

BENTON AREA SCHOOL DISTRICT

HIGH SCHOOL ADMINISTRATION

Ms. Jennifer Allen..... Middle/High School Principal
Ms. Lindsay Rado.....Special Education Director

GUIDANCE

Ms. Kelly Kocher.....Middle/High School Guidance Counselor
Ms. Paula KinneyMiddle/High School Guidance Secretary

FACULTY

Mr. Matthew Aten	Mr. Jacob Golbitz	Mr. Emerson Noss
Ms. Megan Aten	Ms. Amanda Hack	Mrs. Suzanne Popko
Ms. Tabitha Carty	Mrs. Casey Hackett	Ms. Jennifer Posey
Ms. Melissa Chivers	Mr. Michael Hall	Mr. Clint Ross
Mrs. Michelle Black	Mrs. Danielle Hugar	Ms. Alyssa Tombasco
Ms. BJ Creveling	Ms. Jaime Kile	Mr. Mario Tombasco
Ms. Jennifer DiLossi	Mr. Eric Kocher	Mrs. Tara Varner
Ms. Lori Fenstermaker	Mr. Eric Levandowski	Ms. Tina Walters
Mr. Greg Fritz	Ms. Devon Lyons	Ms. Stacy Wingfield
Ms. Christy Gengler	Ms. Crystal Mahler	Mr. Joe Yankoski
	Mr. Chris Mitchell	

This guide is designed to assist students and parents/guardians to plan an academic program that will meet your educational needs while at Benton Area High School. BHS offers a comprehensive curriculum designed to prepare each student for his or her current needs, higher education, or entry into a technical school or work force.

Our program offers challenging standard academic courses, advanced placement, dual enrollment and career programs. As you examine the number of course selections in this booklet, please keep in mind not only your short-term needs, but also your long-term goals. Carefully consider your present and past proficiency in all subjects when selecting courses for next year. Understanding that when you select courses for which you are capable, you will be expected to perform to your potential. Failure to perform to your potential is not a valid reason to drop any course during the upcoming school year.

Our school counselor is prepared to assist in all matters concerning course selections, report cards, student academic programs and post-secondary guidance. Students and parents should consult often and freely. It is important that the student and his/her parent/guardian carefully select a program of study that is best suited to the student's needs. If any questions concerning course selections should arise, please call the school counselor's office at 570-925-0936 and arrange for an appointment.

Program Changes and Withdrawal Procedures

Requests for schedule changes SHOULD NOT be delayed until the school year begins in August. Those students who will be unable to meet on the days designated for schedule changes must make their changes before the 1st day of school.

The last day to request a schedule change will be 8/27/21. Any changes after that date will require a written request from the parent. Parents must then come in for a meeting which will be scheduled no later than 3 days after the request. Consultation with the teacher, student, parent/guardian and the guidance counselor will occur. The building principal will approve/disapprove the request. Dropped classes after 8/27/21 could result in a DROP/PASS or DROP/FAIL on the transcript. In addition Dual Enrollment/Advanced Placement courses require an additional contract form. [See attachment.](#)

*The Benton Area MS/HS reserves the right to modify schedules based on classroom needs/sizes, teacher recommendation, changes recommended by IEP team/School Psychologist, and/or administrative directed changes.

High School Graduation Requirements and Pathways

Every student must obtain at least 25 units of credit for graduation from the Benton Area High School. Many of these credits fall into specific categories and may not be counted in more than one area. **The ultimate responsibility for accumulating the appropriate credits is the responsibility of the student.**

Choose one of the following pathways:		
Lycoming CTC	Agricultural Productions Track	Higher Education and/or Engineering Track
English - 4	English - 4	English - 4
Math - 3	Math - 3	Math - 4
Science - 3	Science - 4	Science - 4
Social Studies - 3	Social Studies - 4	Social Studies - 4
Physical Education - 1	Physical Education - 1.5	Physical Education - 1.5
Personal Finance/Careers - 1	Personal Finance/Careers - 1	Personal Finance/Careers - 1
World Language - 1	World Language - 1	World Language - 1
Health - .5	Health - .5	Health - .5
Technology - 1	Technology - 1	Technology - 1
Driver's Education - .25	Driver's Education - .25	Driver's Education - .25
Lyco CTC courses - 7.50	Ag CTE courses - 4.75	Electives - 3.75
25 Total Credits	25 Total Credits	25 Total Credits

All students will be required to complete coursework and take the Keystone Exams. Currently these exams are English Language Arts (Literature), Biology and Algebra I.

*The graduation requirements for the Benton High School are in compliance with Pennsylvania State Board of Education regulations.

*The Benton Area School District does not discriminate on the basis of race, color, national origin, gender, age, religion, or disability in its activities, programs or employment practices as required by Title VI, Title IX, Section 504 and ADA.

Core and Accelerated Program Sequence

This four-year plan of study should serve as a guide as you develop your academic core requirements and electives. All plans should meet BHS graduation requirements.			
9th	10th	11th	12th
<u>English* (choose 1)</u> English 9 OR English 9 (Honors)	<u>English* (choose 1)</u> English 10 OR English 10 (Honors)	<u>English* (choose 1)</u> American Literature 11 OR American Literature (Honors)	<u>English* (choose 1)</u> British Literature OR Penn College English Lit./Comp
<u>Math* (choose 1)</u> Keystone Algebra OR Algebra I (1.5 credits) OR Algebra II OR Algebra II (Honors)	<u>Math* (choose 1)</u> Geometry OR Geometry (Honors) OR Algebra II OR Algebra II (1.5 credits)	<u>Math* (choose 1)</u> Geometry OR Pre-Calc/Trig OR Pre-Calc/Trig (Honors) OR LCCC College Algebra OR Prob & Stats OR College Math	<u>Math</u> (optional for Lyco CTC and AG pathways) Pre-Calc/Trig OR Pre-Calc/Trig (Honors) OR LCCC College Algebra OR Prob & Stats OR AP Calculus OR College Math
<u>Science* (choose 1)</u> Biology I OR Biology I (Honors)	<u>Science* (choose 1)</u> Biology II OR Chemistry I OR Chemistry I (Honors)	<u>Science* (choose 1)</u> Penn College Anatomy & Physiology OR Physics OR Chemistry I OR Advanced Biology OR AP Biology OR Chemistry II (Honors) OR Veterinary Science OR AP Environmental Science OR Environmental Science OR Industrial Chemistry OR Astronomy	<u>Science* (choose 1)</u> (optional for Lyco CTC pathway) Penn College Anatomy & Physiology OR Physics OR Advanced Biology OR AP Biology OR Chemistry II (Honors) OR Environmental Science OR AP Environmental Science OR AP Chemistry OR Astronomy
<u>Social Studies* (choose 1)</u> Civics OR Civics (Honors)	<u>Social Studies* (choose 1)</u> US Contemporary History OR US Contemporary History (Honors)	<u>Social Studies* (choose 1)</u> World History OR World History (Honors) OR AP Government OR American Government and Economics OR Penn College Psychology or Sociology	<u>Social Studies* (choose 1)</u> (optional for Lyco CTC pathway) World History OR World History (Honors) OR Government and Economics OR History of the Holocaust OR AP Gov't OR Penn College Psychology or Sociology
Physical Education*	Physical Education*	Personal Finance/Futures*	
<u>World Language*</u> Spanish I or French I	Drivers' Education*		
Technology(Computer App)*	Health*		
Pathway Electives	Pathway Electives	Pathway Electives	Pathway Electives
*Courses are graduation requirements.			

ADVANCED COURSE GUIDELINES:

HONORS LEVEL COURSES

Students who have earned an overall GPA of 93.00 or higher are eligible to select Honors classes. Students who have earned an overall GPA between 88 and 92.44 may request to be placed in an honors course. Students who make this request must have positive recommendations from their previous year's major subject teacher in order to be enrolled in the class. Teachers will complete the rating form to indicate their recommendations. It is recommended that students maintain a minimum of 85% to remain in Honors/AP courses. Honors courses will be weighted at 1.03.

