BENTON AREA SCHOOL DISTRICT

HIGH SCHOOL ADMINISTRATION

Mr. Guy Moses.....…… Middle/High School Principal
Ms. Mary Rose Latorre...……..Special Education Director

GUIDANCE

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

FACULTY

Mr. Matthew Aten
Ms. Megan Aten
Ms. Michelle Black
Ms. Dianna Brown
Ms. Melissa Chivers
Ms. Jamie Clugston
Ms. BJ Creveling
Ms. Tonya Cumberland
Ms. Lauren Davis
Ms. Jennifer DiLossi
Mr. Greg Fritz
Mr. Tom Gegenhheier
Ms. Christy Gengler
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Ms. Casey Hackett
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Ms. Megan Hargraves
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Ms. Leslie Porter
Ms. Jennifer Posey
Ms. Lisa Shaw
Ms. Fran Swiatek
Mrs. Tara Varner
Ms. Tina Walters
Ms. Stacy Wingfield
Ms. Lindsay Zilenski

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

Schedules will be completed and available to students, no later than Aug 1, 2024. Schedule changes can be made until Aug 23, 2024. After this date, students must carry the course to completion. Difficulty, social reasons, etc. are not reasons to drop a course. The district reserves the right to alter student's schedules based on extenuating circumstances and academic purposes. Second semester classes can be dropped without penalty four school days after semester 2 begins. 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. This applies to the class of 2025 only. Moving forward, all students in the class of 2026 and beyond will need to complete 27 credits to graduate. **The ultimate responsibility for accumulating the appropriate credits is the responsibility of the student.**

CLASS OF 2025

Choose one of the following pathways:		
Lycoming CTC	**Agricultural Productions Track**	**Rehabilitation Aide, Higher Education and/or Engineering Track**
English - 4	English - 4	English - 4
Math - 3	Math - 3	Math - 3
Science - 4	Science - 4	Science - 4
Social Studies - 4	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
Health - .5	Health - .5	Health - .5
Technology - .5	Technology - .5	Technology - .5
Driver's Education - .25	Driver's Education - .25	Driver's Education - .25
Lyco CTC courses - 6.75	Ag CTE courses - 6.25	Electives - 6.25
25 Total Credits	**25 Total Credits**	**25 Total Credits**

CLASS OF 2026 and 2027

Choose one of the following pathways:		
Lycoming CTC	**Agricultural Productions Track**	**Rehabilitation Aide, Higher Education and/or Engineering Track**
English - 4	English - 4	English - 4
Math - 3	Math - 3	Math - 3
Science - 4	Science - 4	Science - 4
Social Studies - 4	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
Health - .5	Health - .5	Health - .5
Technology - .5	Technology - .5	Technology - .5

Driver's Education - .25	Driver's Education - .25	Driver's Education - .25
Elective-1.0	Ag CTE courses - 8.25	Electives - 8.25
Lyco CTC courses - 7.83		
27 Total Credits	**27 Total Credits**	**27 Total Credits**

CLASS OF 2028

Choose one of the following pathways:		
Lycoming CTC	**Agricultural Productions Track**	**Rehabilitation Aide, Higher Education and/or Engineering Track**
English - 4	English - 4	English - 4
Math - 3	Math - 3	Math - 3
Science - 4	Science - 4	Science - 4
Social Studies - 4	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
Health - .5	Health - .5	Health - .5
Technology - .5	Technology - .5	Technology - .5
Writing- .5	Writing- .5	Writing- .5
Driver's Education - .25	Driver's Education - .25	Driver's Education - .25
Elective-.50	Ag CTE courses - 7.75	Electives - 7.75
Lyco CTC courses - 7.83		
27 Total Credits	**27 Total Credits**	**27 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**
English* (choose 1) ☐ English 9 ☐ English 9 (Honors)	English* (choose 1) ☐ English 10 ☐ English 10 (Honors)	English* (choose 1) ☐ American Literature 11 ☐ American Literature (Honors)	English* (choose 1) ☐ British Literature ☐ Penn College English Lit./Comp ☐ Mythology and Folklore ☐ AP Literature and Composition
Math* (choose 1) ☐ Algebra I ☐ Algebra II ☐ Algebra II (Honors)	Math* (choose 1) ☐ Geometry ☐ Geometry (Honors) ☐ Algebra II	Math* (choose 1) ☐ Geometry ☐ Honors Pre-Calc/Trig ☐ Pre-Calc/Trig	Math ☐ AP Statistics ☐ Statistics ☐ AP Calculus
Science* (choose 1) ☐ Biology I ☐ Biology I (Honors)	Science* (choose 1) ☐ Integrated Science ☐ PCNOW Chemistry ☐ Oceanography .5 ☐ Forensics I .5	Science* (choose 1) ☐ Industrial Chemistry ☐ PCNOW Chemistry ☐ Honors Chem II ☐ PCN Anat and Phys ☐ Oceanography .5 ☐ Forensics I .5 ☐ Forensics II .5 ☐ Astronomy .5 ☐ AP Biology ☐ Environmental Science ☐ Applied Physics	Science* (choose 1) ☐ AP Chemistry ☐ AP Biology ☐ Forensics I .5 ☐ Forensics II .5 ☐ Oceanography .5 ☐ Astronomy .5 ☐ PCN Anat and Phys ☐ Environmental Science ☐ Applied Physics
Social Studies* (choose 1) ☐ Civics ☐ Civics (Honors)	Social Studies* (choose 1) ☐ US Contemporary History ☐ US Contemporary History (Honors)	Social Studies* (choose 1) ☐ World History ☐ World History (Honors) ☐ PCN American Govt ☐ PCN Psychology	Social Studies* (choose 1) ☐ Honors History of the Holocaust ☐ World History ☐ World History (Honors) ☐ PCN Govt ☐ PCN Psychology ☐ Career Planning/Contemporary Issues
Physical Education*	Physical Education*	Personal Finance/Futures*	Physical Education (1.5 credits for graduation)
Writing	Drivers' Education*		
Technology(Computer App)* Broadcast Production	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 the Commonwealth Advance College Experience Program. These college courses **do not** replace Benton's course requirements. 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.

