

GALETON AREA HIGH SCHOOL



COURSE CATALOG

2020-2021

Table of Contents

[*Course and Credit Requirements for Graduation*](#)

[*Grading Scale*](#)

[*Honor Roll*](#)

[*Incomplete Work*](#)

[*Promotion Requirements*](#)

[*Typical Sequence of Courses by Grade and Ability Levels*](#)

[*Dual Enrollments*](#)

[*Art*](#)

[*Business*](#)

[*College and Career*](#)

[*English*](#)

[*Family and Consumer Science*](#)

[*Foreign Languages*](#)

[*Health and Physical Education*](#)

[*Industrial Technology*](#)

[*Mathematics*](#)

[*Music*](#)

[*Reading*](#)

[*Science*](#)

[*Social Studies*](#)

[*CTC*](#)

C+ 80-82 2.5-2.7
D+ 71-73 1.6-1.8
F below 65 0.0

C 77-79 2.2-2.4
D 68-70 1.3-1.5

C- 74-76 1.9-2.1
D- 65-67 1.0-1.2

Honor Roll

Students are recognized for outstanding academic achievement by grade level on the Honor Roll. Students must earn a 3.7 or above grade point average to be eligible for the High Honor Roll. Students earning 3.1-3.6 are eligible for Honor Roll.

Incomplete Work:

Incomplete work must be made up within two weeks after the marking period ends. It is the responsibility of the student to make up the work.

Promotion Requirements

Sophomore Status- must have more than 6 credits

Junior Status- must have more than 11 credits

Senior Status- must have a minimum of 16 credits



Typical Sequence of Courses by Grade and Ability Levels

The chart below presents the typical sequence that Galeton High School students select in the four core subject areas at each instructional level. It is offered as an example to assist students and parents in the scheduling process. **This chart should be used only as a guide. Students' course selections are not limited to the sequence shown.** Each student should consult with his/her teachers, counselor and parents to determine the appropriate courses and sequence that best supports his/her academic and career goals.

Note: Dual-Enrollment (DE)

	Grade 9	Grade 10	Grade 11		Grade 12	
English (Four credits required)	English I	English II	Lit.: Lit in Pop Cult Speech Modern Lit Drama Lit Interp (DE) Classic Lit	Comp.: Basic Comp	Lit.: Lit in Pop Cult Speech Modern Lit Drama Lit Interp (DE) Classic Lit	Comp.: Comp I (DE) Technical Writing
Mathematics (Three credits required)	Algebra IB Algebra II	Algebra II Geometry	Algebra II Pre-Calculus College Algebra II (DE)		Pre-Calculus Calculus (DE) College Algebra II (DE) Statistics and Probability	
Science (Three credits required)	Physical Science	Biology	Chemistry Environmental Science Physics Anatomy & Physiology		AP Biology AP Chemistry Physics Anatomy & Physiology	
Social Studies (Four credits required)	American History	World History	Micro and Macro Economics		American Gov't	

Dual Enrollments

Dual Enrollment is an exciting program that allows high school students to earn credit toward a postsecondary diploma, certificate, or degree at the same time that they are earning their high school diploma.

The Dual Enrollment Program is an opportunity to take challenging courses and to accelerate educational opportunities. Students who successfully complete dual enrollment courses will save time toward their college degree and save money with low cost tuition and free books.

Dual-Enrollment Courses offered:

University of Pittsburgh at Bradford

- Composition I (3 credits)
- Calculus (4 credits)
- College Algebra II (3 credits)
- Literature and Interpretation (3 credits)

Corning Community College

- First Year Experience (3 credits)
- Computer Aided Drafting I (3 credits)

Opportunities to partner with outside universities are also considered.

AP® Courses

AP® courses offer college-level curricula and examinations to high school students. American colleges and universities often grant placement and course credit to students who obtain high scores on the examinations. The AP® curriculum for each of the various subjects is created for the College Board by a panel of experts and college-level educators in that field of study. For a high school course to have the AP® designation, the course must be audited by the College Board to ascertain that it satisfies the AP® curriculum.

AP® Biology

AP® Chemistry

COURSES

NCAA Approved Courses are denoted by **. Any student interested in playing collegiate sports at the Division I or II levels, please refer to NCAA.org for more information.

ART

7th Grade Art

Course Code: 108
Prerequisites: None

7th Grade Art is a required course. It runs daily for one full nine week marking period. 7th Grade Art covers the basics of: Drawing, Painting, Color and Design, Ceramics, Sculpture, Art History, Aesthetics and Criticism.