Honors and Advanced Placement Requirements:

- Increased skill levels in technology
- Higher level skills required such as: application, analysis, synthesis, and evaluation
- Advanced projects, reading assignments, research and/or presentations
- Greater emphasis on theory
- Summer reading assignments or projects (Failure to complete summer assignments will result in the student receiving a zero as a summer work grade. Students will not be removed from an Honors or AP class due to a non-completion of summer assignments.)
- Independent study of special interest topics and study groups outside of class may be required

ADVANCED PLACEMENT (AP) COURSES

Students may enroll in AP courses with teacher recommendation only. Students enrolled in Advanced Placement courses are **required** to take the College Board's AP exam that is administered in the spring. Students and parents must sign the Dual Enrollment/Advanced Placement contract. AP courses are weighted at 1.06

ADVANCE COLLEGE EXPERIENCE PROGRAM (ACE)/ EARLY START PROGRAM

Qualified sophomores, juniors and seniors can take regular, for-credit university courses while still in high school to get a head start on college. ACE students may be able to save up to 75% on tuition in Bloomsburg's Advance College Experience Program. These college courses **do not** replace Benton's course requirements. Mansfield Early Start Program is also a virtual option that is at an extremely discounted price. Please see Mrs. Kocher for more information.

PENN COLLEGE NOW COURSES

Qualified sophomores, juniors and seniors can take regular, for-credit university courses while still in high school to get a head start on college. Students must take a placement test, acquire teacher recommendations, complete all prerequisites and sign the dual enrollment form. Students also must take an end-of-year final that will be graded by Penn College faculty. Dual enrollment courses are weighted at 1.06.

LUZERNE COUNTY COMMUNITY COLLEGE (LCCC) COURSES

Qualified juniors and seniors can take regular, for-credit university courses while still in high school to get a head start on college. Students must acquire teacher recommendations, sign the dual enrollment form, complete all prerequisites (if established), take a placement test, and purchase the textbook for the course (if applicable). Students also must take an end-of-year final. Dual enrollment courses are weighted at 1.06.

COURSE DESCRIPTIONS

ENGLISH

EN142 ENGLISH 9 - 1 credit

Course Description:

This course is an introduction to high school English. This year will focus on three main components of study which include critical reading strategies, literary exploration and interpretation as well as literary analysis through academic composition. Students should expect in-depth writing assignments that will focus on comprehension, meaning and interpretation. We will also focus on improving basic writing skills such as grammar, composition, research, revision, and vocabulary usage. The course will include the study of different literary genres and time periods. Literature that will be studied within the course includes, but is not limited to: To Kill a Mockingbird and Night. The students will also study Shakespeare's Romeo and Juliet as an introduction to drama. Vocabulary and independent reading projects are also integral parts of this course as well. This course is designed to prepare students to perform at a proficient or advanced level for the Literature Keystone Exam which will be administered in 10th grade English.

The Pennsylvania Common Core Standards form the basis for this course.

EN143 ENGLISH HONORS 9- 1 credit

Pre-requisites: Students must meet a minimum cut score for CDTs. Final grade in English must be 93% or higher. Teacher recommendation based on attendance, class participation and work ethic.

Course Description:

This course is an introduction to high school English. Unlike the college prep and applied English courses, we will work at an accelerated pace and work at a more in-depth level with the literature that we study. The year will be focused on three main components of study which include critical reading strategies, literary exploration and interpretation as well as literary analysis through academic composition. Students should expect in-depth writing assignments that will focus on comprehension, meaning and interpretation. We will also focus on improving basic writing skills such as grammar, composition, research, revision, and vocabulary usage. The course will include the study of different literary genres and time periods. Literature to be studied includes, but is not limited to To Kill a Mockingbird, Romeo and Juliet, and Night.

The Pennsylvania Common Core Standards form the basis for this course.

EN 145 ENGLISH 10- 1 credit

Course Description:

This is a course that will build on the skills previously introduced in 9th grade English. We will explore and discuss a variety of literature including short story, drama, fiction and nonfiction. We will continue to further develop literary interpretation, responding to literature and making textual connections to other pieces of literature as well as connections to our own life experiences. Students will also continue to advance their academic writing skills, grammar and vocabulary through the development of a research paper. Novels to be studied in 10th grade may include: *Fahrenheit 451*, *Animal Farm*, *Into The Wild*, and *Narrative of the Life of Frederick Douglass*. The students will also study Shakespeare's *Julius Caesar* as part of our drama unit. An independent reading program is also an integral part of this course and needs to be completed. This course is designed to prepare students to perform at a proficient or advanced level for the Literature Keystone Exam which will be administered at the end of the 10th grade school year.

Pennsylvania Common Core Standards and Keystone ELA eligible content form the basis for this course.

EN 144 ENGLISH 10 HONORS- 1 credit

Pre-requisites: Students must meet a minimum cut score for CDTs. Final grade in English must be 93% or higher. Teacher recommendation based on attendance, class participation and work ethic.

Course Objectives: This is a course that will build on the skills previously introduced in 9th grade English. Unlike the college prep and applied courses, we will move at an accelerated pace and work more in-depth with the literature that we study. We will explore short story, poetry, drama, fiction and nonfiction. We will continue to develop interpretation, responding and the ability to make textual connections to other pieces of literary works as well as connections to our own life experiences. Students will also continue to develop their writing skills, grammar and vocabulary. Some of the literary works to be studied may include: *Fahrenheit 451* (Required summer reading project), *Of Mice and Men*, *Animal Farm*, *Into the Wild*, and the *Narrative of the Life of Frederick Douglass*. The students will also study Shakespeare's *Othello* as part of the drama unit. An independent reading program is an integral part of this course as well and needs to be completed.

Pennsylvania Common Core Standards and Keystone ELA eligible content form the basis for this course.

EN 147 AMERICAN LITERATURE- 1 credit

Course Description:

This course will provide students with a comprehensive knowledge of the language arts including the reading and interpretation of literature, grammar skills, and writing skills to ensure the successful entrance into a college setting. A special focus will be placed upon American literature. Vocabulary for the successful completion of College Board examinations will also be emphasized along with the preparation of students for college level writing.

EN 146 AMERICAN LITERATURE 11 HONORS- 1 credits

Prerequisites:

- **Students must have a GPA of 90% or better.**
- **Students must have the recommendation of their English teacher.**

Course Description:

Students enrolling in this class should have the major goal of working towards college and/or taking AP English as a senior. This class involves somewhat difficult, in-depth reading and writing. It includes a wide variety of American literature including but not necessarily limited to Nathaniel Hawthorne, Benjamin Franklin, Edgar Allan Poe, Walt Whitman, and William Faulkner. Novels that may be studied, but are not limited to, are The Scarlet Letter, Beloved,

Native Son, and The Things They Carried. The instructor will expect students in this course to complete a variety of college style literary analyses, projects (including extensive summer requirements), and independent reading assignments.

EN 152 BRITISH AND WORLD LITERATURE- 1 credit

Course Description:

This course will provide students with a comprehensive knowledge of the language arts including the reading and interpretation of literature, grammar skills, and writing skills to ensure the successful entrance into a college setting. A special focus will be placed upon British literature including such classics as William Shakespeare, Charles Dickens, and Aldous Huxley. Vocabulary for the successful completion of College Board examinations will also be emphasized along with the preparation of students for college level writing.

ENL111: ENGLISH COMPOSITION I – 12th grade- **PENN COLLEGE NOW COURSE**

Prerequisite: Students must take and pass a reading placement test in order to be admitted into the class.

Teacher recommendation is required.

Dual Enrollment Contract form is required.

Senior only course.

This course focuses on fundamental writing and research skills with an emphasis on expository writing. Emphasis on analysis, discussion, and practice of writing that explores, explains, and argues. Course work includes a significant research component. ENL 111 endeavors to explore different types of written expression within the context of a collegiate and real-world setting. By examining the different purposes and contexts for writing, the class will strive to strengthen both basic and more advanced writing skills. We will look at various pieces of literature, as well as textbook models of specific types of writing, to help us achieve this goal. Some types of writing we will explore include narration, description, definition, comparison/contrast, illustration, and argumentation. Students will use writing to explain and explore, as well as gain experience in essential writing and research skills. The skills you will take with you from this class will strengthen your ability to express yourself, and thus increase your opportunities for academic and post-collegiate success. If you want people to take you seriously in this world, express yourself in a way that earns respect! Students also must take an end-of-year final that will be graded by Penn College faculty.

SOCIAL STUDIES

SS 102 CIVICS 9: 1 credit

Prerequisite: Completion of 8th Grade American History I

Purpose/Content: Civics is designed to give students the skills and knowledge necessary to become responsible and effective citizens in an interdependent world. Students will focus on the structure of our legal and political systems which serve as the foundation of our government. An analysis of the free-enterprise system coupled with interpreting foreign and domestic policies will also contribute to their understanding.

SS 112 HONORS CIVICS 9: 1 credit

Purpose/Content: Civics is designed to give students the skills and knowledge necessary to become responsible and effective citizens in an interdependent world. Students will focus on the structure of our legal and political systems which serve as the foundation of our government. An analysis of the free-enterprise system coupled with interpreting foreign and domestic policies will also contribute to their understanding. Students will be required to implement CFF technology, develop research papers, and develop community projects as part of this honors curriculum.