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. Students should expect writing assignments that will focus on comprehension, meaning and interpretation. We will also focus on improving basic writing skills such as grammar, composition, 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: *Night and Romeo and Juliet.* 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.

FOUNDATIONS OF WRITING- .50 9th grade required course

This course will develop a variety of skills to prepare a student to effectively complete different types of academic writing assignments. The primary focus will be on the proper use of grammar and punctuation to help develop the foundational knowledge needed for proficiency in writing. Students will complete narrative, reflective, explanatory, and argumentative essays. Students will also be introduced to the basics of research writing while learning to work as writers both independently and collaboratively. This is a composition course focusing on the conventions of academic writing, the composing process, critical thinking, and critical reading. Emphasis will be on reading and writing activities designed to prepare students for successful transition to college level writing.

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: 11th grade - 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. It includes a wide variety of American literature grouped thematically with major works including *A Raisin in the Sun, The Crucible,* and *The Things They Carried.*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 credit

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 grouped thematically with major works including *The Great Gatsby, The Crucible,* and *The Things They Carried.* The instructor will expect students in this course to complete a variety of college style literary analyses, projects, and independent reading assignments. Students will also write research, argumentative, and narrative essays. Finally, a heavy emphasis will be placed on grammatical conventions and vocabulary usage for SAT preparation and formal writing.

EN 152 BRITISH AND WORLD LITERATURE: 12th grade - 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 Mary Shelly's Frankenstein, William Golding' Lord of the Flies and Agatha Christie's And Then There Were None. 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** (1 Benton credit)

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.

EN AP ENGLISH LITERATURE AND COMPOSITION: 12th grade- 1 credit

Prerequisite: **Students must receive the approval of their English teacher to enroll in this course.**
Students enrolled in this course will be required to take the College Board's AP Literature and Composition exam.

AP English Literature and Composition is an introductory college-level literary analysis course. Students cultivate their understanding of literature through reading and analyzing

texts as they explore concepts like character, setting, structure, figurative language, and literary criticism/analysis in the context of literary work. Students taking this course will study various literary texts such as poems, short stories, and novels including, but not limited to, *A Separate Peace, Macbeth, A Handmaid's Tale, The Kite Runner,* and *Their Eyes Were Watching God* (other texts may be explored at the class' discretion). Students should expect an extensive amount of reading and writing to prepare them to successfully pass the exam in May. Due to the large volume of information this course covers, students will be required to complete several assignments over the summer.

EN 157 MYTHOLOGY AND FOLKLORE: 11th-12th grade - 1 credit
****The course may be used to fulfill the 12th grade English requirement**

Angry gods and goddesses. Mighty heroes and heroines. Fantastic beasts. Mythology has been used since the dawn of time across the globe as a way to make sense of the world we live in. This course will explore myths and legends from various cultures throughout history through texts, films, television series, art, and music. A study of contemporary adaptations of classical mythology will also occur, along with other topics selected based on class interest. This course is heavily project and discussion based, but may include tests and quizzes at the discretion of the class/teacher. Students should have an interest in exploring and reading mythology when selecting this course.