8th Grade Art

Course Code: 208
Prerequisites: None

8th Grade Art is a required course. It runs daily for one full nine week marking period. In 8th Grade Art, we will continue to explore the following areas: Drawing and Painting, Color and Design, Ceramics, Sculpture, Art History, Aesthetics and Criticism. This class will build and expand upon previous art experiences, knowledge and techniques explored in 7th grade art.

Drawing and Painting

Course Code: 408 Credits: 1.0
Prerequisites: Successful completion of 8th Grade Art (208)

This course will focus exclusively on Painting and Drawing, exploring and employing a variety of 2-Dimensional media including but not limited to watercolor, tempera, and acrylic paints; charcoal, graphite and colored pencil; chalk, marker and pastels. Art History will be an integral part of this course, as well as Aesthetics and Criticism.

Design Art

Course Code: 508 Credits: 1.0
Prerequisites: Successful completion of 8th Grade Art (208)

This course will cover a wide range of the Visual Arts which may include but not be limited to graphics design, photography, printmaking, cartooning and calligraphy. Art

History, Art Criticism and Aesthetics will be incorporated as relevant to assignments and projects.

Sculpture, Clay and Crafts

Course Code: 608

Credits: 1.0

Prerequisites: Successful completion of 8th Grade Art (208)

Sculpture, clay and crafts class will deal with 3-Dimensional art projects. This may include, but not be limited to, ceramics, mixed media sculpture, carving, basketry, and a other non-traditional approaches to sculpture. Art History, as it applies, will be included, along with Aesthetics and Criticism of ongoing work and the work of other artists.

Business/Computers

Digital Citizenship

Course Code: 109

Credits: .25

This course will be a part of the 7th grade rotation. It will prepare students to use technology in an effective and appropriate manner in school, a job or everyday life. Students learn what it means to be a good digital citizen and how to use technology, including social media, responsibly.

Personal Finance

Course Code: 413

Credits: .25

This course will inform students how individual choices directly influence occupational goals and future earning potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets utilizing checking and savings accounts, gain knowledge

in finance, debt and credit management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions leading to financial independence.

Business Math

Course Code: 402

Credits: 1.0

This course is designed to provide students with the mathematical and consumer skills necessary for the real world. This course will reinforce basic math skills and relevance to everyday applications. These skills include the ability to solve mathematical problems, analyze and interpret data, and apply sound decision making skills in helping students fulfill their future role as citizens, consumers, employees, employers, investors, and entrepreneurs. Students will compute mortgage loans, automobile loans, credit card statements, bank accounts, federal and state income taxes, social security taxes, real estate taxes and many other practical consumer applications.

Introduction to Business

Course Code: 421

Credits: 1.0

This course is designed to acquaint students with the activities associated with a business. Students will gather a basic understanding of general business, types of businesses, business finances, business management, business communication, business ethics, economics, entrepreneurship, and the government's role in business, marketing, and consumer responsibilities.

College and Career

Driver's Education

Course Code: 412

Credits: .25

Prerequisites: None

The Driver Education course is thirty hours of classroom and six hours of behind-the-wheel instruction. Students should know and be able to do the following Pennsylvania laws and regulations: knowledge of vehicle operations, perceptual skill development, decision-making and risk reduction, driving conditions, and influences of driver performance.

College and Career Exploration

Course Code: 750

Credits: .25

Prerequisites: None- This course is taken during sophomore year.

Students will explore the world of education and work through learning about career awareness and preparation, career acquisition skills (getting a job), career retention and advancement, as well as entrepreneurship. Students will develop a career portfolio, containing a career plan, applications and resumes.

First Year Experience

Course Code: 751

Credits: 0.5

Prerequisites: This course is a senior elective offered as a dual-enrollment from Corning Community College. Students should be entering their senior year with a "B" average to be eligible.

This course is designed to facilitate intellectual and social integration of college-bound students in the academic community. It provides specific methods and strategies which students may adopt to promote personal growth and success in both the college environment and throughout life. This course will help students to analyze their strengths, increase self-motivation, improve self-management, develop emotional intelligence and master effective study skills.

English

English 7

Course Code: 100

Prerequisites: None

English 7 is a course that introduces middle and high school writing expectations to the incoming seventh grade students. This includes the ability to clearly present ideas in both oral and written form. In this class, students will learn the writing process, the research process and the aspects of good writing. Topics of review in this course include strong focus, well-developed content and good organization. Students will also explore style, study conventions and study grammar.

