

UNITED SENIOR HIGH SCHOOL

GRADES 9-12

Course Planning Guide



2022-2023

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Yearly availability of each course listed in this guide is dependent upon the number of student requests for that course and limitations of the high school schedule. Credit value is based on a 5-days per week class schedule.

United High School Guidance Department

The Guidance Department provides a variety of services to students, parents, teachers, administration, and the community. The guidance office is the hub of all pupil-related matters except discipline, health, and attendance. The services are as unique as the individual student's needs.

The office is open daily from 7:30 am until 3:30 pm. Whenever possible, parents should schedule an appointment in advance with the counselor. Guidance Office extension is:

Mr. Todd Surloff, Jr./Sr. High School Counselor ext 2338

Grading

United High School uses a percentage grading system with the following letter grade equivalents:

93 - 100 % A
85 - 92% B
77 - 84% C
70 - 76% D
69% and below F

Advanced Placement (AP) and honors course percentage values will be adjusted in the student's GPA to reflect the United School District's course weighting policy as detailed in the following section.

Other report card grade identifications used:

P Pass
F Fail
I * Incomplete
W Withdrawal from course
WF** Withdrawal/failure
X Medical excuse from Physical Education

* The student will have five (5) days after report cards are issued to complete and submit coursework to the teacher. Failure to adhere to this schedule will result in the incomplete grade being changed to an "F."

** Withdrawal from course after five (5) days.

United School District Weighted Grades Guidelines

Additional weight will be given to “Honors” and “Advanced Placement” courses. A weighting factor of 1.04 will be applied to Honors courses. A weighting factor of 1.07 will be applied to Advanced Placement courses. Only grades of C or better will be given a weighting factor. Weighting is applied only to GPA calculation.

Graduation Requirements

The presentation of a high school diploma is contingent upon fulfillment of all Board of Education and Pennsylvania Department of Education requirements, district policy and completion of the graduation project.

Advancement is as follows:

- A student must earn 6 credits to be considered a sophomore.
- A student must earn 12 credits to be considered a junior.
- A student must earn 18 credits to be considered a senior.

A student must earn a minimum of 24 credits, which include 4 credits of English, 4 credits of Math, 4 credits of Social Studies, and 3 credits of Science. Additionally, beginning with the class of 2022-23, students must successfully complete one of the five options for graduation outlined in Act 158.

Subject area requirements are:

Grade 9		Grade 10	
English	1.0 credit	English	1.0 credit
Social Studies	1.0 credit	Social Studies	1.0 credit
Math	1.0 credit	Math	1.0 credit
Science	1.0 credit	Science	1.0 credit
Intermediate Computer Applications	0.5 credit	Adv. Comp. Apps.	0.5 credit
Healthy Living 9	0.5 credit	First Aid/CPR	0.25 credit
Drafting/CAD9	0.25 credit	General Music	0.25 credit
Wood Productions	0.25 credit	Entrepreneurship	0.5 credit
Family Consumer Science 9	0.25 credit	Career Ed. 10	0.5 credit
Art 9	0.25 credit	Elective Courses	1.0 credit
Elective Courses	1.0 credit		
Total	7.0 credits	Total	7.0 credits
Grade 11		Grade 12	
English	1.0 credit	English	1.0 credit
Social Studies	1.0 credit	Social Studies	1.0 credit
Math	1.0 credit	Math	1.0 credit
Science	1.0 credit	Science (optional, 3 credits required)	1.0 credit
Elective Courses	3.0 credit	Elective Courses	3.0 credit
Total	7.0 credit	Required Course Total	7.0 credit
Students are required to schedule a minimum of 7 credits per year.			
Electives selected in grades 10-12 must include an additional P.E. (0.5 credit) prior to graduation. Students who attend ICTC, the Penns Manor Vo-Ag program, or possessing an IEP will have different requirements.			

The new Graduation Pathways beginning with the Graduating Class of 2023

Beginning in the 2022-23 school year, the statewide graduation requirement will apply in addition to the locally established policies and requirements.

Students can meet the statewide graduation requirement by:

- Keystone Proficiency Pathway: Scoring proficient or advanced on each Keystone Exam – Algebra, Literature and Biology.
- Keystone Composite Pathway: Earning a satisfactory composite score of 4452 on the combination of the three Keystone Exams.
- Alternative Assessment Pathway: Earning a passing grade in the courses associated with each Keystone Exam on which the student did not achieve proficiency AND one of the following:
 - Attainment of an established score on an alternative assessment (SAT, PSAT, ACT, ASVAB);
 - Attainment of an established score on an AP exam in an academic content area associated with each Keystone Exam in which a student did not achieve at least a proficient score;
 - Successful completion of a Dual Enrollment course in an academic content area associated with each Keystone Exam in which a student did not achieve at least a proficient score,
 - Successful completion of a pre-apprenticeship program; or
 - Acceptance in an accredited 4-year college or university.
- Evidence Based Pathway: Earning a passing grade in the courses associated with each Keystone Exam on which the student did not achieve proficiency AND demonstration of three pieces of evidence consistent with the student's goals and career plans, including: One of the following:
 - Attainment of an established score on the SAT subject test, or an Advanced Placement Program Exam;
 - Acceptance in an accredited 4-year nonprofit institute of higher education and evidence of the ability to enroll in college-level coursework;
 - Attainment of an industry-recognized credential; or
 - Acceptance in an accredited 4-year college or university; and

Two additional pieces of evidence including; one or more of the options listed above, or satisfactory completion of a service learning project; attainment of a score of proficient or advanced on a Keystone Exam; a letter guaranteeing full-time employment; a certificate of successful completion of an internship or cooperative education program; or satisfactory compliance with the NCAA's core courses for college-bound student athletes with a minimum grade point average (GPA) of 2.0.

- CTE Pathway: Earning a passing grade in the courses associated with each Keystone

- Attainment of an industry-based competency certification related to the CTE Concentrator's program of study or demonstration of a high likelihood of success on an approved industry-based competency assessment or readiness for continued meaningful engagement in the CTE Concentrator's program of study.

State Assessments

The Keystone Exams are end-of-course assessments designed to evaluate proficiency in academic content. Beginning with the class of 2022–2023, students must demonstrate proficiency on the Algebra I, Literature, and Biology Keystone Exams to graduate or fulfill one of the other pathways provided to graduate. Students will be offered multiple opportunities to take the keystones throughout their high school career. The trigger courses associated with the Keystone Exams are Algebra I, English 10, and Biology I.

Additionally, as per Act 35 of 2018, each school entity shall administer at least once to students during grades seven an assessment of U.S. history, government and civics that includes the nature, purpose, principles and structure of U.S. constitutional democracy, the principles, operations and documents of U.S. government and the rights and responsibilities of citizenship. Students enrolled in Government/Civics or Honors Government/Civics will be administered the United States Citizenship and Immigration Services Test to satisfy the requirements of Act 35.

Dual Enrollment

Dual enrollment provides students the opportunity to earn college credits while in high school for a fraction of the cost. Currently Indiana University of Pennsylvania (IUP), Mount Aloysius, Penn Highlands, St. Francis and Westmoreland County Community College partner with United School District in offering dual enrollment opportunities to our students.

- Indiana University of PA offers qualifying students an opportunity to take courses at IUP or online at a significant discount or free of charge.
- Mount Aloysius offers students taking approved courses college credit if they earn a “C” or better and maintain an overall GPA of 3.0 or higher. Approved Course includes: AP Chemistry, AP Biology, AP Physics and/or Honors Human Physiology
- Penn Highlands offers students taking approved courses college credit if they earn a “C” or better and maintain an overall GPA of 3.0 or higher. Approved Course includes: AP Economics, AP Calculus, Intermediate Computer Applications, College Algebra with Trigonometry, Honors Government/Civics, Government/Civics, Honors US History I, US History II, Biology, Honors Biology I, and Honors Algebra II/Trig, Honors Chemistry I, Honors Chemistry II, Painting & Ceramics, and French III/IV
- St. Francis offers students taking approved courses college credit if they earn a “C” or better and maintain an overall GPA of 3.0 or higher. Approved Course includes: Honors Pre-Calculus, Pre-Calculus, Physics, AP Physics I, and Probability & Statistics

- Westmoreland County Community College offers students taking approved courses college credit if they earn a “C” or better and maintain an overall GPA of 3.0 or higher. Approved Course includes:
French III, French IV, Pre-Calculus, Honors Pre-Calculus, Probability and Statistics

Cost for college credits vary with institution. Students should check with colleges and universities of their choice to determine how earned credits will be transferred.