SS 104 CONTEMPORARY US HISTORY– 10: 1 cr.

Prerequisite - Successful completion of 9th grade Civics.

Purpose – To have students demonstrate their understanding of American history in measurable terms through in-depth analysis of individuals and groups, conflict and cooperation, continuity and change, and historical evidence while targeting specific standards.

Content - This survey course is designed to provide students with a foundation in late 19th and 20th century American history. Students will examine the political, economic, cultural, and social evolution of America from the period of Civil War to World War II. Various themes will be examined including but not limited to industrialization, immigration, military conflicts, diplomacy, politics, and social reform. Students will be expected to complete a variety of projects, writing assignments, and presentations related to the various themes being examined during the course of the year.

SS 103 HONORS CONTEMPORARY US HISTORY: 10: 1 credit

Content- This course is designed to establish a firm comprehension of the historical topics and concepts that have shaped the United States from the Industrial Revolution to the present day. The course will provide explanations, theories, and background information necessary to understand the current status of the United States. Students will be required to implement CFF technology, develop research papers, and complete a Living History final exam as part of the honors curriculum.

SS 106 WORLD HISTORY: 11: 1 credit

Prerequisite: Successful completion of tenth grade course offering

Purpose/Content: This course is designed to present to students historical events and documents that helped shape the cultural, ideological, and political characteristics of our world from the Renaissance period to the present. *Students who take this course will be subjected to college level standards related to analytic thinking, public speaking and research. Students will complete various projects and activities where analysis and synthesis are incorporated.*

SS 105 HONORS WORLD HISTORY: 11: 1 credit

Prerequisite: Successful completion of tenth grade course offering

Purpose/Content: This course is designed to present to students historical events and documents that helped shape the cultural, ideological, and political characteristics of our world from the Renaissance period to the present. *Students who take this course will be subjected to college level standards related to analytic thinking, public speaking and research. Additional research papers, analytical essays, current events assignments, and projects will be evident during this course.*

SS 108 AMERICAN GOVERNMENT/ECONOMICS – 11 or 12th grade: 1 credit

Purpose/Content – The course is designed to provide students with the fundamental principles and practices of American Government. The course is divided into two units. In American Government students will study topics and documents necessary for becoming active participants in American democracy. Fundamental principles addressed will include federalism, The Bill of Rights, separation of powers, checks and balances, and the Constitution. Organizations like the media, political parties, and interests groups that impact the American government will also be addressed. In Economics, students will study principles involved in the production, consumption, and exchange of goods and services. Topics addressed during this portion of the course include factor markets, product markets, business cycles, demand, supply, and financial intermediaries. College level standards through research-based projects that include analytic thinking, public speaking and research papers will be evident throughout this course. *Students who are planning to go to college, but who do not wish to take the Advanced Placement Government class or Honors class are recommended for this course.*

SS 107 AP AMERICAN GOVERNMENT/POLITICS- Junior/Senior- 1 credit

Students enrolled in this course will be required to take the College Board's AP Government exam.

Prerequisite - Successful completion of 10th grade American History II with a 93% GPA or above. Teacher recommendation required.

Purpose- This course is designed to help the college-bound student who intends to take the Advanced Placement examination.

Content- This course gives students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It requires familiarity with various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will be taught to understand typical patterns of political processes and behavior and their consequences. In addition students will be taught how to analyze and interpret basic data relevant to U.S. government and politics. Throughout the course, students will learn to create conclusions through deductive reasoning, analysis, synthesis, and essay development. *This course also has the potential to be labeled as a Penn College Now course in American Government and Politics and count for an additional 3 college credits from Penn College for successful completion of the course.*

SS 109 PSYCHOLOGY/SOCIOLOGY- PENN COLLEGE NOW COURSE 1 credit
11th or 12th grade

PSY111: General Psychology-

Introduction to the science of human behavior and mental processes. Students examine the relation between the nervous system and behavior, learning, perception, language, personality, intelligence, and psychopathology. 3 Credits (3 Lecture - 0 Lab) Prerequisite(s): Placement by Examination or RDG001

SS 113 HON HISTORY OF THE HOLOCAUST - Seniors only – 1 credit High School Course

Prerequisite – Successful completion of a college level/AP social studies course, or successful completion of 11th grade Honors World History with a 93% GPA or higher. Teacher recommendation required. Parent permission required.

Content – This course is an examination of one of the most overwhelming events in human history: the systematic murder by the Nazis of six million European Jews, murdered solely because of their ethnic identity. The purpose of this course is to expose students to a difficult subject in World History while understanding the events at a collegiate level. Students are required to have a basic knowledge of World History up until and during World War I.

Students will be taught World and German History stemming from historical antisemitism (pre-Nazi Germany) to the aftermath of the Holocaust and many lessons and topics throughout these events. Throughout the course, students will learn to create conclusions through deductive reasoning, analysis, synthesis, and essay development.

FOREIGN LANGUAGE

FOREIGN LANGUAGE I – 1 cr.

FL201- SPANISH

Purpose - To begin a study of Spanish for any interested student in the ninth grade, or for any student wishing to satisfy a requirement for college acceptance. This course will provide the student with the opportunity to attain an acceptable level of proficiency in the four skill areas of reading, writing, speaking and listening.

Content - The focus of this course is on communication and self-expression relevant to students' daily lives, needs and interests. The course will include the study of beginning level grammar, useful vocabulary and correct spelling and pronunciation of Spanish. It will also include an overview of cultural similarities and differences.

FL226- FRENCH

Purpose - To begin a study of the French language for any interested student or any student wishing to satisfy a college language requirement. Also, the student should attain an acceptable degree of proficiency in the four skill areas of speaking, reading, listening and writing.

Content - The focus of this course is on communication and self expression relevant to the students' daily lives, needs, and interests. This course will include the study of beginning level grammar, useful vocabulary and correct pronunciation in the target language. It will also include an overview of cultural similarities and differences.

FOREIGN LANGUAGE II - 1 cr.

FL202- SPANISH

Prerequisite - It is required that a student receive a passing grade in Spanish I and that he/she also receive the recommendation of the teacher.

Purpose - To continue the development of the four skills of listening, speaking, reading and writing in Spanish, incorporating higher level grammatical structures, more complex sentence structures and advanced vocabulary.

Content - This course continues to stress the skills of speaking and listening, however increased time is spent on reading comprehension and writing. Writing and performing dialogues and skits based on real life topics will demonstrate both the ability to process and provide information.

FL227- FRENCH

Prerequisite - It is required that a student pass French I.

Purpose - To continue and broaden the study of French including higher level grammatical structures, sentence structures and advanced vocabulary.

Content - This course continues the study of grammar and vocabulary through speaking and listening activities, but increased time is spent on reading and writing in French. Additional cultural activities are also integrated.

FOREIGN LANGUAGE III - 1 cr.

FL203- SPANISH

Prerequisite - It is required that the student receive a grade of at least an 80% in Spanish II and the recommendation of the teacher.

Purpose – Students will improve and advance in communication skills of the Spanish language. At this level, students will build on previously learned patterns of both written and spoken Spanish, and they will begin to incorporate more complex structures and patterns.

Content – This course continues to review and incorporate the concepts learned in Spanish I and II. Through various classroom activities, students will demonstrate their ability to initiate and/or respond to basic communicative tasks. Writing of simple compositions and reading of simple essays and short stories will also develop communication skills. In addition, daily conversations in Spanish will occur among students and teacher. A more in-depth look at Spanish history and its culture will also be included, as well as an in-depth study of a Spanish artist.

FL228- FRENCH

Prerequisite - It is required that a student have at least an 80% in French II and the recommendation of the teacher.

Purpose - The students will continue to expand their ability to communicate in French at a more complex level. At the same time, students will improve their writing and reading skills with a cultural focus on the contemporary French-speaking world.

Content – This course reviews basic concepts learned in French I and II. Through various classroom activities and projects, the students will be able to apply both their previously acquired and newfound knowledge of the French language. In addition, to improve communication skills, the students will be expected to read and write more in the French language. Finally, French and Francophone culture will be explored in greater depth.

FOREIGN LANGUAGE IV - 1 cr.

FL204- SPANISH

Prerequisite - It is required that students receive a grade of at least an 80% in Spanish III.

Purpose - To increase the student's level of proficiency in speaking and writing, to advance their level of reading comprehension and to further refine their listening skills.