SOCIAL STUDIES

SS 102 CIVICS: 9th grade - 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: 9th grade - 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: 10th grade – 1 credit

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: 10th grade – 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 Reconstruction Period 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 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 106 WORLD HISTORY: 11th grade – 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 will complete various projects and activities where analysis and synthesis are incorporated.*

SS 105 HONORS WORLD HISTORY: 11th grade – 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 200 CAREER PLANNING/CURRENT WORLD ISSUES: 12th grade - 1 credit
This course is open to all seniors, but some students will be assigned this course for graduation requirements per PA act 158

Purpose/Content – Students will map out career and life goals throughout this course. By the end of the year students will have created a portfolio of work including resumes, cover letters, job applications, career certifications, and other job related skills. There will also be a focus on personal budgeting and financial planning for students going into the workforce. A major project of this course will include completion of a group service project. The second half of the year will focus on skills related to media consumption and helping to understand current events and issues around our society and globe.

SS400: AMERICAN GOVERNMENT-NATIONAL – PENN COLLEGE NOW COURSE:
11th-12th grade - (1 Benton credit) Penn College Course- PSC131

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

Content- Federal government, its power, and organization. Functions of legislative, executive, and judicial branches. Students examine the historical development of our federal system and analyze the relationships between social forces, government, and political action. 3 Credits (3 Lecture)
No mixed classrooms without AP equivalent course (AP United States Government and Politics)
Enrollment requirement: (B) minimum overall GPA.

SS 109 PSYCHOLOGY/SOCIOLOGY– PENN COLLEGE NOW COURSE: 11th or 12th grade - (1 Benton credit)

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

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 credit

FL201- SPANISH

Prerequisite - It is required that a student receive a passing grade in the 8th grade Conversational Spanish course and that he/she receives the recommendation of the teacher.

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: 1 credit

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.

FL227- FRENCH: 1 credit

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.

SPANISH: 1 credit

Prerequisite - It is required that a student pass Spanish II.

Purpose - To continue and broaden the study of Spanish 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 Spanish. Additional cultural activities are also integrated.

FOREIGN LANGUAGE III: 1 credit

FL228- FRENCH: 1 credit

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 credit

FL229- FRENCH: 1 credit

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: 9th grade 1 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 310 ALGEBRA II: 1 credit

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 credit

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 credit
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 credits

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 306 HONORS PRE-CALCULUS: .50 credits

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 311 AP CALCULUS: 1.5 credits

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 314 AP STATISTICS: 1 credit

Students enrolled in this course will be required to take the College Board's AP Statistics exam.
Prerequisite: Honors Algebra I, Honors Algebra II

Course Description: Advanced Placement Statistics is a course that introduces how data can be utilized to make decisions and conclusions about common occurrences in society. It is expected from this course that students will select methods for collecting and/or analyzing data for statistical inference, describe patterns, trends, associations, and relationships in data, explore random phenomena, and develop an explanation or justify a conclusion using evidence from data. Students are expected to challenge themselves, easily make connections between current

and past concepts, and utilize technology to ensure quick and precise calculations. The course moves at an accelerated speed.

MA 308 STATISTICS: 1 credit

Prerequisite: Algebra I, Algebra II

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.

SCIENCE

SC 402 HONORS BIOLOGY I: 9th grade – 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. A combination of lab experiments, hands-on activities and projects will be utilized throughout the year. Course content is aligned with the assessment anchors for the Keystone Exam for Biology. Students in this course will take the Keystones at the completion of this course. Upon successful completion of the Biology Keystones you will advance to Chemistry.

SC 404 BIOLOGY I: 9th grade - 1 credit

Biology I 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. A combination of lab experiments, hands-on activities and projects will be utilized throughout the year. Course content is aligned with the assessment anchors for the Keystone Exam for Biology. Students in this course will take the Keystones at the completion of this course. Upon successful completion of the Biology Keystones you will advance to Chemistry.

SC### INTEGRATED SCIENCE: 10th grade - 1 credit

This course is designed to provide students with remediation for the Biology Keystone. All students who are not proficient on the Biology Keystone will take this course. Equal time will be spent on reviewing key biology keystone anchors and applied physical science. Students will retest at the end of this course.

SC 417 ENVIRONMENTAL SCIENCE: 11th - 12th grade - 1 credit

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 409 AP BIOLOGY: 11th - 12th grade - 1 credit

Prerequisites
Successful completion of Biology I 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.***

AP Biology is a 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 rapidly changing science of biology. A significant laboratory component will be integrated into the curriculum. The class differs from your original biology class 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 work outside of class.

This is a college-level course and will be weighted 1.06.

SC 415 Penn College NOW ANATOMY AND PHYSIOLOGY: 11th & 12th grade - 1 credit

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

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. Students will have the opportunity to dissect a variety of organs to further their understanding of body systems.