AP (Advanced Placement) Courses

All students registered for an AP course will be required to:

- complete a pre-assignment, which must be completed for the first day of class ·
- take the AP College Exam at United High School

Students should check with their respective colleges on transferring credits and/or accepting AP Courses.

Drop/Add Policy

Students should be very careful and thorough when selecting their courses of study. Students are expected to complete ALL selected courses.

Approved criteria for schedule changes:

- computer error
- to meet credit requirements
- to meet prerequisite requirements
- to replace study halls

A course may be dropped or added within the first five (5) days of the course start date. This is subject to parent, teacher, and guidance counselor approval, as indicated on a completed drop/add form.

Dropping a Course:

- After the first five (5) days of class, if a course is dropped, the student may not substitute another course and will be scheduled for a study hall.
- A course may be dropped within the first five days of the course start date without penalty. After the first five (5) days, the student will receive a “WF” for dropping a course. This WF will appear on the student’s permanent transcript.

Adding a Course:

- If a student adds a course after the first day of class, the teacher may require the student to complete all missed class work and assignments.

Upon receipt of the students’ schedule, students should:

- examine their schedule for accuracy
- contact the guidance office with requests for schedule changes

Alternative Instruction Methods (Policy 124)

The Board may grant credit toward high school graduation for course work successfully completed through approved summer school, correspondence courses, distance learning, Internet, dual enrollment and other forms of alternative course work in accordance with adopted policy. A maximum of six (6) units of credit may be counted toward the requirements for a student's high school graduation.

The course subject must be included in the high school's planned instruction and relate to academic standards. To qualify for approval, the content must be substantially equivalent to that of the district high school course. The number of credits assigned to course work taken through an alternative delivery method shall be predetermined by the building principal and/or guidance counselor as part of the approval process before course work is begun.

The student shall receive the same letter grade for high school credit that is assigned by the alternative education resource. The assigned student grade for successfully completed work shall not be weighted for purposes of computing the student's grade point average, unless prior approval has been granted by the administrator and/or guidance counselor before the course work was begun.

Correspondence Courses

A student enrolled in a correspondence course may receive high school credit for work completed, provided:

- The course is given by an accredited institution approved by the Superintendent or designee.
- The student is in good academic standing.
- The student assumes responsibility for all fees.
- The building principal approves the course in advance.

Distance Learning/Virtual/Online Courses

A student enrolled in a distance learning course, including a virtual or online course, may receive high school credit for work completed, provided:

- The course is offered by an institution approved by the Superintendent or designee. ·
The course is not offered at the student's high school.
- The student assumes responsibility for all fees including tuition and textbooks. ·
The building principal approves the course in advance.

Grades earned in approved distance learning courses count toward a student's grade point average, class rank, and eligibility for athletic and extracurricular activities. The district may pay the fee for expelled students who are permitted to take virtual or online courses in alternative settings.

Foreign Exchange Programs

District students shall receive high school credit for foreign exchange courses that meet the criteria established in the curriculum and are approved by the building principal. International study course work not meeting district requirements may be placed in the student's permanent record and recorded as an international study experience.

College Courses (Except Dual Enrollment)

A student who successfully completes college courses may receive high school credit, provided:

- The student is in good academic standing.
- The course is not offered in the high school curriculum.
- The course is approved in advance by the student's guidance counselor and the high school principal.
- The student assumes responsibility for all fees.

Independent Study (Policy 118)

The Board shall consider the approval of a course of independent study for a properly qualified student, as recommended by the Superintendent, on the condition that the student will demonstrate achievement of established academic standards as a result of participation in the independent study.

The purposes of independent study shall be to:

- Extend the learning experience of the classroom.
- Develop a student's judgment and self-reliance in the conduct of the learning experience.
- Relate academic knowledge to the world of work and learning beyond the school.
- Draw upon community resources as well as school resources for a student's educational program.
- Include a greater variety of learning experiences within the educational program.
- Identify and explore an area of particular interest.
- Set personal learning goals and work toward achieving them, with appropriate staff guidance.
- Learn to utilize various research tools and methods.

Sports/Extracurricular Eligibility

To be eligible for interscholastic athletic competition or extracurricular activities, a student must maintain Academic eligibility as per Board Policy 123.

Vocational Agriculture

The United School District partners with the Penns Manor Area School District for vocational agriculture education. United students have the ability to attend Penns Manor for a half-day program similar to the system already in place with the Indiana County Technology Center for other vocational programs.

NCAA Eligibility

In order to be eligible to compete as a student athlete as a freshman in college, students will need to make certain that they meet the academic eligibility and core course requirements of the NCAA. Whether students hope to compete at the Division I, II, or III level, they must realize that it is not just athletic talent that determines participation. Just as important, if not more, are the academic requirements that relate to the course schedule students carry every year in high school. The NCAA requires 16 core courses for Division I and Division II schools. Further information is available at the NCAA Eligibility Center at eligibilitycenter.org or ncaa.org. NCAA eligibility will be noted on each course listed in the curriculum guide, which has been approved by the NCAA.

English

Department

ENGLISH-9 #666 Year Long Credit 1 Grade 9 NCAA Approved

This course focuses on the study of the elements of literature across a variety of genres. Additional study includes understanding and identifying literary devices and terminology. Utilizing literature selections as the focus, students will improve their writing skills, practicing standard conventions by producing compositions and personal writings as a means to both learn and communicate what has been learned.

Prerequisite: None

HONORS ENGLISH-9 #664 Year Long Credit 1 Grade 9 NCAA Approved

Honors classes are design to be more challenging, a preparation for a college career. This course will take an in-depth study of the elements of literature across a variety of genres. Additional study includes understanding and identifying literary devices and terminology. Utilizing literature selections as the focus, students will improve their writing skills, practicing standard conventions by producing compositions and personal writings as a means to both learn and communicate what has been learned.

Prerequisite: Honors enrollment is based on three criteria: cumulative skills assessment, teacher recommendation, and classroom performance.

ENGLISH-10 #694 Year Long Credit 1 Grade 10 NCAA Approved

This course focuses on the study of the elements of literature across a variety of genres. Additional study includes understanding and identifying literary devices and terminology. Utilizing literature selections as the focus, students will improve their writing skills, practicing standard conventions by producing compositions and personal writings

as a means to both learn and communicate what has been learned.

Prerequisite: None

HONORS ENGLISH-10 #696 Year Long Credit 1 Grade 10 NCAA Approved

This course covers the same concepts as English-10 but in greater depth and at a quicker pace. The Honors English 10 curriculum intensifies the study by examining multiple examples of each genre as well as giving the students opportunities to work independently to produce identified outcomes. Utilizing literature selections as the focus, students will refine their writing skills, practicing standard/formal conventions, by producing compositions and personal writings as a means to both learn and communicate what has been learned.

Prerequisite: To continue in the honors program a student is required to successfully complete Honors English 9 with a grade of "B" or higher. To transfer into the honors program, a student must attain an "A" in English 9 as the final grade and the recommendation of the English 9 teacher.

ENGLISH-11 #697 Year Long Credit 1 Grade 11 NCAA Approved

Students will read to interpret and analyze a variety of American literary works. American literature samples will range from colonial to modern times and will include short stories, poetry, nonfiction pieces, and novels. Students will also compose different styles and types of writing, including a formal research paper. Areas of study will also include reading comprehension, vocabulary development, grammar, usage, mechanics skills, and, depending on the needs of the class, research writing and public speaking. All areas of communication (reading, writing, speaking, and listening) will be studied with an emphasis on the development of reading strategies, writing skills, and critical thinking skills.