Content - This course will provide students with opportunities to refine their abilities to communicate in Spanish. A strong emphasis will be placed on listening and speaking. A variety of resources will be used to give the students real world practice with the language. This course will also teach a variety of cultural aspects, provide an in depth study of grammatical concepts, reading of a Spanish novel and an in-depth study of a Spanish artist. Daily speaking is required.

FL229- FRENCH

Prerequisite - It is required that a student have at least an 80% in French III and the recommendation of the teacher.

Purpose - To improve the students' abilities in all four skill areas of listening, speaking, reading and writing.

Content - This course reviews and teaches cultural aspects such as literature, the arts, and French/Francophone daily life along with the study of more complex grammar and vocabulary using outside materials such as the Internet, books, magazines and videos to perfect their knowledge of French. The conclusion of this course will be reading the French children's novel LePetit Prince, by Antone de Saint-Exupery.

MATH

MA 304 ALGEBRA I- 1.5 credit

MA 304 Algebra I will give students a basic foundation of algebraic concepts. This course will cover most of the material taught in Academic Algebra I but will be presented at a slower pace with more class time and hands-on activities. This course will focus on the study of variables and linear equations. Graphing techniques, abstract reasoning skills, and problem solving skills are developed and applied to real life situations. While similar algebra skills are covered, the material is paced to permit for mastery of content and further skill development. Topics include: the language of Algebra, real numbers, solving linear equations, graphing relations and functions, analyzing linear equations, solving linear inequalities, systems of equations and inequalities, and statistics.

MA 318 (Keystone) ALGEBRA I- 1 cr.

Purpose - To establish a sound foundation for continued movements through further academic mathematics courses. Algebra I is essential for any student planning to further her/his education beyond high school.

Content – In this course, concepts of arithmetic basic to understanding Algebra is solidified. This course is a detailed study of sign rules, properties, evaluating, simplifying, and solving all types of equations and applications to word problems.

MA 309 ALGEBRA II- 1.5 credits

This course makes regular use of the graphing calculator to make technology an integral part of the problem solving process. While similar Algebra skills are covered, the material is paced to permit for mastery of content and further skill development. Topics include radical expressions, quadratic functions and inequalities, polynomial functions, rational expressions and equations, exponential and logarithmic relations. Algebra II is designed to prepare students to perform at a proficient or advanced level for the Algebra Keystone Exam which will be administered at the end of the course.

MA 310 ALGEBRA II- - 1 cr.

Prerequisite – Successful completion of Algebra I.

Purpose - To extend the topics from Algebra I.

Content - This course is an extensive investigation of solving equations and inequalities involving one and two variables; simplifying rational algebraic expressions; expressions with irrational and complex numbers; and dividing polynomials.

MA 313 HONORS ALGEBRA II- 1 credit

Prerequisite- Successful completion of Algebra I. **Students must meet a minimum cut score for CDTs. Final grade in Alg I must be 90% or higher. Teacher recommendation based on attendance, class participation and work ethic.**

Purpose - To extend the topics from Algebra I.

Content - This course is an extensive investigation of solving equations and inequalities involving one and two variables; simplifying rational algebraic expressions; expressions with irrational and complex numbers; and dividing polynomials. Students will be asked to solve equations involving exponents and logarithms.

MA 317 GEOMETRY – 1 cr.

Prerequisite – Successful completion of Algebra I and Algebra II.

Purpose - To develop and strengthen geometric skills through visual conception, logical deduction or discovery. Gaining an appreciation of geometry through the powers of observation is a continuous theme of this course.

Content - An introduction to deductive and inductive reasoning is stressed and applied through such concepts as parallel and perpendicular lines, triangles and quadrilaterals. This course will also discover and apply theories such as the Pythagorean Theorem to real-life problem solving.

MA 316 HONORS GEOMETRY – 1 cr.

Prerequisite – Successful completion of Honors Algebra I and Honors Algebra II

Purpose - To develop and strengthen geometric skills through visual conception, logical deduction or discovery. Gaining an appreciation of geometry through the powers of observation is a continuous theme of this course.

Content - An introduction to deductive and inductive reasoning is stressed and applied through such concepts as parallel and perpendicular lines, triangles and quadrilaterals. This course will also discover and apply theories such as the Pythagorean Theorem to real-life problem solving. This class will investigate Basic Trigonometry, circles, area and volume.

MA 307 HONORS TRIGONOMETRY – .50 credit

Prerequisite – Successful completion of Honors Algebra I, Honors Geometry, and Honors Algebra II.

Content - This course is the study of right triangle measurements and ratios, useful for calculating indirect measurements. Topics covered in Trigonometry include: right triangle properties, trigonometric functions, the unit circle, radian measure, trigonometric identities, trigonometric graphs, and advanced algebra.

MA 307 HONORS PRE-CALCULUS-.50 credit

Prerequisite- Honors Algebra I, Honors Algebra II, Honors Geometry

This course is designed to continue, maintain, sharpen and improve mathematical skills attained through Algebra II. It also extends many of the topics in more depth than covered in previous math courses and prepares students for a formal course in Calculus. The course will extend work with complex numbers, expand understanding of logarithms and exponential functions, use characteristics of polynomial and rational functions to sketch graphs of those functions, and perform operations with vectors.

MA 315 TRIGONOMETRY – .50 credit

Prerequisite – Successful completion of Algebra I, Geometry, and Algebra II.

Content - This course is the study of right triangle measurements and ratios, useful for calculating indirect measurements. Topics covered in Trigonometry include: right triangle properties, trigonometric functions, the unit circle, radian measure, trigonometric identities and trigonometric graphs.

MA 315 PRE-CALCULUS-.50 credit

Prerequisite- Algebra I, Algebra II, Geometry

This course is designed to continue, maintain, sharpen and improve mathematical skills attained through Algebra II/Trigonometry (H). It also extends many of the topics in more depth than covered in previous math courses and prepares students for a formal course in Calculus. The course will extend work with complex numbers, expand understanding of logarithms and exponential functions, use characteristics of polynomial and rational functions to sketch graphs of those functions, and perform operations with vectors.

MA 312 AP CALCULUS- 1.5 credit

Students enrolled in this course will be required to take the College Board's AP Calculus exam.

Prerequisite: Honors Pre-Calculus/Honors Trigonometry and completion of summer project

Advanced Placement Calculus is a course that requires a student to learn the fundamental concepts and mathematics of calculus and to recognize and formulate connections between topics. It is expected from this course that students will gain mathematical skill, understanding and use of technology to help them be successful in further mathematics classes and in their future careers. Students are expected to think hard, try different approaches to problems, and enjoy seeing their understanding of mathematics grow. The course moves at an accelerated speed.

MA 319 COLLEGE MATH-Seniors - 1 cr.

The goal of this course will be to provide mathematics to students who seek a course that strengthens their knowledge in algebra and geometry. It will also contain areas of mathematics such as sets, logic, number theory, and probability and statistics. This course is recommended for students who are planning on going to a college, university, or technical/trade school, but are not majoring in the math, medical or science field.

MA 308 BASIC STATISTICS —1credit

Prerequisite:

Course Description: An introductory course in statistics beginning with descriptive statistics, probability, inferential statistics and decision making. Binomial distributions, normal distributions linear regression and correlation are applied to management, natural and social sciences.

MA 320 COLLEGE ALGEBRA – LCCC Course Math 121 - 1 credit (3 college credits)

Prerequisite: Placement Exam, Dual Enrollment Form Required

Course Description: An advanced course in Algebra. Topics studied include: linear, polynomial, rational, exponential and logarithmic functions and their graphs, equation solving and systems of equations.

SCIENCE

SC 402 HONORS BIOLOGY I- Freshman- 1 credit

Content- Taught on an honors level, this course provides an overview of important ecological concepts and their integration into the Biology curriculum. Topics covered include ecological relationships and changes, evolution of species, genetic theory, and the relationship between structure and function at all levels of organization among living things.

SC 404 BIOLOGY I (1 credit) – 9th Grade Course

Biology I is a 9th grade science course that will deal with biology as an everyday experience. Topics covered include the nature of Biology, properties of water, and principles of Ecology, cell Biology, Evolution and classification. Lab experiments combined with demonstrations, and multiple learning activities will be utilized throughout the year. Relevant issues in Biology along with web-based activities will be integrated as needed. The course content is aligned with the assessment anchors for the Keystone Exam for Biology. This course is designed to provide a strong background in major biological concepts to prepare you for taking the Biology Keystone Exam next year. (Following completion of Foundations of Biology II)

SC 406 BIOLOGY II (1 credit) – 10th Grade Course

Prerequisite: Satisfactory completion of Biology I

Biology is the second course in a two course sequence designed to help prepare students for the Biology Keystone Exam. This course will complete our study of the Assessment Anchors for the Biology Keystone Exam. The Assessment Anchors are defined by the Eligible Content statements established by the Pennsylvania Department of Education. The course will begin with an intensive review of concepts covered in Foundations I followed by a continuation of the following assessment anchors: The Chemical Basis of Life, Bioenergetics, Cell Growth and Reproduction, and Genetics. A significant laboratory component will be incorporated into the course to support the major concepts studied in class. Students will take the Biology Keystone Exam at the conclusion of this course.