This class is a dual enrollment course. It is a college level course and will be weighted at 1.06.

SC 405: PENN COLLEGE FUNDAMENTALS OF CHEMISTRY (1 Benton credit)
10th-12th grade

Basic principles of chemistry and its practice in the laboratory. Emphasis on matter and how structure determines properties. Designed to teach Chemistry terms and concepts along with analytical and critical thinking skills. **USED AS A NON SCIENCE MAJOR CHEMISTRY COURSE. If you do not plan to work in the healthcare/medical profession, this is the class you should take.** No prior knowledge of chemistry is assumed, but is appropriate for students of all backgrounds. Algebra background is necessary (4 college credits). PCN course CHM100

(Sophomore-approved course)

SC 412 CHEMISTRY II (H): 11th - 12th grade - 1 credit
Prerequisite—Chemistry I (H)

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.

*THIS COURSE SHOULD ONLY BE TAKEN BY STUDENTS WHO ARE INTERESTED IN A MEDICAL FIELD OR THE HEALTHCARE PROFESSIONS.

This is an advanced class with advanced pacing.

SC 407 AP CHEMISTRY: 11th - 12th grade - 1.5 credits

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### Applied Physics: 11th - 12th grade - 1 credit
This course is designed to emphasize the major concepts of Physics while relating them to everyday applications. Topics for this course will include major concepts of forces, motion, energy, power, and simple machines. Heat, sound, magnetism, electricity, and atomic phenomena are other possible topics. Physics will provide the knowledge, prerequisite skills,

and habits of mind needed for problem solving and ethical decision making about matters of scientific and technological concern, as well as provide a foundation for personal career choices. It is NOT intended for students that are going to pursue a 4-year college degree in science, math, engineering, or health care related fields.

SC 418 AP PHYSICS: 11th - 12th grade - 1 credit
Prerequisite—Chemistry I and Pre-Calculus/Trig (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.

SC 421 ASTRONOMY: 11th -12th grade - 0.5 credit

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. This is a half year course. This course is for the pure enjoyment of discussing outer space and the things that are in it. Do not take unless you like talking and taking notes about space!

SC 416 FORENSIC SCIENCE I: 11th -12th grade - 0.5 credit
Prerequisites - Biology and Chemistry Recommended
Forensic Science is a course that introduces students to the application of science to the law. Students will build their teamwork, deductive reasoning, and writing skills with labs that seamlessly integrate forensic science into biology, chemistry, and physics.

SC 430 FORENSIC SCIENCE II: 11th -12th grade - 0.5 credit
Prerequisites - Forensic Science I
Forensic Science is an integrated science course designed to explore the scientific and technological aspects of criminal investigations. Students will expand their knowledge of Forensic Science I topics and furthermore be introduced to new topics through laboratory work and activities. Students will participate in a large-scale project relating to forensic investigation..

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 your ecological footprint, forestry, soil quality and conservation, water quality, air pollution, and alternative energy and fuels. This class will be co-taught by Mrs. Shaw and Ms. Hack. The class size will be capped at 12 students.

AG843 NATURAL RESOURCE MANAGEMENT II: 10th -12th grade - .50 credit

This course continues to explore the natural world around you and addresses environmental issues. Topics to be covered include ecology, ecosystems, weather, and environmental current events. Students will participate in labs and field collection activities along with an energy project.

SC 424 OCEANOGRAPHY: 11th-12th grade - 0.5 credit

Prerequisites - *Biology and Chemistry recommended*

Oceanography introduces students to the physical, biological and geological make-up of our world's oceans and seas. Topics covered will range from the origin and physical structure of the ocean, to the dynamic process of waves, currents, underwater volcanoes, earthquakes and marine ecosystems. In addition, students will investigate real world problems like coral reef bleaching and its impact on marine life worldwide. This course is heavily project based, minimal homework or tests are given.

SC 450 ADVANCED BIOLOGY: 11th-12th - 0.5 credit

Prerequisites - *Biology and Chemistry recommended*

Universal Science is a course designed to explore the common and not so common phenomenon associated with science. We will cover a broad range of topics including but not limited to, microbiology, virology, parasitology, volcanology, seismology, zoology and human anatomy. Students will engage in a variety of assignments including, documentaries and projects.

BUSINESS AND TECHNOLOGY

CT 501 COMPUTER APPLICATIONS: 9th grade - .50 credit (graduation requirement or must take Broadcast Productions)

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.

PF 850 PERSONAL FINANCE/FUTURES: 11th grade - 1 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.

Students will also 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 credit

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 513 FOUNDATIONS OF MARKETING: 10th - 12th grade - .5 cr.