English 8

Course Code: 200

Prerequisites: Successful completion of English 7

This class is a survey of various types of writing, including informative, narrative and persuasive essays, poetry, and fiction. Students will also read a variety of fiction, nonfiction, opinion, and poetic compositions. The class also includes vocabulary study, including knowledge of root words and affixes. Standard grammar usage is studied and practiced. Speaking and listening activities, such as speeches, interviews, and group presentations are assigned as well.

English I**

Course Code: 300

Credits: 1.0

Prerequisites: Successful completion of English 7 and 8

English I introduces the high school student to literature. Students will read and analyze short fiction, nonfiction, poetry and plays. Students will also complete a research project, complete a speech unit and read and respond to novels. During the course of the year, students will also write various pieces that will allow the students to explore their own writing abilities as they work on their deficiencies.

English II**

Course Code: 400

Credits: 1.0

Prerequisites: Successful completion of English I

This class continues the survey of literature begun in English I. Students will read contemporary and classic fiction, nonfiction, poetry, and drama by both British and world authors. Students will write a variety of compositions, including research papers, responses to literature, and expository essays. Students will study vocabulary in the

context of literature assignments. They will identify and practice Standard English usage, prepare and deliver speeches, and organize and present group projects.

Basic Composition**

Course Code: 500

Credits: 0.5

Prerequisites: Successful completion of English II. This course will count as a Composition credit.

This course offers an introduction to summary and paragraphs, library skills, composition or organized essays, and revision and proofreading. Organization, structure, focus, content and grammar and mechanics will be the primary areas of study.

Speech**

Course Code: 511

Credits: 0.5

Prerequisites: Successful completion of English II. This is an elective course.

Students will learn and practice basic speaking techniques. Assignments will include debates, group skits and discussions, oral interpretation, dramatic performances, and informational and persuasive speeches. Methods of proper research, formal versus informal language, and other topics will be covered.

Literature in Popular Culture

Course Code: 515

Credits: 0.5

Prerequisites: Successful completion of English II. This is a Literature credit.

Recommended for college-bound students.

Literature in Popular Culture is a survey course in which students will explore works which are commonly referenced in popular culture. These works will include a variety of

genres, such as Comedy, Horror, Mystery, Science-Fiction, and Romance. Examples of topics open for study include the mythology of various cultures, legends, fairy tales, and several short story and novel selections. In addition, students will study the popular culture references of these works, such as songs, movies, and games.

Modern Literature- 1950's to Present**

Course Code: 527

Credits: 0.5

Prerequisites: Successful completion of English II. This is a Literature credit.

This course offers a study of different literary genres from the 1950's through the present day. The works include poetry, screen plays, songs, and other forms of writing with a primary concentration on the novel. This course focuses on the comprehension and analysis of literature.

Drama

Course Code: 530

Credits: 0.5

Prerequisites: Successful completion of English I. This is a Literature credit.

Recommended for college-bound students.

This course offers a study of plays, playwriting, acting, and other aspects of theatre. It will include the comprehension and analysis of plays from ancient Greece through the present. It will include backstage aspects along with play interpretation. Participation in the fall play will be mandatory.

Composition I **

Course Code: 600

Credits: 0.5

Prerequisites: Successful completion of Basic Composition. This is a Composition credit.

This course is also offered as a dual-enrollment from the University of Pittsburgh at Bradford (Eng 0101).

This course offers an emphasis on the writing process and working independently. There is one writing assignment per week. This course focuses on how to make and develop a subject and how to present and arrange material. The Senior Research paper is a requirement for this course and graduation. This is a composition credit.

Technical Writing

Course Code: 622

Credits: 0.5

Prerequisites: Successful completion of Basic Composition. This is a Composition credit.

Students will learn writing rules and apply them to informational and business writing for communication purposes. The course will include various technical writing assignments including Senior Research Paper completion. This course fulfills the half year composition requirement, and it is not recommended for students continuing their education at a four-year college or university.

Literature and Interpretation **

Course Code: 614

Credits: 0.5

Prerequisites: This course is offered every other year. Successful completion of English II with at least an A or a B. This is a Literature credit. This course is offered as a dual-enrollment from the University of Pittsburgh at Bradford (ENG 0110).

This course is an examination of the ways in which both literary and nonliterary texts create meaning and an introduction to some of the methods of literary interpretation. Beginning with literary concepts like genre, narrative, character, and figurative language, this course considers the interaction among the reader, the writer, and the text itself, and between different texts.