SC 417 ENVIRONMENTAL SCIENCE – 11th-12th grade - 1 cr.

Content – This course will follow a STEM model of Environmental Science. This course is designed to give students the necessary knowledge and skills that will enable them to apply

scientific skills and processes on major environmental science concepts. Upon successful completion of this course, students should be able to use the scientific skills and processes and major environmental science concepts to understand interrelationships of the natural world and to analyze environmental issues and their solutions. Ownership is acquired in this course through completion of meaningful learning projects, designed to address real environmental issues faced by people in the world today. Students will be challenged with identifying issues, developing possible solutions and then testing their ideas. This course will encourage the student to accept a responsible role in maintaining our environment.

SC 408 AP ENVIRONMENTAL SCIENCE – Juniors or Seniors – 1.5 credit

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The AP Environmental Science course is intended to enable students to undertake, as first-year college students, a more advanced study of topics in environmental science or, alternatively, to fulfill a basic requirement for a laboratory science and thus free time for taking other courses. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. A significant laboratory component will be integrated into the curriculum. The class differs from regular Environmental Science with respect to the range and depth of topics covered, the kind of laboratory work done, and the time and effort required of the students. Due to the volume of material to be covered, students will be expected to assume responsibility for their own learning in preparation for the AP test. All students who take the course will be required to take the AP exam at the end of the course.

Prerequisites

One year of biology and one year of chemistry with a final grade of at least 93 in each course. Students will also need teacher approval to take the course.

SC 409 AP BIOLOGY- Juniors or Seniors- 1.5 credit

Students enrolled in this course will be required to take the College Board's AP Biology exam.

AP Biology is a senior only, college-level course for highly motivated students who plan to further their education in a scientific field. The course is designed to be the equivalent of a two-semester college introductory biology course. The goal of the course is to provide students with the conceptual framework, factual knowledge, and analytical skills to deal critically with the rapid changing science of biology. A significant laboratory component will be integrated into the curriculum. The class differs from Honors Advanced Biology with respect to the range and depth of topics covered, the kind of laboratory work done, and the time and effort required of students. Due to the volume of material to be covered, students will be expected to assume responsibility for their own learning by completing several assignments during the summer.

SC 410 ADVANCED BIOLOGY-Juniors or Seniors – 1 cr.

Prerequisite: Successful completion of Biology I, Biology II and Chemistry I

Purpose - This course is designed to provide college bound students with an adequate background to successfully complete the introductory college biology course. It is strongly recommended for all high school seniors that are anticipating a career in the biological sciences and medical fields.

Content - This course includes an in-depth study of human anatomy and physiology, as well as a look into molecular and human genetics. There is an in-depth unit on DNA/RNA and molecular genetics and human genetics, and also class projects involving the dissection of a rat and an insect collection. The ultimate goal of this course is to help prepare the student for college and a possible future career in a biological science related field.

SC 415/BIO103 ANATOMY AND PHYSIOLOGY-12th grade- 1 credit- 3 college credits

Teacher recommendation required, Dual Enrollment Form Required, Placement Exam Required

This course is designed to be an advanced study of the human body for students with an interest in pursuing a career in a health-related field. Topics include anatomical structures, physiological systems, and body functions. Students will acquire skills used in the classification of data, experience in oral and written communication of data, and skills in drawing logical inferences and predicting outcomes. Students will apply the principle of physiology to human health and well-being and evaluate the applications and career implications of physiology and anatomy principles. *This course is currently being evaluated as a Penn College course. Students taking this class could earn 3 college credits from Penn College.

SC 411 CHEMISTRY I—1 cr. (10th-11th)

Prerequisite—Biology I and successful completion of Biology Keystone

Content—This course includes chemical/physical properties and changes, atomic structure, the periodic table, chemical bonding, IUPAC nomenclature, chemical equations, stoichiometry, and gases. This course also provides laboratory experience in the listed topics.

SC 403 CHEMISTRY I (H)-1 cr. (10th-11th)

Prerequisite—Biology I and successful completion of Biology Keystone

Content—Taught on an honors level, this course is intended for students planning to major in a scientific field in college. This course includes more in depth coverage of all topics in Chemistry I in addition to acids and bases, pH, and qualitative analysis. This course also provides laboratory experience in the listed topics.

SC 412 CHEMISTRY II (H)—1 cr. (11th-12th)

Prerequisite—Chemistry I and teacher recommendation

Content—This course provides an introduction to organic chemistry nomenclature, reactions, and mechanisms for a portion of the school year. Remaining time is spent studying, thermodynamics, chemical kinetics, and chemical equilibrium.

SC 407 AP CHEMISTRY—1.5 cr. (11th-12th)

Students enrolled in this course will be required to take the College Board's AP Chemistry exam.

Prerequisite—Honors Chemistry I, Algebra II, and teacher recommendation

Content—This course is designed as an entry-level college chemistry course. Topics covered include atomic and molecular structures and properties, intermolecular forces and properties, gases, chemical reactions, kinetics, thermodynamics, chemical and physical equilibrium, acids and bases, and applications of thermochemistry. A minimum of 16 traditional and guided-inquiry laboratories will be performed throughout the year. Students taking this course should have a solid background in basic chemistry and algebra and should be highly self-motivated. Students are required to take the AP Chemistry exam and the end of the course.

SC 405 INDUSTRIAL CHEMISTRY—1 cr. (11th)

Prerequisite—Biology I

Content—This course is designed to provide students with an understanding of basic chemistry concepts. Math applications will be reviewed on an as needed basis and topics covered include chemical/physical properties and changes, atomic structure, the periodic table, chemical bonding, IUPAC nomenclature, equations, and gases.

SC 418 PHYSICS—1 cr. (11th-12th)

Prerequisite—Chemistry I and Advanced Math (May be taken concurrently with teacher recommendation)

Content—This course includes kinematics, Newton's Laws, statics, momentum, energy, pressure, and torque. The focus will be on understanding the concepts of physics, but math applications will also be explored.

ASTRONOMY- 1 credit (11th-12th grade)

This course is to introduce students to the basics of beyond earth and our planet as a whole. This introduces galaxies, planetary systems, stars and the science behind them. There will be projects that help students learn about systems within our universe.

BUSINESS AND TECHNOLOGY

CT 501 COMPUTER APPLICATIONS – Freshmen - 1 cr. (Graduation Requirement)

Prerequisite – None.

Purpose – To develop skills in various computer application programs.

Content – This course covers: MS Office – Word, Access, Excel, and PowerPoint, along with Google applications. If time permits, other MS Office programs will be introduced.

CAR850 PERSONAL FINANCE: 11th and 12th grade- .50 credit (Graduation Requirement)

This course is a comprehensive study of various personal finance and practical life skills that are required to be a competent, successful consumer. Students will learn how to make informed financial decisions related to budgeting, banking, credit, insurance, taxes, and career exploration. An integral component of the financial literacy curriculum is the application of decision-making skills that enables students to become more responsible consumers for lifetime success.

CAR851 FUTURES: Juniors – .50 credit (Graduation Requirement)

In this course, students will learn the skills needed to succeed in the workplace along with what it takes to be an entrepreneur. The curriculum is based on Academic Standards for Career Education and Work mandated by the state appropriated for the 11th grade level, as well as Business, Computer and Information Technology.

CT 510 ACCOUNTING I-10th – 12th grade - 1 cr.

Prerequisite - None

Purpose - To provide basic theory in accounting for practical use.

Content - This course presents the accounting cycle covering both service and merchandising activities of a sole proprietorship. It also analyzes a business transaction from a journal entry through the preparation of the financial statements (income statement, statement of owner's equity, and the balance sheet) to closing journal entries. The course includes but is not limited to, perpetual inventory, accounts and notes receivable, and accounting for plant and intangible assets.

Accounting is the backbone of any business structure and is highly recommended for any student considering a career in the business field.

CT 511 ADVANCED COMPUTER APPLICATIONS- 10th and 12th grade- .50 credit

Prerequisite – Successful completion of 9th grade Computer Applications

This course is designed to provide students with a strong working knowledge of print design and publishing. Students will gain skills in one or more of the following areas: page design, advanced publishing techniques, copywriting, editing and photography while producing a creative, innovative yearbook which records school memories and events. This class is great for the student interested in advertising, journalism, marketing, web design, and desktop publishing. The software applications that will be used include Adobe PhotoShop and InDesign. Scanners, digital cameras, and color printers will be used in this course.

