using a right-handed guitar. Students choosing to use a left-handed guitar will need to adjust accordingly. Must have a guitar to enroll.
Semester Course - .5 credit **Grades 9 – 12**
- 10865 Piano I** - The piano is often described as the musical instrument that provides beginning musicians with the most logical representation of how music works. For the beginning or the experienced musician, piano keyboard skills are both valuable and enjoyable. High School Piano 1 is an entry level course for students wishing to learn fundamental techniques for playing the piano, while developing the ability to read music and understand basic concepts of music theory. Students will learn to play both familiar and original tunes and songs on the piano using standard music notation. Techniques used in music improvisation and composition are also explored. No prior music background is required. No prerequisites are required. Must have your own keyboard or piano to enroll.
Semester Course - .5 credit **Grades 9 – 12**

TECHNOLOGY EDUCATION

- 10728 Foundations of Game Design I** - Does your love of video games motivate you to pursue a career in this field? Pursue your passion by learning about the principles of game design through the stages of development, iterative process, critiques, and game development tools. Put these new skills to work by designing your own game!
Semester Course – .5 credit **Grades 9 – 12**
- 10725 Concepts of Engineering and Technology** - Learn how the momentum of science is continually propelling engineers in new directions towards a future full of insight and opportunity. Explore the different branches of engineering and how problem-solving, sketching, collaboration, and experimentation can change the very fiber of our human lives. By examining astounding engineering feats and complex ongoing issues, you'll begin to question whether the word impossible really exists.
Semester Course – .5 credit **Grades 9 – 12**
- 10769 The History of Gaming and Esports** - In this course, students will learn about the technologies and design principles that have been the foundation of the development of video game technology over the last 50 years. Students will examine and discuss the impact of video games on culture and the economy. Students will learn about the current gaming and e-sports landscape, including strategies and techniques of top teams and individuals. This course will also discuss the risks and dangers of video games and understand how to set appropriate time and content parameters. Finally, the course will identify career paths and opportunities for those who are passionate about gaming.
Semester Course – .5 credit **Grades 9 – 12**
- 10743 Robotics: Applications and Careers** - It seems like many elementary to high school robotics courses are focused on coding a simple robot to move its mechanical arm up and down. This course, in contrast, teaches students what a robot is and how it relates to other key technologies such as artificial intelligence and machine learning. Then the course examines 10 applications of robots and how they will change and impact various aspects of our lives and the economy. Will robots simply steal our jobs, or will they be a tool that will create new opportunities and even free humans to use our creativity and curiosity to their full potential? Students will grapple with this and many other questions as they explore this vital, future focused subject.
Semester Course – .5 credit **Grades 9 – 12**
- 10767 Augmented and Virtual Reality Applications** - Separating hype from reality is hard... especially in the fast-growing and evolving space of augmented and virtual reality (AR/VR). Recent advances in technology has allowed AR/VR systems to become extremely sophisticated and realistic. This course introduces students to the technologies that underpin AR/VR systems. Then the course walks through 5 applications of AR/VR and how they will change and impact numerous aspects of our lives and the economy. Students will also learn about and discuss the risks and side effects of these systems, including health, privacy, and ethical implications.
Semester Course – .5 credit **Grades 9 – 12**

STEM INNOVATION ACADEMY

The STEM Innovation Academy is richly-provisioned for advanced technology studies as well as general academics and career exploration. The STEM Innovation Academy has two career pathways: Engineering and Industrial Technology and Arts and Communications. The Engineering and Industrial Technology is organized around eight areas of core technological competency. These are: Circuitry, Computer Graphics, Digital Communications, Mechanics and Structures, Robotics and Control Technology, Scientific Data and Analysis, Software Engineering and Sustainability. While the Arts and Communication pathway focuses on Film and Television, Acting and Directing for the Screen, News Broadcasting, Esports Marketing, and Video Production. Students will learn filmmaking while becoming purposeful storytellers and they will master the techniques needed to create content that entertains. This

pathway will also help young content creators leverage advertising, marketing, and social media. Students will use their newly learned skills to produce an experience, not just a product through the capstone project.

Engineering and Industrial Technology Pathway

The WCSD Engineering and Industrial Technology Pathway will explore the eight systems of technology. Students will then be provided an in-depth exploration of robotics and control technology. Students will utilize a variety of robotics systems to design, build, and program robots to solve relevant challenges. It will go also go beyond the scope and sequence of robotics and allow students to explore other engineering and industrial aspects such as 3D Design, fabrication, coding and programming, as well as drone technology. This pathway is specifically designed to build upon the skills developed in the SmartLab and to allow students to explore potential career interests.

Grades 10 – 12

Arts and Communication Pathway

The WCSD Arts and Communications Pathway is to provide an in-depth exploration of computer graphics, digital communications, and TV studio hands-on experience. Within this pathway, students capture and create media in a variety of formats. Students will use a range of technology and software. Through this pathway students will have an introduction to film and television, learn film and television production, acting and directing for the screen, news broadcasting, marketing esports, video production, and the digital media arts. This pathway is specifically designed to build upon these skills and to allow students to explore potential career interests in these fields.

Grades 10 – 12