Prerequisite: None

HONORS ENGLISH-11 Year Long
 Grade 11
#1067
 Credit 1
 NCAA Approved

This course covers the same concepts as English-11 but in greater depth and at a quicker pace. Using the historical context as a springboard for discussion, students will read, interpret, and analyze some of the most significant works of American literature. Students will continue to refine their speaking and writing skills, practicing standard conventions by producing speeches, formal compositions, and personal writings, as a means to both learn and communicate what has been learned.

Prerequisite: To continue in the honors program a student is required to successfully complete Honors English 10 with a grade of “B”. To transfer into the honors program, a student must attain an “A” in English 10 as the final grade and the recommendation of the English 10 teacher.

ENGLISH-12 #699 Year Long Credit 1 Grade 12
 NCAA Approved

This course focuses on a variety of genres from seminal texts and will include short stories, poetry, drama and novels. Students will read to interpret and analyze literature as well as compose different types of writing, including argumentative and research. Students will develop speaking and listening skills through debates, formal and informal presentations and discussions. At all times standard conventions must be practiced and utilized.

Prerequisite: None

JOURNALISM #166/1477 1-Semester Credit 0.5
 Grades 9-12 NCAA Approved

This course is designed to offer instruction to those students who express an interest in news writing.

Prerequisite: None

AP LITERATURE AND #167
COMPOSITION

Year Long Credit 1 Grade 11-12
 NCAA Approved

This is an approved Advance Placement (AP) College Board course. Through the close reading of selected texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students will consider a work’s structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone.

All students will be required to take the AP Exam; a final exam may be given at the discretion of the teacher.

Prerequisite: To continue in the honors program a student is required to successfully complete Honors English 11 with a grade of “B”. To transfer into the honors program, a student must attain an “A” in English 11 as the final grade, and the recommendation of the English 11 teacher.

All students must complete a prerequisite assignment before the first day of class.

CREATIVE WRITING #228/1475 1-Semester
 Credit 0.5 Grades 9-12 NCAA Approved

This course is designed to provide an opportunity for students to explore a variety of genres in writing, experiment with numerous techniques used by effective writers, and ultimately develop their own writing styles.

Prerequisite: None

INTRODUCTION TO POETRY #555/1476 1-
 Semester Credit 0.5 Grades 9-12 NCAA Approved

This course is designed to provide students with an introduction to the study and appreciation of poetry as a literary art.

Prerequisite: None

Mathematics Department

ALGEBRA I #416 ALGEBRA B # 1571

Year Long Credit 1 Grades 9-10 NCAA Approved

This course is the study of patterns and relationships. Topics covered include, but are not limited to, operations with real numbers, solving linear equations and inequalities, simplifying polynomials, exponents and radicals, and graphing functions. Additional concepts include geometry, data analysis, probability, and statistics. Problem solving opportunities will be emphasized throughout the course.

Prerequisite: None

ALGEBRA A # 1539 Year Long Credit 1 Grades 9 NCAA Approved

This course is the first class in the series of Algebra A/B. Topics covered include, but are not limited to, operations with real numbers, solving linear equations and inequalities, and simplifying polynomials. Problem solving opportunities will be emphasized throughout the course.

Prerequisite: Teacher recommendation
Year Long Credit 1 Grades 10 NCAA Approved

This course is the second class in the series of Algebra A/B. Topics covered include, but are not limited to, concepts of functions, linear equations (slope and y intercept), non-linear equations, analyze and interpret data, coordinate geometry, probability. Problem solving opportunities will be emphasized throughout the course.

Prerequisite: Algebra A and teacher recommendation

GEOMETRY #437 Year Long Credit 1 Grades 10-11 NCAA Approved

This course is a balance of theory and application. Students will explore formal proof, deductive and inductive reasoning as well as indirect proofs. Spatial geometry concepts are included with plane geometry. Algebraic skills are reinforced and strengthened through problem solving. The course includes topics on points, lines, planes, parallel lines, congruent triangles, circles, areas of plane figures, areas and volumes of solids, and basic trigonometry.

Prerequisite: Algebra I

HONORS GEOMETRY #738 Year Long Credit 1
Grades 9 NCAA Approved

This course is intended for mathematically talented students. Topics are covered in considerable depth and at a rigorous pace. Students will study formal proofs, deductive and inductive reasoning as well as indirect proofs. Spatial geometry concepts are included with plane geometry. Algebraic skills are studied in greater depth through geometric problem solving. The course includes topics on lines, planes, parallel lines, congruent triangles, circles, areas of plane figures, areas and volumes of solids, and basic trigonometry.

Prerequisite: To enter the honors program, a student must receive an A in the Algebra I course and receive the recommendation of the Algebra I teacher.

ALGEBRA II #425 Year Long Credit 1 Grades 9-12
NCAA Approved

This course maintains and extends the concepts presented in Algebra I. The content includes linear (equations and inequalities), quadratic, exponential, logarithmic, radical and rational functions as well as coordinate geometry, problem solving, and the study of conic sections.

Prerequisite: Algebra I

COLLEGE ALGEBRA WITH TRIG #670 Year
Long Credit 1 Grades 11-12 NCAA Approved

This course emphasizes linear, quadratic, and polynomial functions, as well as trigonometric functions, algebraic and trigonometric models and their graphs. Graphing technology is integrated throughout all course content. Additional topics include: trigonometric identities, the unit circle, inverse trigonometric functions, the sine and cosine laws, and additional enhancements in statistics and probability.

Prerequisites: Algebra II and Geometry
HONORS ALGEBRA II and TRIG #1002 Year
Long Credit 1 Grades 10-11 NCAA Approved

This course is designed for the more talented college bound students. Greater emphasis will be placed on the language of mathematics and the theory that drives a given process than in previous algebra courses. Students will study a wide range of equalities and inequalities, polynomial, exponential and logarithmic functions, probability and statistical topics, and will analyze models and graphs of conics sections. Trigonometric topics that will be covered include trigonometric functions and their graphs, identities, and the laws of sine and cosine. A student's ability to develop and use formulas will be critical to their success in this course. Students will be required to explore multiple problem solving strategies and apply the skills they have developed.

Prerequisite: To continue in the honors program, a student is required to successfully complete Honors Geometry with a grade of "B" or higher and a minimum of "B" on the final exam. To transfer into the honors program, a student must attain an "A" in Geometry as the final grade, an "A" on the final exam, and the recommendation of the Geometry teacher.

PROBABILITY & STATISTICS #456 Year Long

Credit 1 Grades 11-12 NCAA Approved

numerical problems. Also, the ideas of statistics will be applied to a variety of subject areas.

This course focuses on elementary probability and statistics. Statistics will be used to solve everyday situations and other

Prerequisite: Algebra II and Geometry

PRE-CALCULUS #671 Year Long Credit 1 Grades 11-12 NCAA Approved

This course emphasizes the meaningful development of concepts and the application of mathematics to the solution of realistic problems. Topics include an extension of Trigonometry, with emphasis on trigonometric identities and the graphs of trigonometric functions. Additional topics include: polynomial, rational, and logarithmic functions, an introduction to limits and derivatives, and additional enhancements in statistics and probability. Graphing technology is integrated throughout all course content.

Prerequisite: College Algebra with Trigonometry or Honors Algebra II/Trig

HONORS PRE-CALCULUS #1068 Year Long Credit 1 Grades 11-12 NCAA Approved

This course places greater emphasis on the language of mathematics and the theory that drives a given process than in previous mathematics courses. Students will study a wide range of topics such as exponential and logarithmic functions, trigonometric identities and formulas, properties of vectors, models and graphs of conics sections, parametric equations, polar equations, and limits. Students will be required to explore multiple problem solving strategies and apply the skills they have developed.

Prerequisite: To continue in the honors program a student is required to successfully complete Honors Algebra II and Trig with a grade of "B" or higher. To transfer into the honors program, a student must attain an "A" in College Algebra with Trig as the final grade, and the recommendation of the College Algebra with Trigonometry teacher.