CT503 BROADCAST MEDIA- 9th - 12th grade - This course will include studies in social media broadcasting, media development for school-wide televisions, audio production, and sports broadcasting. Lab experience will include green screen studio, Adobe Premier Pro editing, Adobe Illustrator, video production, field reporting, and Youtube live stream. This course can be level I or II or possibly set as an independent study.

MUSIC

MU715 CONCERT BAND-7th-12th - .50 cr.

Prerequisite - Adequate performance skills on a band instrument. Ability to participate in scheduled rehearsals and performances. Students already playing an instrument will be admitted. New students will be admitted on the basis of the ensemble's instrumentation needs. Some school instruments are available, but most individuals supply their own instrument.

Purpose - To enhance a student's knowledge of music through study and performance of band literature.

Content - Students are introduced to band music of various styles at a level of difficulty appropriate for their level of experience. Public performance opportunities exist for both marching and concert bands. Rehearsals are during activity periods and immediately after school days each week. The fall concert which features holiday related music serves as the mid-term exam for the course. The spring concert serves as a final exam for the course. All performances follow the school activity guidelines. Chair seating is at the director's discretion. Students also receive a graded individual/group lesson one period per 6 day cycle as a pull out

on a rotating schedule. Lesson materials will include lesson books, solo literature, and ensemble music.

Performance Requirements - Students will be expected to participate in all scheduled activities including 6-8 parades per year and three major evening concerts as well as other events which may be scheduled.

MU716 MIXED ENSEMBLE – 9th- 12th grade – .50 cr.

Prerequisite - Must be a member of the Concert Choir. Must have auditioned and been accepted into the group by the choral director in May of the previous year.

Purpose - To provide additional and more intense vocal performance opportunities for students.

Content - Expand on knowledge gained from Concert Choir. Upper level music is chosen for this group and they perform at numerous community and school functions. This course is offered as an after school elective course.

Performance Requirements - Students will be expected to participate in all scheduled activities including two major evening concerts and other school and community service events which may be scheduled.

MU 713 -HIGH SCHOOL CHORUS-9th -12th grade - .33 cr.

Prerequisite - A desire to sing.

Purpose - Provides an opportunity for students to experience and participate in musical performances.

Content - This course is designed to develop the student's knowledge of the elements and terminology of music and to acquire the vocal skills that are necessary to meet the standards of good singing. Music materials are varied and include popular, folk, patriotic, ethnic, and modern music. Rehearsals are during activity period.

Performance Requirements - Students will be expected to participate in all scheduled activities including two major evening concerts.

MU 706 MUSIC ELECTIVE COURSE – 9th-12th grade - .17 – 1 cr.

Prerequisite – Must be able to work independently

Content – Students in this course will choose a specific track to follow based on their specific musical interests. Tracks include **piano, guitar, voice, concert band instrument, and career.**

Pianos and guitars are provided by the school. Students will receive lessons weekly and will be expected to practice diligently during each class period.

Piano

Beginner piano students will learn to play by either following a standard methods book and by using an on-line “play by ear” course. Students with more advanced ability will receive lessons accordingly.

Guitar

Guitar students will be following an online course teaching the fundamentals of guitar level I and level II. More advanced guitarists will learn a specific genre of music including rock, country and the blues.

Voice

Voice students will gain an overview understanding about the art and science of singing, and a basic knowledge about factors conditioning vocal success. This course will include the study of many genres of music, understanding the connection between the anatomy of the voice and good tone production, and positive performance techniques. Students will be assigned repertoire based on their ability. Students must be members of the High School chorus to choose this track.

Concert Band Instrument

Concert band students will learn more extensive solo repertoire specifically designed to advance into a stronger instrumental musician. Students who choose this track must be part of the Concert Band and must have prior approval from the band director.

Career

This track is uniquely designed for students who are considering music as a career choice. This content will prepare students to study music at the collegiate level and will include private lessons, an in-depth study of music theory and an overview of music history.

ART

2-D DRAWING AND DESIGN I- 9th-12th grade- .50 credit

A course in drawing and design focusing on drawing techniques, methods, materials, conceptual development, and the use of the elements of design for creative expression. This is an introductory drawing class focusing on perspective, contour drawing, pen and ink drawing, charcoal drawing, grid drawing, and classical drawing techniques.

Drawing-drawing students will focus on classical drawing techniques such as contour drawing, grid drawing, shading, as well as using a variety of drawing tools.

Design-

2-D DRAWING AND DESIGN II- 10th-12th grade- .50 credit

A course in drawing and design focusing on drawing techniques, methods, materials, conceptual development, and the use of the elements of design for creative expression. This is an intermediate level class that will focus on advanced perspective, contour drawing, pen and ink drawing, charcoal drawing, grid drawing, and classical drawing techniques. This class will have weekly sketch assignments/homework, as well as, a writing assignment featuring a well-known artist.

3-D DESIGN AND SCULPTURE I- 9th -12th grade- .50 credit

A course designed to focus on three-dimensional design and sculpture focusing on creating sculptural works, methods, materials, conceptual development, and the use of the elements of design for creative expression. Some of the projects could include ceramics, carving, junk-art sculpture, jewelry-making, and origami.

3-D DESIGN AND SCULPTURE II- 10th-12th grade- .50 credit

A course designed in three-dimensional design and sculpture focusing on featuring sculptural works, advanced methods, various materials, conceptual development plans, and the use of the elements and principles of design for creative expression. Some of the projects could include a ceramic series, wood carving using chisels and dremel tools, assemblage, jewelry-making, paper-engineering, as well as, a required art notebook.

PAINTING AND PRINTMAKING- 9th-12th grade- .50 credit

This is a course that will focus on painting and printmaking. Some of the painting methods will include: watercolor painting, acrylic, and oil painting. Printmaking methods explored will include: block printing, collographs, solar printing, and monoprints.

PAINTING AND PRINTMAKING II- 10th-12th grade- .50 credit

This is a course that will focus on intermediate painting and printmaking techniques. Some of the painting techniques could include large-scale watercolor, acrylic, and oil painting. Printmaking techniques could include: large-scale block printing, collographs, solar printing, and monoprint series. All students will be required to keep a notebook that will be turned in for a grade on a bi-weekly basis.

CERAMICS, MOSAIC AND TEXTILE/FIBER ARTS-9th-12th grade- .50 credit

A course in mosaic and textile arts focusing on ceramics, mosaic, and textile arts methods, materials, processes, procedures, conceptual development, and the use of the elements of design for creative expression. Projects could include ceramics, mosaics, basket-making, and weaving on looms.

CERAMICS, MOSAIC AND TEXTILE/FIBER ARTS II- 10th-12th grade- .50 credit
Mosaics and Textile/Fiber Arts

A course in mosaic, ceramics and textile arts, focusing on intermediate ceramics techniques, mosaics on a large scale using recycled materials, textile techniques for practical purposes, and the use of the elements and principles of design for creative expression. All students will be required to keep an art notebook and should expect a minimum of one research-based project on traditional techniques and the history of one of these materials/art forms.

DIGITAL PHOTOGRAPHY-9th-12th grade- .50 credit ***USB FLASH DRIVE
REQUIRED. Access to a digital camera (personal camera) preferred as classroom cameras will be limited.

This class will be an introduction to digital photography/digital SLR cameras, as well as, an introduction to the history of photography/photographic techniques. The students will use photo-editing and manipulation techniques with such programs as Adobe Photoshop CS4, as well as, other web-based tools. Projects could include: montage/collage, photojournalism, retouching old photographs, light manipulation versus natural light with an emphasis on the elements and principles of design.

AR677 AP Studio Art: Prerequisite student must have taken one Elective Art class in the past. Students must have approval of the Art Teacher to take the course.

This class is recommended for any students thinking about pursuing a career in the Arts field (such as Art Education, Art Therapy, Graphic Arts, etc) It is an intensive course with the intention of preparing a student portfolio(s) for review by the College Board versus taking a written exam like a traditional AP Course. The AP Studio Art Program consists of three portfolios — 2-D Design, 3-D Design and Drawing — corresponding to common college foundation courses taken during the Freshman year of college. Students will work with a variety of art materials and tools in a two-dimensional and three-dimensional format, with an emphasis on Art History, the Elements and Principles of Art, Art criticism, and building fundamental art skills.