Classic Literature

Course Code: 518 for college-prep track/ 5181 for Gen. Ed. Track

Credits: 0.5

Prerequisites: For the college prep track, students must have passed the Literature Keystone Exams, and have earned an overall 85% GPA, and an 83% or better in English II. This course is available only for 11th or 12th grade students.

This class will be run in two tracks, with one track available for general education literature credit and one track offering a more stringent course load available for weighted credit. Students will be responsible for reading the books in class and making sure that they have the assigned chapters done by Friday. Fridays will include a class discussion that will be graded. Discussions can be made up by answering the questions that were included in the class discussion. Other graded work will be essays, projects, and other assignments. An overnight trip is a likely component of this class and will be treated as part of the class. The books that the class will read tentatively may include: *The Haunting of Hill House* by Shirley Jackson, *Dracula* by Bram Stoker, *In Cold Blood* by Truman Capote, and *A Clockwork Orange* by Anthony Burgess.

Family and Consumer Science

Family and Consumer Sciences I

Course Code: 410

Credits: 1.0

Prerequisites: None

Main emphasis in class will be planning, preparing, and serving food using various techniques. Other areas covered are intermediate sewing projects with sections on purchasing and care of garments. Units on housing, childcare, taxes, and money management are covered depending on the experience and needs of the students.

Foreign Languages

Students may take foreign language, which will be offered through online courses using Edison Learning. Courses available are:

- Spanish I, II, III, and IV
- French I, II, III, and IV
- German I & II

Health and Physical Education

Physical Education- Grade 7 & 8

Course Code: 107

Prerequisites: None

The students will actively participate in various athletic, recreational and lifetime activities. The classes should be as grade specific as possible.

Physical Education- Grade 9-12

Course Code: 307/507

Credits: 1.0

Prerequisites: None

The students will actively participate in various athletic, recreational and lifetime activities. The classes should be as grade specific as possible.

Fitness

Course Code: 522

Credits: 1.0

This course is designed to give students the opportunity to learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of strength training, aerobic training, and overall fitness

training and conditioning. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

Personal Growth

Course Code: 111

Prerequisites: None- This is an exploratory course for 7th graders.

Students will analyze how personal and family values, standards and goals are inter-related. They will understand the effects of peer pressure and recognize the role of self-esteem in decisions and choices. Students will practice positive ways to communicate with others and learn strategies to understand and deal with emotions constructively.

8th Grade Health

Course Code: 216

Prerequisites: None

The students will learn about relevant health topics ranging from alcohol, drugs, eating disorders, various diseases and safety issues.

10th Grade Health

Course Code: 416

Credits: 0.25

Prerequisites: None

The students will learn about relevant health topics ranging from alcohol, drugs, eating disorders and various diseases.

Industrial Technology

Industrial Technology 8

Course Code: 216

Prerequisites: None- This is an 8th grade exploratory course.

This class will provide an introduction into the world of Industrial Technology. Students will be using a very hands-on approach, working with tools and machines. Students will start the class with an introduction to drafting and design. From there, they will move into the shop where they will construct a project made of wood. The students will also have a chance to build a small metal project.

Wood Technology I

Course Code: 509

Credits: 1.0

Prerequisites: None

This course will be an entry-level wood working class. Students will learn to build several wood projects, comprising of several wood working techniques. Students will have the chance to complete several projects, learning how to safely operate all the machines in the shop. Students will also have the chance to build individual projects for the second half of the year.

Wood Technology II

Course Code: 609

Credits: 1.0

Prerequisites: Successful completion of Wood Tech I

This course will be an advanced wood working course. Students will learn several wood joints that only experts use. Dovetail joinery and box joints will be used extensively in this school. Students will construct several class projects, but the majority of the time working on individual projects.

Metal Technology

Course Code: 517

Credits: 1.0

Prerequisites: None

Students will be working in metal, learning the basics of metal-working. Items that will be taught will be welding, brazing and gas cutting. Students will fabricate several projects out of steel. Sheet metal work will also be taught. Students will have the chance to construct several individual projects as well.

Drafting: Design and Application

Course Code: 513

Credits: 1.0

Prerequisites: None

This course will cover construction computer-aided drafting and design, utilizing the Revit software. Students will work through the Revit textbook and will supplement learning by completion of construction- related projects.

Computer Aided Drafting I

Course Code: 640

Credits: 1.0

Prerequisites: This course is a junior or senior elective offered as a dual-enrollment from Corning Community College (CADD1700).