AP CALCULUS #454 Year Long Credit 1 Grades 11-12 NCAA Approved

This is an approved Advance Placement (AP) College Board course. Calculus enables the mathematician to solve many problems that Algebra alone cannot solve. Calculus is the mathematics of change-velocities and accelerations. Calculus is also the mathematics of tangent lines, slopes, areas, volumes, arc angles, centroids, curvatures, and a variety of other concepts that have enabled scientists, engineers, and economists to model real life situations. In this course, differential and integral calculus will be covered with an emphasis on limits.

All students will be required to take the AP Exam; a final exam may be given at the discretion of the teacher.

Prerequisite: To continue in the honors program a student is required to successfully complete Honors Pre Calculus with a grade of "B". To transfer into the honors program, a student must attain an "A" in Pre-Calculus as the final grade, and the recommendation of the Pre Calculus teacher.

All students must complete a prerequisite assignment before the first day of class.

MATH 12 #1365 Year Long Credit 1 Grades 12 NCAA Approved

This course is designed to refine mathematics skills needed to be effective in problem solving and to foster a firm understanding of practical mathematics and personal finance.

Prerequisite: Algebra I, Algebra II, Geometry and the recommendation of the grade 11 mathematics teacher and/or administration.

Computer Science

COMPUTER SCIENCE I #815 COMPUTER SCIENCE II #380 Year Long Credit 1 Year Long Credit 1
Grades 9-12 Grades 10-12

This course deals with the mechanics of the machines involved. The students will disassemble and build working computers from parts. How each of these parts creates the whole will be discussed and learned. Time will be spent on programming in Java, using DOS commands and prompts. The role of programming in IT, Admin, and Video Games will be discussed and practiced. Using problem solving, students will design and test large programs on a variety of topics. Programs will start as text only, but will advance to graphic interfaces and design.

Prerequisite: None

This course is designed to provide a basic understanding of how to solve problems using Java and instruct students how to apply these concepts to other programming languages. Using problem solving, students will design and test large programs on a variety of topics. Programs will start as text only, but will advance to graphic interfaces and designs. Mobile development will be introduced and apps for Android devices will be developed.

Prerequisite: Computer Science I

AP COMPUTER SCIENCE #406 ROBOTICS I #1434 Year Long Year Long Credit 1
Grade 11-12

This is an approved Advance Placement (AP) College Board course. In a rigorous academic environment, students will develop large programs using Java programming language, and prepare for the AP exam. Students will be taught in a rigorous manner to prepare them for the college experience. Also, they will be tutored in test taking strategies and go over the material selected for the AP Exam in Computer Science.

All students will be required to take the AP Exam; a final exam may be given at the discretion of the teacher.

Prerequisite: Computer Science I and the recommendation of the Computer Science teacher.

All students must complete a prerequisite assignment before the first day of class.

Grades 9-12 NCAA APPROVED (Science)

The first week will deal with safety and training of the tools involved. The rest of the first nine weeks will be an introduction into DC electricity and simple circuits. Simple automation using Arduino Lilypads, and sensor interaction. The second nine weeks will be involved with designing small robots that will be controllable by the students. The third nine weeks will be construction and testing of said robot. The fourth nine weeks will be an exploration of automation. Using sensor input to make the robot perform tasks automatically.

Prerequisite: None

Social Studies Department

ENTREPRENEURSHIP #1481/1482 U.S. HISTORY I #1077 1-Semester Credit 0.5 Year Long Credit 1 Grades 9-12 Grades 9 NCAA Approved

This class will provide the information and foundational decision-making skills to start a small business and make it grow. Learning the fundamentals of small business management will increase consumer awareness and knowledge of business operations which will aid students in their personal and professional lives. Students will examine the importance that entrepreneurs play in America, specifically as it relates to commerce and economic growth in our ever changing economy.

Prerequisite: None

This course is designed to focus on historical events and people in the United States 1840-1950. Students will explore the early American history of the United States during the formation of the union and the Civil War through World War II. The course includes an examination of the Presidential administrations from 1860-1945, and will focus on the president and events during each administration. The final course unit will focus on the Constitution.

Prerequisite: None

HONORS U.S. HISTORY I #1228 INTERNATIONAL STUDIES #1415 Year Long Credit 1 Year Long Credit 1 Grades 9 NCAA Approved Grades 11 NCAA Approved

This course is designed to provide a more challenging version of U.S. History I, with a focus on historical events and people in the United States 1860-1945, which examines the United States during the formation of the union and the Civil War through World War II. This course is designed to provide a deep understanding of the Presidential administrations and the major events from 1860-1945. Formative and summative assessments will require students to show knowledge of class objectives.

Prerequisite: Honors Enrollment based on three criteria: stand-alone social studies assessment, teacher recommendation, and classroom performance.

GOVERNMENT/CIVICS #1227 Year Long Credit 1 Grades 10 NCAA Approved

This is an introductory course in United States Government.

This course covers the general concepts used to understand the United States government and American politics. The concepts studied in this course include the various institutions, groups, beliefs, and ideas that formulate, and influence the United States government and the political system in which it operates.

Prerequisite: None

This course is designed to expose students to the increasingly interdependent global world and their participation in today's ever changing market. This class will examine such topics as politics, business, economics, cultural studies and environmental issues of the international society.

Prerequisite: None

HONORS INTERNATIONAL STUDIES #1416 Year Long Credit 1 Grades 11 NCAA Approved

This course is a more rigorous version of International Studies to specific written assignments, research projects and current that covers the same topics, time period and events. The event activities. Honors course primarily focuses on source materials and readings, current events that relate to the major geographic regions, historical research and extensive writing analysis. Prerequisite: To continue in the honors program a student is required to successfully complete Honors Government/Civics Students will be required to read, analyze, and discuss one or more novels that relate to the areas in the time period studied. To transfer into the honors program, a student must attain an "A" in Government/Civics Students are required to complete the work of the regular International Studies class but at a faster pace and in addition Government/Civics teacher.

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HONORS GOVERNMENT/CIVICS #1229 U.S. HISTORY II #1366

Year Long Credit 1 Grades 10 NCAA Approved

Year Long Credit 1 Grades 11 NCAA Approved

This is an introductory course in United States Government. This honors course will have an advanced pace and a more in depth coverage of the topics. The course of study includes concepts used to understand the United States government and American politics which include the various institutions, groups, beliefs, and ideas that formulate, and influence the United States government and the political system in which it operates. Formative and summative assessments will require students to show knowledge of class objectives in terms of strategic and extended thinking.

Prerequisite: To continue in the honors program a student is required to successfully complete Honors U.S. History I with a grade of "B" or higher. To transfer into the honors program, a student must attain an "A" in U.S. History I as the final grade, and the recommendation of the U.S. History I teacher.

AP ECONOMICS #246 Year Long Credit 1 Grades 11-12 NCAA Approved

This is an approved Advance Placement (AP) College Board course. There are two goals of AP Economics. First is to empower students to use economic reasoning in their decision making process. In addition, completion of the AP economics course should give students the understanding to be successful at the "intermediate" level of college microeconomics. Goal number two is to provide students with the opportunity to receive college credits by obtaining a passing score on the AP exam or by enrolling for credits through Penn Highlands. If there is a single criterion to consider before registering for AP Economics, it is your "mathematical" ability. The "logic and reasoning" used in microeconomics are very similar to that used in advanced math, such as calculus.

All students will be required to take the AP Exam; a final exam may be given at the discretion of the teacher.

Prerequisite: To continue in the honors program a student is required to successfully complete Honors Government/Civics or Honors International Studies with a grade of "B" or higher. To transfer into the honors program, a student must attain an "A" in International Studies as the final grade, and the recommendation of the International Studies teacher.

All students must complete a prerequisite assignment before the first day of class.

This course is designed to focus on historical events and people in the United States from 1950-present. Students will study the social, economic, political and military aspects of the United States from the start of the Cold War to the present with an emphasize the important people, issues, and events of the latter half of the 20th century through our present day.