HEALTH, PHYSICAL EDUCATION, DRIVERS EDUCATION

PE804 HEALTH – 10th-12th grade. - .50 cr.

Prerequisite - None

Purpose - To promote acquisition of proper concepts in regard to personal, family, and community health.

Content - This course is concerned with human life and health practices that have a positive and negative impact on one's health. Mental health, human sexuality, tobacco, drugs and alcohol, nutrition, first aid and CPR, are the main units of information in which students will gain knowledge. Making healthy decisions with regards to these concepts of health is emphasized.

PE 803 PHYSICAL EDUCATION – Freshmen - Seniors - .50 cr.

Prerequisite - None

Purpose - To promote physical growth and development as well as the proper attitudes and skills to utilize a sound body effectively.

Content - This course provides instruction in individual and team activities relative to sports. Individual and group games, drills, calisthenics, and recreational activities are offered in addition to periodic fitness tests. The President's Council of Physical Fitness test is administered each year in grades 7-12. An emphasis towards lifetime and recreational activities is directed towards all students.

PE ADAPTIVE PHYSICAL EDUCATION - Special Scheduling determined by the IEP team

Prerequisite - Program prescribed by a physician upon request and approval of the parent and physical education instructor.

Purpose - To provide a program of physical education for students who for medical reasons are unable to participate in a regular program.

Content - This course emphasizes remedial activities approved by the family physician, physical therapist, and/or occupational therapist, under the supervision of the physical education instructor. Classes are very small, and sometimes instruction is individualized. Periodic theory tests may be administered.

PE800 OUTDOOR RECREATION - Juniors and Seniors - .50 cr.

Prerequisite – Passed 9th & 10th grade Phys. Ed. (class size is limited)

Purpose - To introduce students to a variety of outdoor activities they can continue throughout their life while promoting lifetime health and wellness.

Content - The student may participate in activities such as: archery, orienteering, fishing, cross country skiing, snow shoeing, kayaking, golf, hiking, whitewater rafting, horseback riding etc... In addition they will learn safety measures, skill techniques, and participate in each of the activities. Included with the course of study will be guest speakers to share their knowledge and expertise of outdoor education and recreational activities, outdoor recreation career search, and field trips. In class, students may also do snowshoe building, rod-building (fishing), fly tying, and map making.

PE800 FITNESS AND WELLNESS - Juniors and Seniors - .50 cr.

Prerequisite – Passed 9th & 10th grade Phys. Ed. (class size is limited) Students must be passing their scheduled physical education class.

Purpose - To introduce fitness and wellness as a lifetime commitment, recognizing the long term positive benefits.

Content - Each student will develop an individual fitness program and set desirable fitness goals for the semester. Students will learn how to incorporate the different components of physical fitness and nutrition into their program. Students will be introduced to a variety of life-time activities and recognize that physical activity can be enjoyable and fun while benefiting their health. These activities may include hiking, cross country skiing, rollerblading or skating, golf, horseback riding, etc... Guest speakers may include a nutritionist, physician, and athletic trainer who will discuss how inactivity, obesity, poor nutrition and injury have an impact on health and overall wellness.

DE650 DRIVERS EDUCATION – Sophomores - .25 cr.

This course is completed online and is a graduation requirement.

Prerequisite - None

Purpose – This course will inform young drivers of the rules and regulations of driving. It will help them to develop good safety habits when driving a motor vehicle, become more aware of the vehicle needs and responses that are encountered when driving, and take proper care of a vehicle.

Content - Through the use of videos, handouts, and various examples, the young drivers and soon to be drivers will be introduced to the methods of safe driving and proper vehicle maintenance to be able to drive within the requirements of the law and common sense driving habits.

**PDE APPROVED CAREER AND
TECHNICAL EDUCATION PROGRAM IN
AGRICULTURAL EDUCATION**

AGRICULTURAL PRODUCTION OPERATIONS 01.0301

Scope and Sequence: Agricultural Production Operations			
Grade 9	Grade 10	Grade 11	Grade 12
Introduction to Agriculture (1 cr)	Natural Resource Management (.5 cr)	Livestock Care and Management (.5 cr)	Senior Ag Productions (.5 cr)
SAE I (1 cr)	Wildlife Management (.5 cr)	Large Animal Science (.5 cr)	Building Trades (.5 cr)
	Small Animal Care, Management, & Medicine (1 cr)	Horticulture (.5 cr)	SAE IV (1 cr)
	SAE II (1 cr)	Forestry (.5 cr)	
		SAE III (1 cr)	

AG827 BUILDING TRADES– 10th-12th grade- .50 credit

This course will equip you with the basic knowledge of how to build and repair agricultural structures. Topics will include structure building codes and planning, 2x4 framing, electrical wiring, plumbing systems, and land surveying. These skills will be useful to any student, whether they plan to enter the skilled trades, or simply own a home. It is recommended that students first take *Intro to Agriculture*.

AG828 FORESTRY- 10th-12th grade- .50 credit

This course is designed to make students more aware of the latest concepts in forestry science. Topics to be covered include forest regions, tree species, forest management, dendrology, forest technologies, and forest products. For portions of this class, students will be working outside in the park to tap trees to make maple syrup, identify trees, and learn how to take tree measurements.

AG836 HORTICULTURE- 10th-12th grade- .50 credit

Is your green thumb more brown than green? Let's fix that! Topics to be taught in this class will include plant anatomy, plant development and growth, soils, plant reproduction, plant identification, and insect and disease control. Students may also have the opportunity to learn basic floral design skills so they can create their own corsages, boutonnieres, and bouquets.

AG833 INTRODUCTION TO AGRICULTURE- 10th-12th grade- 1 credit

Whether your goal is to be directly involved in the agriculture industry or not, we are all daily consumers and users of agricultural and mechanical products. Being knowledgeable about food, fiber, natural resources, safety and mechanics will benefit you throughout your life. This course

introduces students to prerequisite concepts that are needed for both the Production Operations and Mechanization programs. Therefore, it is the first course a student should take in Agricultural Education. Topics to be covered include FFA, Supervised Agricultural Experience programs, agricultural careers, history of agriculture, shop and tool safety, and the fundamentals of agricultural science and mechanics.

AG826 LARGE ANIMAL SCIENCE- 10th-12th grade- .50 credit

This course is designed to build on the information students have acquired in Livestock Care and Management. Units taught will include livestock reproduction, growth and development, genetics, nutrition, and digestion. Hands-on lessons incorporating animals will be utilized whenever possible. It is recommended that students take Livestock Care and Management prior to Large Animal Science.

AG841 LIVESTOCK CARE AND MANAGEMENT- 9th-12th grade- .50 credit

The purpose of this course is to give students knowledge of livestock species and breeds and how to safely raise those animals in a production setting. Animal behavior and welfare concerns will also be discussed. Hands-on experience with animals and specimens will be used when possible.

SMALL ANIMAL CARE AND MANAGEMENT- 9th-12th grade- .50 credit

Have you always dreamed of a career working with animals? Start your future career as a veterinary technician, farmer, trainer, or zookeeper on the right path with Small Animal Care and Management. This course is designed to introduce students to the history of domestication, common companion animal breeds as well as how to properly handle and care for those animals. Hands-on lessons with animals may be taught when possible.

VETERINARY SCIENCE- 10th-12th grade- .50 credit

Students will continue gaining knowledge of animal care in this course. Students enrolled in this course will be taught animal anatomy and physiology, handling and restraining, physical examinations, disease prevention, control and treatment, and surgical skills. Hands-on experiments with animals and specimens will be used whenever possible. It is recommended that students take Small Animal Care and Management prior to Veterinary Science.

AG839 NATURAL RESOURCE MANAGEMENT- 10th-12th grade- .50 credit

Do you have an interest in the world around you? This course is designed to make students more aware of the needs for conservation of our natural resources. Topics to be covered include biomes, environmental relationships, soil quality and conservation, water quality, air pollution, land pollution, basic wildlife management, alternative energy and fuels, and sustainable agriculture.

AG837 SAE (SUPERVISED AGRICULTURAL EXPERIENCE) I-IV- 9th - 12th grade -
1 credit

Prerequisite- Teacher Approval

The Supervised Agricultural Experience (SAE) program involves real-world agricultural activities done by students outside of planned classroom and laboratory time. SAEs provide a method for students to receive practical career skills in an area of agriculture in which they are interested. Students will show a successful project by keeping records of their work completed, hours invested, and/or wages earned. To be approved for one credit, students will sign a commitment contract and meet requirements laid out by the ag teachers.

AG842 SENIOR AG PRODUCTIONS- 12th grade- .50 credit

This course is designed for students to take their senior year to prepare them for their future after graduation. Topics to be taught include agribusiness, career readiness, resumes, cover letters, filling out job applications, budgeting, and NOCTI prep.