This introductory course is designed to provide students with the insight, skills and knowledge to prepare for a career in marketing/business. This course develops student understanding and skills in such areas as channel management, marketing-information management, market planning, pricing, product/service management, promotion, and selling.

CT 511 ADVANCED COMPUTER APPLICATIONS: 10th and 12th grade - 1 credit

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 - .50 credits (graduation requirement or must take Computer Applications)

Students may choose either the communication through **media broadcasting** or **audio and visual production technology**. 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. Students may choose the **audio and visual production technology** for the performing arts. Students would learn the sound and light board technology. This course can be level I or II or possibly set as an independent study.

MUSIC and THEATRE

MUSICAL THEATRE PRODUCTION: 9th - 12th grade students - .50 credits

Content - This course focuses on mastery of the PA Academic Standards for Arts and Humanities as well as the National Standards for Music Education and the PA Common Core Standards for Reading, Writing, Speaking and Listening. The course is an overview of the main components needed to create, direct and produce a musical. Students will learn musical theater through a multi-tiered approach of exploration, preparation and performance. The students will be exposed to a varied repertoire of plays and musicals. Basic theater terms will be covered. Students will spend time critiquing and analyzing professional performers and performances, as well as their own.

MU715 CONCERT BAND: 7th -12th grade - .50 credits

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 credits

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 705/706 MUSIC ELECTIVE COURSE: 9th-12th grade - .50 – 1 credit

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:

AR 675/676 Art Elective Courses: 9th-12th Grade .05-1 credit

Prerequisite-Must be able to work independently, pre-approval for AP Studio Art

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

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.

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

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 credits *****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.

AR 677 AP DRAWING:

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.

AR 678 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 portfolio choices —Drawing, 2-D Design (photography/graphic arts),3-D Design/Sculpture and — 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

PE 804 HEALTH: 10th -12th grade - .50 credits

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: 9th-12th grade - .50 credits

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.

PE 800 OUTDOOR RECREATION: 11th -12th grade - .50 credits
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.

PE 800 FITNESS AND WELLNESS: 11th -12th grade - .50 credits

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.

DE 650 DRIVERS EDUCATION: 10th grade - .25 credit
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)	Wildlife Management (.5 cr)	Natural Resources Management (.5 cr)	Agriculture, Food, and Natural Resources (1 cr)
SAE I (1 cr)	Small Animal Care & Management (.5 cr)	The World of Plants (.5 cr)	SAE IV (1 cr)
	Veterinary Science (.5 cr)	Livestock Care & Management (.5 cr)	
	Farm to Table (.5)	Large Animal Science (.5 cr)	
	SAE II (1 cr)	SAE III (1 cr)	

AG 836 THE WORLD OF PLANTS: 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.

AG 833 INTRODUCTION TO AGRICULTURE: 9th -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.

AG 826 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.

AG 841 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.

AG 829 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.

AG831 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 your ecological footprint, forestry, soil quality and conservation, water quality, air pollution, and alternative energy and fuels. This class will be co-taught by Mrs. Shaw and Ms. Hack. The class size will be capped at 12 students.

AG 837 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.

AG 842 AGRICULTURE, FOOD, AND NATURAL RESOURCES: 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, basic building trades, biotechnology, career readiness, 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.

AG 850 FARM TO TABLE: 10th -12th grade -.50 credit
Where does your food come from? Chances are you would answer that question by saying the grocery store. But where did it come before that? The average American is three generations removed from the farm. We hear a lot about what we should or should not eat but what do you really know about GMOs, organically vs. traditionally raised, or grain vs. grass finished beef? The main focus of this class is to help you make sound consumer, economic, and nutritional decisions. We will explore food safety at various stages, the steps some of your food takes to get to you, food labeling, and marketing food.

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

ENGINEERING TECHNOLOGY/TECHNICIANS

Scope and Sequence: Engineering Technology / Technicians			
Grade 9	**Grade 10**	**Grade 11**	**Grade 12**
Introduction to	Electronics II/III	Electronics III/IV	Senior Design Project

Engineering (0.5 credit)	(0.5 credit each)	(0.5 credit each)	(1 cr)
Electronics I (0.5 credit)	Programming II/III (0.5 credit each)	Programming III/IV (0.5 credit each)	Energy, Power, & Transportation (0.5 credit)
Programming I (o.5 credit)	Drafting and Modeling II (0.5 credit)	Materials I (0.5 credit)	Physics (1 credit)
Drafting and Modeling I (0.5 credit)	Modern Manufacturing I (0.5 credit)	Modern Manufacturing II (0.5 credit)	Aerospace Engineering (0.5 credit)
		EET 114/115 (1 credit)	

ENE 100 INTRODUCTION TO ENGINEERING: 9th-12th grade - 0.50 credits

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 credits

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 Stencyl and C++. The students will participate in projects such as designing a simple game and development of an app for their phones.