Prerequisite: None

PSYCHOLOGY #275/1484 1-Semester Credit 0.5 Grades 11-12

This course focuses on the early fundamentals of basic introductory psychology. Students will explore the school of thought of different psychologists, theories, and psychological methods. Special emphasis will be put on the study of consciousness, learning, intelligence, personality disorders and psychological testing.

Prerequisite: None

AP PSYCHOLOGY #1572 Year Long Credit 1 Grades 11-12

This is an approved Advance Placement (AP) College Board course. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatments of psychological disorders, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas.

All students will be required to take the AP Exam; a final exam may be given at the discretion of the teacher.

Prerequisite: To continue in the honors program a student is required to successfully complete Honors Government/Civics or Honors International Studies with a grade of "B" or higher. To transfer into the honors program, a student must attain an "A" in International Studies as the final grade, and the recommendation of the International Studies teacher. All students must complete a prerequisite assignment before

the first day of class.

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war in Afghanistan. Additionally, this course will debate the many reasons why Military History is the most common theme of modern popular history.

MILITARY HISTORY #1574 1-Semester Credit 0.5
Grades 11-12

Prerequisite: None

This class is designed to provide students with the opportunity to discuss, understand, and explore local, national, international, political, economic and social issues in a respectful, meaningful, and active way. Throughout the term, students will stay up to date on current issues and trends. Because the subject of this class is “contemporary,” topics will vary considerably depending on the current news cycle. Students will be challenged to defend their opinions on many different issues.

CURRENT EVENTS #1573 1-Semester Credit 0.5
Grades 11-12

This class will examine the role of the military and conflict on both the ancient and modern world. Students will research and analyze the strategic, technological, cultural, and political influence of warfare on human history and the development of civilizations from Ancient Greece to the

Prerequisite: None

Science Department

THE NATURE OF SCIENCE #1486 HONORS BIOLOGY I #1488 Year Long Credit 1 Year Long Credit 1.4
Grades 9 NCAA Approved Grades 9 NCAA Approved

The course focuses on the History of the Earth and the forces that affect and shape our world. Individual units in Chemistry and Biology are also interjected into the curriculum. Students also prepare an environment project throughout the semester and present the project at the end of the class.

macromolecules, the cell and its environment, cellular protein synthesis, and how energy is gathered through cellular respiration and photosynthesis. We also study the different components relating to genetics; the history, the determination of traits, DNA, mutations, and disorders that are linked to genes. The last part of the year, we analyze evolution and ecology of organisms.

Prerequisite: None

This course covers basic chemistry of life, biological

Prerequisite: Honors enrollment is based on three criteria: cumulative skills assessment, teacher

recommendation, and classroom performance. **BIOLOGY #1487** Year Long Credit 1
Grades 10 NCAA Approved

In Biology I, students will develop a basic knowledge in the following areas: What is Biology?, Scientific Method, Cell Structures, Cellular Chemistry, Cellular reproduction, Genetics, Evolution, and Ecology.

animal systems, and relationships between organisms and their environments with a review of topics discussed in Biology I. Students will be doing some type of special project for each unit covered during the semester.

Prerequisite: None

HONORS BIOLOGY II #1489 Year Long Credit 1.4
Grade 10-12 NCAA Approved

To continue in the honors program a student is required to successfully completed Honors Biology I with a grade of “B”. To transfer into the honors program, a student must attain an “A” in Biology as the final grade, and the recommendation of the Biology I teacher

This course focuses on organisms, biodiversity, plant and

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AP BIOLOGY #1490 Year Long Credit 1.4 Grade 10-12
NCAA Approved

This is an approved Advance Placement (AP) College Board course. This is a college level course that will cover the following 4 “Big Ideas”: Evolution, Cellular processes: Energy and Communication, Genetics and Information

Transfer, and Biological Interactions.

All students will be required to take the AP Exam; a final exam may be given at the discretion of the teacher.

Prerequisite: To continue in the honors program a student is required to successfully completed Honors Biology I with a grade of "B". To transfer into the honors program, a student must attain an "A" in Biology as the final grade, and the recommendation of the Biology I teacher. All students must complete a prerequisite assignment before the first day of class.

Chemistry I #334 Year Long Credit 1 Grade 10-11
NCAA Approved

This course introduces the students to the composition, structure, and reactions of matter to include stoichiometry. This course also introduces higher level laboratory techniques and safety procedures.

Prerequisite: Algebra

HONORS CHEMISTRY I #1491 Year Long Credit 1.4 Grades 10 NCAA Approved This course introduces the students to the composition, structure and reactions of matter to include stoichiometry, solutions, acid base, and the gas laws. It explores many of the concepts as an entry level college chemistry course. It also introduces the students to higher level laboratory techniques and safety procedures. This course is the first step in the academic chemistry track.

Prerequisite: To continue in the honors program, a student must successfully complete Honors Biology I with a grade of "B" or higher. To transfer into the Honors Program, a student must attain an "A" in Earth and Space Science as the final grade, and the recommendation of the Earth and Space Science teacher.

HONORS CHEMISTRY II #1492 Year Long
Credit 1.4 Grades 11-12 NCAA Approved

This is a higher level Chemistry course for the college bound high school student. The course involves rigorous AP and Pre-AP work in the laboratory and will develop quantitative laboratory skills at or above the level of a college student. It will develop the skills of writing college level lab reports and performing laboratory practical exams. The class has an introduction to Organic Chemistry, Acid Base Chemistry, equilibrium, Thermodynamics and Kinetics work that is AP and college level.

Prerequisite: To continue in the honors program, a student must successfully complete Honors Chemistry I with a grade of "B" or higher. To transfer into the honors program, a student must attain an "A" in Chemistry I as the final grade, and the recommendation of the Chemistry I teacher.

AP CHEMISTRY #1493 Year Long Credit 1.4
Grades 12 NCAA Approved

This is an approved Advance Placement (AP) College Board course. AP Chemistry is a comprehensive course that covers all chemistry content areas. Problem solving is a major concern in the course. The AP Chemistry course is based on the following nine units: 1: Atomic Structure and Properties 2: Molecular and Ionic Compound Structure and Properties 3: Intermolecular Force and Properties 4: Chemical Reactions 5: Kinetics 6: Thermodynamics 7: Equilibrium 8: Acids and Bases 9: Applications of Thermodynamics

All students will be required to take the AP Exam; a final exam may be given at the discretion of the teacher.

Prerequisite: To continue in the honors program, a student must successfully complete Honors Chemistry II and Algebra II with a grade of "B" or higher.

All students must complete a prerequisite assignment before the first day of class.

PHYSICS #333 AP PHYSICS II #1541

Year Long Credit 1 Grades 11-12 NCAA Approved
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. It is the first physics course that may be taken in a series with AP Physics II.

Prerequisite: None

AP PHYSICS I #1540 Year Long Credit 1 Grades 11-12 NCAA Approved

This is an approved Advance Placement (AP) College Board course. Physics 1 is an algebra-based, introductory college-level 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.

All students will be required to take the AP Exam; a final exam may be given at the discretion of the teacher.

Prerequisite: Students should have completed Algebra II and be currently taking or have completed Geometry. Although the Physics 1 course includes basic use of trigonometric functions, this understanding can be gained either in the concurrent math course or in the AP Physics 1 course itself. No prior course work in physics is necessary.

All students must complete a prerequisite assignment before the first day of class.

Year Long Credit 1.4 Grades 11-12 NCAA Approved

This is an approved Advance Placement (AP) College Board course AP Physics II is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with

capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. AP Physics II is the second in a series with Physics I.

All students will be required to take the AP Exam; a final exam may be given at the discretion of the teacher.

Prerequisite: To continue in the honors program, a student must successfully complete AP Physics I with a grade of "B" or higher. To transfer into the honors program, a student must attain an "A" in Physics I as the final grade, and the recommendation of the Physics I teacher.

All students must complete a prerequisite assignment before the first day of class.

SENIOR SCIENCE #341 Year Long Credit 1.4 Grades 11-12 NCAA Approved

Students study basic chemistry for the first semester and physics for the second semester. There is also an emphasis on alternative energy sources and the effects on the environment. Students will complete several research projects. This course may include support for students to complete the Project Based Assessment (PBA) as required for graduation by the PA Department of Education.