AG 830 WILDLIFE MANAGEMENT- 10th-12th grade- .50 credit

The goal of this course is to provide students with knowledge of wildlife management and conservation. It is ideal for any student interested in a career in the field of wildlife biology as well as students that enjoy hunting, fishing, trapping, or other outdoor recreation. Topics to be covered include the history of wildlife management, identification of mammals, fish, and birds found in Pennsylvania. Management techniques for the preservation and control of wildlife populations and habitat improvement practices will be studied.

****All students enrolled in Agricultural Production Operations classes are automatically considered a member of the FFA.**

ENGINEERING TECHNOLOGY/TECHNICIANS

ENE100 INTRODUCTION TO ENGINEERING - 9th-12th grade- 1 credit

This course is designed to provide students with an understanding of the basics of mechanical engineering, electrical engineering, and computer programming. It is ideal for any student that wishes to pursue engineering as a career, as well as any student that has an interest in technical knowledge. Students will be given the opportunity to work with design software, 3D printing, the simulation, design, construction and analysis of electrical circuits, as well as block programming and microcontrollers. If a student has a vague interest in engineering or any other math and science based careers but is not sure of their exact interest, then this is the class to take.

ENE101 PROGRAMMING 1 - 9th-12th grade- .50 credit

The goal of this course is to provide students with an in - depth understanding of computer programming. Topics will include block programming, text - based programming, memory and variable classifications, functions, inputs, outputs, loops, and digital logic. Programming languages taught will include Stencil, C++, and Python. The students will participate in projects such as designing a simple game and development of an app for their phones.

ENE102 ELECTRONICS 1 - 9th-12th grade- .50 credit

This course is designed to give students hands - on experience working with electrical circuits and basic electronics. Students will learn the theory behind specific circuits and electrical components, as well as use this information in a laboratory setting. Topics covered will include circuit analysis, Ohm's Law, passive filters, and power consumption. Projects will include building an open door alarm and an audio amplifier.

ENE103 ENERGY, POWER, and TRANSPORTATION - 9th-12th grade- .50 credits

This hands - on course will provide students with the opportunity to research, design, build, and compare different approaches to use energy to provide power and transportation. Students will spend a significant portion of the course researching and comparing different modes of transportation (automobiles, motorcycles, airplanes, trains, boats, etc.) and the energy systems used by each. Projects will include electric slot cars and student - built motors.

ENE 110 DRAFTING AND MODELING 1- 10th – 12th grade- .50 credit

Prerequisite- Introduction to Engineering

This course will cover the basics of engineering drafting and 3D modeling. Topics covered will include design conventions, orthographic projections, dimensioning, and use of design software. The students will measure, replicate, and modify existing objects that primarily consist of simple planar surfaces and linear intersections.

ENE201 PROGRAMMING 2 – 9th -12th grade – .50 credit

Prerequisite- Programming 1

This course builds on the topics covered in Programming 1, with a greater focus on memory allocation, use of arrays, and algorithmic efficiency. Hardware based programming will be introduced through the use of Arduino microcontrollers. C++ will be the primary programming language covered.

ENE202 ELECTRONICS 2 - 9th – 12th grade - .50 credit

Prerequisite- Electronics 1

This course will build off of what was covered in Electronics 1 by exploring various AC circuits and comparing them to their DC counterparts. Projects will include building an amplifier from discrete components such as transistors, designing and building an AC to DC power supply, and designing and building an electric motor.

ENE 302 ELECTRONICS 3 - 10th – 12th grade - .50 credit

Prerequisite- Electronics 2

This course will look further into the theory behind the design and operation of the components used in the previous electronics courses. Topics covered will include the atomic structures and functionality of semiconductors and logic gates, oscillator design, and NEC safety standards. Students will design and build a brushless electric motor, construct electrical components such as capacitors and diodes, and troubleshoot designs to determine safety risks and corrective measures that should be taken.

INTRODUCTION TO HEALTH SCIENCES

HS100 INTRODUCTION to HEALTH SYSTEMS and PROFESSIONS - 9th – 12th grade
– 1.0 credit

This is an introductory course to the health care system and its professions. (RN, CRNA, CRNP, PA, MD, DO, RT, PT, OT, Speech Therapy, Dentistry, ATC) The history of medicine, health care policies, insurance, components of health care professions, and legal/ethical issues will be covered.

HS101 MEDICAL TERMINOLOGY- 10th-12th grade- .50 credit

Prerequisite- Honors Biology or Bio II

This course is for students who are interested in health professions. The language of medicine will be explored through reading, understanding, writing and pronunciation. Medical abbreviations, symbols and applications will be covered.

HS102 KINESIOLOGY- 11th-12th grade- .50 credit

Prerequisite- Honors Biology and Bio II

Students will learn human anatomy, specific muscle movements/biomechanics, and how it relates to human life and Newton's Laws of Motion. Students will also learn about

professions stemming from Kinesiology Major/Background. Students will need to study and develop a fluent knowledge of skeletal anatomy and muscular anatomy. Course rigor includes projects concerning the human body and its movements.

HS102- SPORTS MEDICINE- 10th -12th grade- 1 credit

This course will provide students with a foundation of specific concepts related to injury prevention, evaluation, management and rehabilitation. Students will be provided with an overview of the Athletic Training Profession. Instructional focus will be on basic emergency care, first aide, CPR, common athletic injuries, injury assessment and management.

HS103- SPORTS NUTRITION- 9th-12th grade- .50 credit

This course is designed to educate students on leader nutrients and their effects on the individual. Throughout the semester, the students will identify their own nutritional practices and discuss ideas regarding the correction of any poor practices. They will explore nutritional means of disease prevention, nutrition as it relates to physical activity, and facts/myths of nutrition. Students will explore nutrition labels and healthy cooking. Special diets of the young and elderly will be included.

HS104- ADVANCED STRENGTH AND CONDITIONING - 9th-12th grade- .50 credit

This course is designed to follow Sports Nutrition. In this course, students will explore advanced exercise training and conditioning methods that can be employed to improve personal fitness and prevent injury. This course is designed to provide students with knowledge of various strength training programs, techniques, and trends for the development of programs of exercise and activity. Students will explore kinesthetic and psychological assessment of current fitness status and future needs to determine realistic goals for his/her overall development.

INDEPENDENT STUDY CRITERIA

Prior to approval for Independent Study, students must meet the following criteria:

1. The student must have an 85 average or better and have not failed any courses.
2. The student may not take a course they previously failed or take a course offered in the regular core curriculum that can be placed in their schedule.
3. The student must submit a written request to the guidance office with justification for taking the course.
4. Independent study requests must have the approval of the guidance counselor and teacher prior to submission to the principal for final approval.
5. Independent study for gifted students should be included in the gifted IEP.
6. Students may not be taken out of a core class (English, Math, Social Studies, Science) for an independent study course.
7. Specific class requirements and syllabus for the independent study will be developed by the teacher and approved prior to the student beginning the independent study.
8. Students who fail to fulfill the requirements as agreed upon for the course will be removed from the independent study and scheduled into an available class.
9. Independent study must be requested and approved prior to the beginning of classes for a full credit course.
10. Criteria for independent study will be included in the course selection guide.



Benton Area School District
Dual Enrollment/Advanced Placement Contract

Student's Name _____ Grade: _____

The Dual Enrollment Program at Benton Area School District provides opportunities for eligible students in grades 11 & 12 to enroll in post-secondary institutions and take college courses to earn both high school and college credit. The Advanced Placement program also allows students to earn high school and college credit through successfully passing the end of year exam. In order to be eligible for these courses, students must do the following:

- Complete all required prerequisites
- Receive teacher recommendation
- Pass the entrance exam set forth by the post-secondary institution
- Meet with guidance counselor

Fill out the table below by including the courses that you plan to take. **Form due**

College/AP Course Name	Institution	Teacher Recommendation Signature

Guidance Counselor's Signature _____ Date _____

Principal's Signature _____ Date _____

As a parent/guardian I understand that if my child does not complete, or drops a class after the no penalty deadline date of August 20,2021 that I am responsible to reimburse the district for all costs incurred related to that class. The cost of each course varies between \$100-\$500 dollars. **By signing below, I understand that if I choose to drop a course after the selected date, the student and parents/guardians will be responsible to reimburse the Benton Area School District for the full cost of the course, including tuition, books, and fees.**

Student Printed Name _____

Student Signature _____ Date _____

Parent/Guardian Printed Name _____

Parent/Guardian Signature _____ Date _____