ENE 102 ELECTRONICS 1: 9th-12th grade - .50 credits

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.

ENE 103 ENERGY, POWER, and TRANSPORTATION: 11th-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: 9th – 12th grade - .50 credits

Prerequisite- Introduction to Engineering (can be taken concurrently)

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.

ENE 210 DRAFTING AND MODELING 2: 10th – 12th grade - .50 credits

Prerequisite- Drafting and Modeling I

This course will cover advanced concepts related to drafting and CAD software. Topics covered will include creation of complex surfaces, bodies and intersection, as well as the creation and application of tool paths for various manufacturing techniques. At the completion of this course students will be prepared to take a CAD certification exam through Autodesk.

ENE 211 MODERN MANUFACTURING: 10th – 12th grade - .50 credits

Prerequisite- Drafting and Modeling I

This course will provide students with the opportunity to explore how products are designed, prototyped, and produced in the 21st century. The students will learn the intricacies involved with using tools such as 3D printers, CNC milling machines and laser cutters. Production materials such as foam rubber, carbon fiber, and plywood will also be used to create various objects. The advantages and disadvantages of each production technique and material will be discussed and tested using hands-on experiments.

ENE 212 Materials 1: 10th -12th grade – .50 credits

Prerequisite- Modern Manufacturing 1

This course builds off of the concepts introduced on Modern Manufacturing 1 by enhancing the student knowledge of material properties. Concepts covered will include different types of stress placed on materials (i.e. shear, compression), uses of various materials, and the creating and testing of composite materials.

ENE 201 PROGRAMMING 2: 10th -12th grade – .50 credits

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.

ENE 202 ELECTRONICS 2: 10th – 12th grade - .50 credits

Prerequisite- Electronics 1, Algebra I

This course will build off of what was covered in Electronics 1 by exploring various AC circuits and comparing them to their DC counterparts. Various new electronic components such as capacitors, inductors, and transformers will be covered. 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 electronic project of the students' choosing.

ENE 301/401 PROGRAMMING 3/4: 10th -12th grade – .50 credits (each)

Prerequisite- Programming 2

Programming 3 and Programming 4 will present various topics to the students which they will have the ability to pursue to the fullest level of their individual interests. Topics presented will include different programming languages such as Python and Javascript, app development, algorithmic development and efficiency, hardware programming, web-based game engines, and professional game engines. The student will be responsible for setting, updatings, and recording progress towards personal goals.

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

Prerequisite- Electronics 2

This course will continue to expand on the students' knowledge and skills from Electronics 1 and 2. Topics covered will include applications of transistors such as amplifiers and switches, oscillator design, and multi-nodal circuit analysis. Students will have the opportunity to delve further into electronic topics of their own volition.

ENE 402 ELECTRONICS 4: 11th – 12th grade - .50 credits

Prerequisite- Electronics 3

This class is designed to give the students the opportunity to further refine and develop their knowledge of and skills with electrical engineering through the use of project-based learning activities. Students will be responsible for developing projects that can showcase their abilities, and will present the finished projects to their peers and teachers in a professional manner.

ENE 403 SENIOR DESIGN: 12th grade - 1 credit

Prerequisite- Successful completion of at least 4 engineering electives.

This class will provide the students with hands-on design and manufacturing experience that covers a range of engineering topics. The students will be working in small teams on a variety of projects designed to potentially help themselves, the students, and the overall community. Additionally, the students will be required to develop a final project to demonstrate their knowledge, which will be presented to the school and can be used to represent and promote the engineering program to the community.

ENE 415 AEROSPACE ENGINEERING: 11th and 12th grade - .50 credits

Prerequisite - Mechanical Engineering

This course expands upon the concepts covered in Mechanical Engineering by focusing on an aeronautical context. Topics covered will include thermodynamics, forces, vectors, and Bernoulli's Principle.

ENE 114: INTRODUCTION TO DIGITAL ELECTRONICS: Penn College NOW Course
11th - 12th grade (1 Benton credit) PCN Course- EET 114

Study of basic digital logic devices and systems. Device Symbology, Boolean logic expressions, truth tables and timing diagrams will be examined. Combinational logic circuits and their applications will be analyzed.