Prerequisite: Biology I, Chemistry I and the recommendation of the grade 11 science teacher and/or administration.

HONORS HUMAN PHYSIOLOGY #340

Year Long Credit 1
Grades 11-12 NCAA Approved

This course is for students who are interested in a medical or health profession. Students will investigate the human body on a chemical, cellular, and tissue levels. Exploration of the anatomy and physiology of the human body systems is the focus of the class. After students study the different systems of the human body they will be conducting a dissection of a cat.

Prerequisite: To continue in the honors program a student is required to successfully complete Honors Biology I and Honors Chemistry I with a grade of "B" or

higher. To transfer into the honors program, a student must attain an “A” in Biology I and Chemistry I as the final grade, and the recommendation of the Biology I and Chemistry I teachers.

Business Education Department

INTERMEDIATE COMPUTER #1128 APPLICATIONS

1 Semester Credit 0.5 Grades 9-12 Grades 9

Students will use the series of Shelley Cashman’s Comprehensive Concepts and Techniques manuals to prepare projects using word processing, spreadsheet, and presentation software. Internet safety will be addressed during this class.

Prerequisite: None

ADVANCED COMPUTER #640 APPLICATIONS

1 Semester Credit 0.5
Grades 10

Students will develop advanced skills in the Microsoft Office programs of Word and Excel. Students will be introduced to Access, a database program. Throughout the course, students will learn how to use the free graphic design app called Canva. Canva will be used by students to create several marketing items that would be used for a business. Students will learn the basic skills of graphic design and photo editing using Photoshop. With the skills students learn in this class, they

DIGITAL VIDEO PRODUCTIONS II #1607 1 Semester Credit 0.5

will be able to apply these skills for projects in other classes, clubs, and real-world situations.

Prerequisite: None

This course will teach students advanced editing skills of the Corel Video Studio software. Students will be instrumental in recording and editing videos for school wide virtual events.

Prerequisite: Digital Video Productions I

INTRODUCTION TO #567/1499 ACCOUNTING 1 Semester Credit 0. Grades 9-12

This is an elective class open to students in grades 9-12. During this course, students will gain the knowledge of the accounting system for a sole proprietorship. Included in this accounting system will be lessons on maintaining accounts, financial forms, financial reports, checking accounts and etc.

Prerequisite: None

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BUSINESS LAW #399/1496 1 Semester Credit 0.5 Grades 9-12

This course is designed to give students an understanding of laws that pertain to businesses, with a concentration on contract laws for both personal and business use. Students will learn about laws that pertain to personal and business contracts. Students will gain an understanding of contracts that will help protect themselves throughout their lifetime.

Prerequisite: None

DIGITAL VIDEO PRODUCTIONS I #178/1498 1 Semester Credit 0.5 Grades 9-12

This course will provide various techniques of using the digital video camera and will produce several videos during

the class. Students will use the Corel Video Studio software. Where applicable, students will produce videos showcasing events and activities at the high school.

Prerequisite: None

WEB DESIGN #646/1500 1 Semester Credit 0.5 Grades 9-12

This is an elective class open to any student in grades 9- 12. Students will spend a semester learning website design principles and how to use the software needed to create such sites. Multimedia sites will be created using an online app such as Wix.

Prerequisite: None

COMPUTER ACCOUNTING #568/1497 1 Semester Credit 0.5 Grades 10-12

Using QuickBooks Pro®, students will apply accounting concepts and principles while developing a proficiency with computerized accounting systems that incorporates the use of general ledger entries, accounts payable entries, accounts receivable entries, and payroll entries.

Prerequisite: None

World Language Department

It is suggested that ALL students planning to attend college complete at least two years of a foreign language.

FRENCH I-IV #520/521/522/523 SPANISH I-IV #525/526/527/528 Year Long Credit 1 Year Long Credit
1 Grades 9-12 Grades 9-12

The primary goal of World Language is to develop linguistic proficiency and cultural sensitivity in order to prepare students to participate in our global society. The four essential skills of listening, speaking, reading, and writing are balanced within each level. Students increasingly develop their communicative skills as they deepen their appreciation of the French culture through thematic units.

The primary goal of World Language is to develop linguistic proficiency and cultural sensitivity in order to prepare students to participate in our global society. The four essential skills of listening, speaking, reading, and writing are balanced within each level. Students increasingly develop their communicative skills as they deepen their appreciation of the Spanish culture through thematic units.

Prerequisite: None

Prerequisite: None

Technology Education Department

DRAFTING/CAD 9 #1222 CAD (Computer Aided Drawing) #368/1502

1 Quarter Credit 0.25 Grades 9

Semester

Credit 0.5

Using industry standard drafting technology, which include AutoCAD and Inventor, students will produce single view, multi-view, and 3D drawings.

Grades 9-12

The student will develop plans, identify the parts and materials used in a building, and explain the purpose of each plan. Auto Desk's AutoCAD (computer aided drafting) and Revit will be used exclusively.

Prerequisite: None

WOOD PRODUCTIONS 9 #1463 1 Quarter Credit
0.25 Grades 9

Prerequisite: None

TECHNOLOGY

1 Semester Credit 0.5 Grades 10-12

Students will use mathematical skills including measurement, calculating board footage, and cost estimation. Each student will produce a project using various tools and machinery in the production lab with a focus on lab safety.

This course is designed to instruct students in the usage of mechanical drafting and Computer Aided Drafting (CAD). Students will use sketching, mechanical drafting tools and CAD workstations. Students will develop basic skills related to all areas of drafting. Topics include drafting tools, measurement systems drawing to scale, lettering, line

Prerequisite: None

ARCHITECTURAL DESIGN #564/1501 1

techniques, technical sketching, geometric construction, **LASER TECHNOLOGY #565/1503** 1 Semester
orthographic projection including one, two and three view drawings, and pictorial drawings including isometric, oblique
and perspective. Credit 0.5 Grades 9-12

Prerequisite: None

The student will use Corel Draw software to manipulate graphics, line art, original art and text. These images are used to raster (engrave) and vector (cut) a variety of materials.

Prerequisite: None

MANUFACTURING I #1461/1501 MANUFACTURING II #1462/1505 1 Semester Credit 0.5 1 Semester
Credit 0.5 Grades 10-12 Grades 10-12

Using a company/corporate design, students will work in teams, and have specific roles within the company. The class will divide into small teams where each team will construct a prototype, and design a product to market. Each team will present their prototype to the class. Then the class will choose one prototype to mass produce and market. This class will have a strong focus on lab safety and machine usage.

Prerequisite: None

The students will identify and research a real world problem. They will be responsible to formulate and produce a prototype that will address their area of focus. Each student group will be required to complete a portfolio that will document the design process. At the end of the course the students will present their prototypes to a panel of judges for constructive feedback. This class will have a strong focus on lab safety and machine usage.

Prerequisite: None

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STEM #1506/1507

1 Semester Credit 0.5

Grades 10-12

The Raspberry Pi is a small, single-board computer that will allow students to design and develop fun and practical devices while learning programming and computer hardware. In addition, students will learn how to set up the Raspberry Pi environment, get a Linux operating system running, and write and execute some basic Python code on the Raspberry Pi. Students will also learn how to use Python-based IDE (Integrated Development Environments) for the Raspberry Pi and how to trace and debug Python code on the device.

Prerequisite: None

Family and Consumer Science Department

CONSUMER SCIENCE 9 #741 CHILD DEVELOPMENT #678/1508 1 Quarter Credit 0.25 1 Semester
Credit 0.5 Grades 9 Grades 10-12

Using a discussion packet, video clips, and student centered discussions students will develop an understanding of consumerism and spending habits. Students will study good nutritional habits using MyPlate.gov and will learn how to prepare foods using good sanitation and safety skills. Basic hand sewing techniques will be introduced and students will

complete a hand sewn project.

Prerequisite: None

This class will investigate and study how children learn through their environment physically, socially, intellectually and emotionally. Students who are interested in pursuing a career in early childhood education or elementary education are

encouraged to take this course so that they may apply what they have learned to those fields of study. Students will take home and care for an infant simulator as a final project. Prerequisite: None

SEWING/HANDWORK #740/1509 FOODS II #790/1511 1 Semester Credit 0.5 1 Semester Credit 0.5 Grades 10-12
Grades 10-12

Students will work on variety of sewing and hand projects they provide for class. During the course, students will be required to produce projects using these skills and complete a final project assigned by the instructor.

Prerequisite: None

This course focuses on planning healthy meals that are attractive and satisfying as well. The students will learn to budget and prepare for a variety of group sizes. They will learn more advanced techniques and methods that will bring variety and zest into their cooking and baking styles.

Prerequisite: Foods I

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SEWING/HANDWORK II #1577 1 Semester Credit 0.5
Grades 10-12

This course will build on techniques learned in Sewing/Handwork. Students will provide materials to complete a variety of projects. Topics will include principles of design, maintenance and alterations of products, including home interior accessories and garments.

FOODS I #788/1510 1 Semester Credit 0.5 Grades 10-12

Students will learn to plan and organize a kitchen. They will learn and use basic cooking methods and preparation techniques to prepare a variety of foods. Students will also

compare cost, flavor and analyze nutritional values of convenience vs. homemade foods. During the course, students will be required to produce projects using these skills and complete a final project assigned by the instructor. Students will work to achieve the ServSafe Food Handler Certification.

Prerequisite: None

WORLD/REGIONAL FOODS #686/1512 1
Semester Credit 0.5 Grades 10-12

A variety of regions within the United States will be explored as to how certain foods came to those regions. We will also explore cultures, customs and foods of other countries around the world like China, Italy, France, Spain and Germany.

Prerequisite: Foods I

ART 9 #801 ART TECHNIQUES II #1603 1 Quarter Credit 0.25 1 Semester Credit 0.5 Grades 9 Grades 9-12

This is designed as an introductory level class that builds skills through the study of general art concepts, including art history integration, art aesthetics, art criticism, and artistic and creative careers. This course builds skills and technique in basic drawing, painting, sculpture, and other mixed mediums while developing students' abilities to incorporate a concept in their art.

Prerequisite: None

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ART TECHNIQUES #1133/1513 GENERAL ART #1132/1518 1 Semester Credit 0.5 1 Quarter Credit 0.25 Grades 9-12 Grades 10-12

Activities emphasize skills in tie-dying/fiber art, jewelry, mosaic, collage, printmaking, mask making, enameling and papermaking.

Prerequisite: None

This course is designed to help students build and refine basic drawings skills through studies such as direct observation, contour, cross-contour, gesture, tone, foreshortening, and perspective. The Drawing course explores a wide range of drawing media such as pencil/colored pencil, pen and ink, marker, oil/chalk pastel, and charcoal.

CERAMICS & SCULPTURE #1135 1 Semester Credit 0.25 Grades 9-12

Various types of clay construction and sculpture techniques are explored. Emphasis will be placed on technique, originality, planning and organizing three dimensional compositions.

Prerequisite: None

Prerequisite: None

Activities emphasize building basic skills and techniques in drawing, painting, mixed media, printmaking, and ceramics.

Prerequisite: None

CERAMICS & SCULPTURE II #1436 1 Semester Credit 0.5 Grades 9-12

Various types of clay construction and sculpture techniques are explored. Emphasis will be placed on technique, originality, planning and organizing three dimensional compositions.

Prerequisite: Ceramics & Sculpture

DIGITAL ART I #1519/1520 1 Semester Credit 0.5 Grades 9-12

This course is designed to allow students to showcase their creativity through digital media such as photography, photo editing software, computer art programs and applications, among others. This course explores the techniques and applications of acquiring, manipulating, and incorporating digital art media with graphic and design related projects on the computer and other digital technology. Students will address concepts such as photo manipulation, artistic composition through photography, digitally created artwork through multiple applications, and others. Students will utilize digital cameras, scanners and several photo editing software programs and digital drawing tools. Each student will develop a portfolio of their work.

Prerequisite: None

DRAWING #574/1516 1 Semester Credit 0.5 Grades 9-12

DIGITAL ART II #1604 1 Semester Credits 0.5
Grades 9-12

This course is designed to allow students to improve and enhance their creativity through digital media such as photography, photo editing software, computer art programs and applications, among others, on an independently directed course in which the students are responsible for their idea development, project execution, and artistic analysis of their work. This course builds upon Digital Art with its materials,

programs, and applications in a more advanced and student-centered manner. Students will also learn the fundamentals of art documentation which includes lighting, backdrop, setting, and digital portfolio building that will assist students who may consider an art field as a potential career option in their personal marketing strategies.

Prerequisite: Digital Art I

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DRAWING II #1437/1517 PAINTING II #1438

1 Semester Credit 0.5 Grades 9-12

This course explores a wide range of drawing media such as pencil/colored pencil, pen and ink, marker, oil/chalk pastel, and charcoal, as well as conceptual design and critique.
Prerequisite: Drawing

painting composition, and rendering.

Prerequisite: None

1 Semester Credits 0.5 Grades 9-12

This course will explore a more advanced use of paint in a variety of subject matter and conceptual design. Students will focus more on conceptual thought-process and design such as advanced composition with more advanced technical painting skills such as chiaroscuro and tenebrism, exploring painting styles, and palette knife painting on both traditional and nontraditional painting surfaces.

Prerequisite: Painting

PAINTING #575 1 Semester Credits 0.5 Grades 9-12

This course explores a wide range of painting media such as acrylic paint, mixed media, and watercolor. Students will work with concepts such as color theory and color harmony,

Music Department

GENERAL MUSIC #811 PIANO I #592/1524 1 Quarter Credit 0.25 1 Semester Credit 0.5 Grades 10-12
Grades 9-12

This class will investigate the many aspects of the art of music including cultural influences, active listening, virtuoso performers, order and form in music, jazz music, criticism/consumerism, and music as a record of human accomplishment. Music appreciation is achieved through listening, research, and writing. Studies include the use of “web 2.0” technology, such as recording, wiki use, uploading and sharing work, and use of open source software and internet resources.

This class picks up where 7th grade General Music left

off. Using readings, listening examples and class discussion – students will go deeper into the Baroque, Classical and Romantic periods of music. They will continue to learn about the history of pop music as well as being introduced to music from different parts of the world. A lot of ground will be covered in the 9 weeks – and it will all be centered on learning about and appreciating music!

Prerequisite: None

This elective course is offered to students in grades nine through twelve. It is designed to teach the fundamentals of

piano playing. Instruction will focus on proper playing concepts as the students work toward individual improvement. technique and reading music notation and symbols associated Repertoire combines all the ideas together in a piece of music with the music. The text provides a comprehensive approach to enable the total aesthetic musical experience. reading, understanding and playing music. Lessons contain concepts and fundamentals of posture, hand positions, music Prerequisite: None reading, scales, chords and keys. The instructor reinforces these

BEGINNING GUITAR #561/1522 PIANO II #1205/1525 1 Semester Credit 0.5 1 Semester Credit 0.5 Grades 9-12 Grades 9-12

This elective course is offered to students in grades nine through twelve. It is designed to teach beginners the fundamentals of guitar playing. Instruction will focus on proper playing technique and reading music notation and symbols associated with guitar music. Lessons contain concepts and fundamentals of posture, playing position, music reading and chord strumming. An emphasis will be placed on folk-style and classical guitar playing. The instructor reinforces these concepts as the students work toward individual improvement.

Prerequisite: None

This elective course is offered to students in grades nine through twelve who have successfully completed Piano I. Students do not have to take Piano II immediately after completing Piano I. Students who enroll in this class will continue their journey in playing the piano. As they progress in the text they will learn more advanced playing and note reading skills. Students will continue to complete weekly Listening Logs and In Class Piano Recitals.