Corequisite(s): EET115 (waiver not available)

ENE 115: DIGITAL CIRCUITS APPLICATIONS: Penn College NOW Course 11th - 12th grade(1 Benton credit) PCN course- EET 115

Construction of prototype logic circuits. The measurement of static and dynamic electronic characteristics of devices and systems will be studied. 1 Credit (3 Lab)

Corequisite(s): EET114 (waiver not available)

ENE 116: ELECTRONIC CIRCUITS AND DEVICES I: Penn College NOW Course 11th - 12th grade (1 Benton credit) PCN course- EET 116

Introduction to the basic principles of electronics and common solid state devices. Emphasis on basic electronic parameters such as current, voltage, resistance, inductance, and capacitance. Additional topics include series, parallel, and series/parallel circuits as well as discrete solid state devices, including rectifying diodes, light emitting diodes, photodiodes, zener diodes, bipolar transistors, and thyristors. 5 Credits (3 Lecture – 6 Lab)

ENE 124: ENGINEERING, TECHNOLOGY, AND SOCIETY: Penn College NOW Course 10th - 12th grade (1 Benton credit) PCN course- EET124

Introduction to the basic concepts and applications of computer and engineering technologies and the effects on professional and casual users, their employers and employees, and society. Applied skills include the use of current computer technology for data/information collection and organization; visualization, analysis, and interpretation of numeric computations; and the dissemination and presentation of solutions to engineering technology problems.

REHABILITATION AIDE 51.2604

9th Grade	10th Grade	11th Grade	12th Grade
Introduction to Health Sciences and Professions (1 credit)	**Advanced Strength and Conditioning** (½ credit)	**Emergency Care & Infection Control (Certification Class)** (½ credit)	**Health Sciences and Professions Exploration Co-op** (1.5 credits)
Sports Nutrition (½ credit)	**Kinesiology** (1 credit)	**Anatomy and Physiology Penn College Course** (1 credit)	**Capstone** (1 credit) NOCTI prep
Fitness & Wellness (½ credit)	Health 10 (½ credit)	**Sports Medicine** (1 credit)	**Health Sciences Activities 12** (½ credit)
Health Sciences Activities 9 (½ credit)	**Health Sciences Activities 10** (½ credit)	**Medical Terminology Penn College Course** (½ credit)	
		Health Sciences Activities 11 (½ credit)	

HS100 INTRODUCTION to HEALTH SCIENCE and PROFESSIONS: 9th – 12th grade – 1.0 credit

This Health Science course will introduce students to the Health Science Profession and careers. Classroom instruction includes topics like human anatomy, kinesiology (joint

movements), goniometry skills, medical terminology; therapeutic modalities (cupping, IASTM, massage, TENS, etc.) ; emergency care; approaches to infection control; assessment of vital signs; gait training with a variety of ambulation aids, patterns and activities, braces, and wraps; documentation using SOAP and HOPS notes and medical abbreviations; body mechanics, patient draping and positioning; and guest speakers and introduction to careers.

HS 103- SPORTS NUTRITION: 9th-12th grade - .50 credits

Class size is limited to 8.

This Health Science course will introduce students to the nutritional needs of a young athlete and give a solid foundation of nutrients; carbohydrates; proteins; fats; vitamins; minerals; hydration; dehydration; electrolytes; current diet trends; nutrient timing for pre, during, and post exercising; factors that influence nutritional needs; nutritional needs based on sport type; balancing weight and nutrition; barriers to performance and nutritional health; using nutrition to fuel recovery; performance enhancers and supplements; and cooking a variety of healthy recipes to fuel your body throughout various training stages.

HS 104- ADVANCED STRENGTH AND CONDITIONING: 10th-12th grade - .50 credits

Prerequisites- Introduction to Health Sciences and Professions

Class size is limited to 6.

To develop physically literate individuals who have knowledge, skills, and confidence to enjoy a lifetime of healthful physical activity. This class will build STRONG students that are engaged, educated, equipped, and empowered to develop skills/strengths that will translate to improved performance and knowledge that will manifest in good health & a lifetime of wellness through Health and Strength and Conditioning. Topics that are learned in this class are as follows; descriptive/ medical terminology, joint movements, planes and axes; SMART principle; recording and measuring weight and height; nutrition's role in strong individuals, health factors in physical fitness; strength and flexibility exercises for upper and lower extremities; and proprioception, balance, agility, power and speed training.

HS104: BASICS OF MEDICAL TERMINOLOGY: PENN COLLEGE NOW COURSE: 11th-12th grade - .50 Benton credit

PCN Course MTR104

Prerequisite- Introduction to Health Sciences and Kinesiology

(A class designed for those interested in the medical field.) Must have instructor approval to take the course.

Foundation for the use of the language of medicine, with emphasis on correct pronunciation and spelling, various word parts, abbreviations and symbols, and terms pertaining to body systems.