Prerequisite: Piano

MUSIC THEORY #1605 FUNDAMENTALS

SENIOR HIGH BAND #840/1526

Year Long Credit 1 Year Long Credit 1 Grades 9-12 Grades 9-12

This elective course is offered to students in grades nine through twelve. Music Theory Fundamentals is for the novice or experienced musician who wants to develop a true understanding of written music (melody, harmony, rhythm, form and dynamics). Areas to be explored include rhythmic and melodic notation, scales, keys, harmony and simple music composition will greatly increase the students' understanding of music. Studies include the integration of composition and analysis projects.

Prerequisite: None

Prerequisite: None

SHOW CHORUS #1528/1529 Year Long Credit 1 Grades 9-12

The band rehearses during the school day, learning advanced instrumental music, musical rudiments, and learning about instrument care and maintenance. Most musical learning takes place through the study of instrumental music in preparation for public performances. Outstanding students are encouraged to perform solo literature and participate in available band festivals.

Prerequisite: None

SENIOR HIGH CHORUS #1196/1527 Year Long Credit 1 Grades 9-12

Students will be introduced to choral music from different genres and time periods. This chorus meets during the school day and performs at various school and community events throughout the school year. There are two required evening performances.

AP MUSIC THEORY #1606 Year Long Credit 1 Grades 10-12

This is an approved Advance Placement (AP) College Board course. This course integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary

composition, and some history and style. Musicianship skills such as dictation, sight-singing, and keyboard harmony are included. The course's ultimate goal is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. Additionally, the development of aural skills is a primary course objective.

All students will be required to take the AP Exam; a final exam may be given at the discretion of the teacher.

Prerequisite: To continue to AP Music Theory a student is required to successfully complete Fundamentals

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Students will learn to read and sing a variety of musical numbers from multiple genres leaning heavily on selections from popular culture. Students will also participate in the regular Senior High Chorus, the curriculum of which will be worked into the Show Choir course. All show choir music and performance will be above and beyond the regular Chorus requirements.

Prerequisite: None of Music Theory with a grade of "B" or higher, or receive a recommendation from the teacher.

All students must complete a prerequisite assignment before the first day of class.

Health & Physical Education Department

HEALTHY LIVING 9 #249 GENERAL PHYSICAL EDUCATION #1530/1531 1 Semester Credit 0.5 NONCOMPETITIVE

Grades 9 1 Semester Credit 0.5 Grades 9-12

This course addresses several interrelated components, including physical, emotional, social, career oriented, and environmental dimensions of healthy living.

Prerequisite: None

COMPETITIVE INDIVIDUAL #582/1532 SPORTS

1 Semester Credit 0.5 Grades 9-12

This course is geared toward the student who is competitive in nature but does not necessarily enjoy team events. Students will work on improving personal fitness through competition. Tournaments and competitions will be set up weekly that pit student against student. The environment in this class will be competitive, high paced and energetic. Students will focus on individual skill development and strategies related to each sport. Examples of sports to be played include badminton, pickle-ball, bowling, tennis, handball and golf.

Prerequisite: Healthy Living

COMPETITIVE TEAM SPORTS #581/1533 1 Semester Credit 0.5 Grades 9-12

In this course, students will work on improving fitness through competitive team sports. Weekly, students will compete in a team sport geared toward enhancing fitness and

demonstrating sportsmanship through competition. The environment in this class will be competitive, high paced and energetic. Students will also learn the importance of teamwork, cooperation, sport etiquette, and

General physical education is a course designed to encourage and teach students how to stay physically active through games and various fitness endeavors (i.e. aerobics, yoga, dance etc.) while providing an atmosphere that is less competitive in nature than typical co-ed classes. This class will provide opportunity for students to participate, compete, and socialize with classmates with similar abilities, interests and skill levels while promoting an active lifestyle.

Prerequisite: Healthy Living

FIRST AID / CPR #1245 1 Quarter Credit 0.25 Grades 9-12

This course is designed to provide students with the knowledge and practical skills necessary to treat a wide range of medical and traumatic emergencies which they are likely to encounter at some point, whether at school, home, or in public. Additionally, recognizing when to activate the emergency services and effectively communicate with dispatchers and healthcare providers is emphasized. Students will complete both the *American Heart Association Heart Saver CPR and First Aid*. At the completion of these courses, the student will earn a certification through the AHA in both areas, valid for two years until recertification is required.

Prerequisite: Healthy Living

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Grades 9-12

sportsmanship (win or lose) and how this aspect can impact team performance. Possible sports will include basketball, speed ball, floor hockey, volleyball, team handball, cage ball, soccer, ultimate Frisbee and flag football.

In this course, students will be provided with a deeper look at major organs and systems of the human body. An in depth look at each system will be discovered. A primary focus will be given to the skeletal, muscular and nervous systems to prepare students for a course in Human Physiology.

Prerequisite: Healthy Living

Prerequisite: Healthy Living

POWER WALKING #576/1514 1 Quarter Credit
0.25 Grades 9-12

Students will be involved in stretching and power walking 4 days per week. Various ways to alternate walking routines, times and schedules will also be studied. For this class, pedometers and heart rate monitors will be utilized. Throughout the nine-weeks, students will record their distances and be required to increase their speed of walk each week.

Prerequisite: Healthy Living

NUTRITION #578/1494 1 Quarter Credit 0.25 Grades
9-12

Students will be provided with an understanding of what's in the foods they eat and what each nutrient provides for the body. This class will include a look at how nutritional needs change throughout the lifespan as well as the impact that exercise and food have on your metabolism. An examination of fads and trends in current diets will occur to determine pros and cons of each. Current Issues and Nutritional disorders will also be investigated.

Prerequisite: Healthy Living

SPORTS AND FITNESS #1058/1535 1 Semester
Credit 0.5 Grades 9-12

Sports and Fitness is a class geared toward students who enjoy sports but also want to work out and learn various fitness techniques and activities. Student will participate in sports or games every other day. On opposing days, students will participate in fitness activities or be introduced to various types of fitness equipment. Those students who enjoy sports but also enjoy working out should seriously consider this class, it provides the best of both worlds.

Prerequisite: Healthy Living

WEIGHTLIFTING #584/1536 1 Semester Credit
0.5 Grades 9-12

Students will be taught how to structure a workout routine and how to break up a workout so as not to overload certain muscle groups. They will also begin to understand the difference between lifting for the purpose of muscle tone and lifting for muscle mass. Students will work through various workouts daily in this course. A record will be kept of daily workouts and progress being made.

Prerequisite: Healthy Living

HEALTH ISSUES & OCCUPATIONS #580 1
Quarter Credit 0.25 Grades 9-12

This course is ideal for those students who are interested or considering careers in the medical field and want to know more about what is out there for them. We will also discuss current health issues and concerns as well as health insurance, the coverage and the cost.

Prerequisite: Healthy Living

HUMAN BODY #583/1534 1 Semester Credit 0.5

**PERSONAL FITNESS/ #579/1495 BODY
MODIFICATION**

1 Semester Credit 0.5

Grades 9-12

This is a hands-on course. In this course, students will analysis various fitness components like body mass index, body fat, weight, muscular endurance as well as aerobic endurance. After looking at this analysis, students will establish an individual fitness goal and plan for reaching that goal. They will work daily on activities that will help

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them reach their personal fitness goal. New approaches or routines will be researched and worked on weekly to increase the student's chances of achieving success and an overall modification to their current health and fitness level.

Prerequisite: Healthy Living

Driver Education Career Education

SAFETY EDUCATION #912 CAREER EDUCATION #1113 1 Quarter Credit 0.5 1 Semester Credit 0.5
Grades 9-12 Grades 10

This course is designed for students who will be taking their PA Learner's Permit exam within 6 months of the completion of the course.

This course is designed to equip the student with the knowledge to be a skillful driver. Students will study the psychology of the driver, vision, alcohol laws, and will prepare the students for a life of safe, defensive driving.

Prerequisite: None

Career Education expands on the 8th grade curriculum and teaches practical information. Use of standardized career surveys, continuation of career portfolio, resumes, interview techniques, money management, credit, debt, taxes, and financial planning are a few topics addressed. Students will also research careers, the education required for them, and the anticipated salary and outlook for their selected ones.

Prerequisite: None