Etiology, symptomatology, pathology, and diagnostic procedures for identifying various disease processes provide an increased understanding of medically related conditions and procedures.

3 Credits (3 Lecture - 0 Lab)

This class is a dual enrollment course. It is a college level course and will be weighted at 1.06.

Enrollment requirement: (C) minimum overall GPA.

HS 102 KINESIOLOGY: 10th-12th grade - 1.0 credit

Prerequisite- Introduction to Health Sciences and Professions

This Health Science course will introduce students to Kinesiology and will give students a solid foundation of human anatomy, physiology, and kinesiology. Classroom instruction includes topics like basic information; joint movement; goniometry; skeletal system; articular system; muscular system; nervous system; basic biomechanics; shoulder girdle; shoulder joint; hip; knee; elbow; hand; ankle; and foot. Gait analysis and dysfunctions as well as selecting proper assistive devices will be taught. Common disease, injuries, and treatments are discussed throughout this course.

HS 105- SPORTS MEDICINE: 11-12th grade - 1.0 credits

Prerequisites- Introduction to Health Sciences and Professions and Kinesiology

This is a hands-on intense course designed for the Health Sciences pathway program. This course will introduce students to the field of Medicine and gives a solid foundation of several careers in which sports medicine can be applied. Classroom instruction includes topics like medical terminology and abbreviations; human anatomy; emergency procedures; common diseases/ disorders; soft tissue and bone injuries; causes, symptoms, and management of injuries; documentation such as SOAP and HOPS notes; therapeutic modalities; goniometry; and a next level taping course. In addition to this ongoing classroom instruction, students will rotate through on-the-job training in practicums where they will perform tasks that will help them in the real world. Throughout this course, the students' core academic skills and ability to deal with people will be emphasized as well as proper body mechanics and legal and ethical issues.

SC 415 Penn College NOW ANATOMY AND PHYSIOLOGY: 11th & 12th grade - 1 credit

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

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. Students will have the opportunity to dissect a variety of organs to further their understanding of body systems.

This class is a dual enrollment course. It is a college level course and will be weighted at 1.06.

HS 106 EMERGENCY CARE AND INFECTION CONTROL: 11-12 grade 0.5 credit

This is a medical based certification course where students will earn their certifications in AHA CPR, AED, and First Aid, Concussion wise, heatwise, cardiac wise, and Stop the Bleed. Students will identify the components of an Emergency Action Plan (EAP), signs and symptoms, prevention, and treatment of weather-related illnesses, signs and symptoms, prevention, and treatment of head injuries/traumatic brain injuries (TBI's), common causes of cardiorespiratory complications, emergency management techniques for neuromusculoskeletal conditions. Apply (PRICE) principle. Perform proper hand washing technique. Identify various blood borne pathogens and comply with OSHA standards. Utilize personal protective equipment (PPE).

HEALTH SCIENCES ACTIVITIES 9, 10, 11, 12: 9th - 12th grade 0.5 credit (each)

Prerequisite- Teacher Approval (Must be a HOSA member & program participant)

The Health Sciences activities involve HOSA duties, community service/volunteer hours done by students outside of planned classroom and laboratory time. This course provides a method for students to receive practical career skills in an area of healthcare in which they are interested. Students will show a successful project by keeping records of their work completed, hours invested. To be approved for 1/2 credit, students will sign a commitment contract and meet requirements laid out by the rehabilitation aide teacher.

CAPSTONE/ NOCTI PREP: 12th grade (1 credit)
Prerequisite- Teacher Approval **(Must be a program participant)**

This course is a senior level course that polishes the students' acquired skills and strengths in order to excel in allied health post-secondary education and/or the healthcare, wellness and fitness industry. We introduce the students to employee and employer relations. Guest speakers from local healthcare systems and rehabilitation and recreation facilities are hosted. Attitudes, habits and skills of exemplary employees are presented. The student is introduced to on-the-job training regimen and healthcare provider and patient relations are explored. Interview techniques are practiced. Review, design and evolution of the student's resume is performed during this class. Post-secondary education grant applications are researched and highly encouraged to be submitted.

HEALTH SCIENCES AND PROFESSIONS EXPLORATION CO-OP: 12 Grade (1.5 credits)
Prerequisite- Teacher Approval **(Must be a program participant)**

This course is a senior level course that allows students to work for Geisinger (in approved professions). Students must meet all course and graduation requirements, state and federal requirements, and Gesinger requirements to participate in co-op. Students must supply a Rehabilitation Aide Teacher with weekly pay stubs. Students are responsible for transportation to and from work. This is a privilege and can be revoked at any time. Students who are fired from their place of employment will receive a "F" for the marking period and co-op will be revoked.

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 26th 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_____