Introduction to computer aided design (CAD) techniques. Teaches commands necessary to generate two-dimensional engineering drawings and three- dimensional parametric models using a solid modeling program (SolidWorks).

Mathematics

Math 7

Course Code: 215

Prerequisites: None

This course is aligned with the PA Core Standards and Eligible Content. Course content includes but is not limited to: Geometry, Probability, Statistics, Ratio Relationships, Proportional Relationships, Number Systems, Expressions, Operations, Equations, and Inequalities. Daily homework and a Final Exam will be given.

Math 8

Course Code: 301

Prerequisites: Successful completion of Math 7

This course is aligned with the PA Core Standards and Eligible Content. Course content includes but is not limited to: The Number System, Expressions and Equations, Linear Equations, Functions, Geometry, Statistics and Probability. Daily homework assignments, quizzes, and a final exam will be given.

Algebra I**/ MS Algebra I

Course Code: 302/305

Prerequisites: Eligibility for MS Algebra is determined by data, such as PVAAS predictors, CDT and PSSA scores.

This course is aligned with the PA Core Standards and Eligible Content. It is also aligned with the Keystone Exams: Algebra 1 Assessment Anchors and Eligible Content. Course content includes but is not limited to: Operations with Real Numbers and Polynomial Expressions; Writing, solving, and graphing Linear Equations, Linear Inequalities, and Systems of Linear Equations and Inequalities; Functions; Coordinate Geometry; Probability; Statistics; and Data Analysis. Daily homework, a Midterm Exam, and a Final Exam will be given. Passing the Course is a prerequisite to taking either Algebra 2 or Plane Geometry.

Algebra II**

Course Code: 505

Credits: 1.0

Prerequisites: Successful completion of Algebra I

This course is a continuation of Algebra I and is intended to develop the concepts of real numbers, linear and quadratic equations, formulas, exponents, factoring, graphing, system of equations, inequalities, word problems, matrix operations, sequences, trigonometry, and applications.

Plane Geometry**

Course Code: 405

Credits: 1.0

Prerequisites: Successful completion of Algebra I

Content includes measurements of 2 and 3 dimensional figures, coordinate geometry; right triangle geometry, congruence, similarity, properties of circles, spheres, cylinders, cones, polygons, and polyhedra. Also included are properties of parallel, perpendicular lines, transformations, logic, and proofs. (Some topics of Algebra II will be presented as needed).

Pre-Calculus**

Course Code: 605

Credits: 1.0

Prerequisites: Successful completion of Algebra II and Geometry

In this course, students will gain the knowledge needed to master Calculus. The topics covered include linear, polynomial, rational, exponential, and logarithmic, sequences and series, with a serious emphasis on trigonometry. As a part of this course, students will extensively cover real-world applications of these math concepts.

College Algebra II**

Course Code: 535

Credits: 1.0

Prerequisites: Successful completion of Algebra II, Pre-calculus is recommended. This is a Dual- Enrollment course offered through Pitt- Bradford.

This course will provide students with an understanding of linear, radical, quadratic, exponential and logarithmic functions and their graphs. Students will also study rational expressions, rational exponents, linear and compound inequalities, solving systems of linear equations and solving quadratic equations. A grade of C- or better is needed to earn the 3-credit hours.

Calculus**

Course Code: 705

Credits: 1.0

Prerequisites: Successful completion of Pre-Calculus. This course is offered as Dual-Enrollment through Pitt- Bradford.

Students will be presented with the fundamental concepts of calculus utilizing the basic techniques of differential and integral calculus, and to establish the important relationship between the derivative and definite integral. Topics include limits, derivatives, rules of differentiation, maximum and minimum problems, integrals, area under a curve, and applied problems. A grade of c- or better is needed to earn the 4.0 credit hours.

Probability and Statistics**

Course Code: 615

Credits: 1.0

In this course, students will learn basic concepts of probability and inferential statistics as well as descriptive statistics. The topics will be introduced through real-world applications in a wide range of fields.

Music

General Music 7

Course Code: 113
Prerequisites: None

7th grade music is a required course that is part of the 7th grade exploratory rotation. Students will learn music fundamentals and basic guitar technique as well as the history of the instrument and how it is made. By the end of the course students should be able to play 14 notes and 3 chords.

General Music 8

Course Code: 311
Prerequisites: None

8th Grade Music is a required course that is part of the 8th grade exploratory rotation. Students will explore many different forms and styles of music while developing the ability to substantiate their musical opinions based on listening and analysis. Students will also develop empathy and appreciation through exposure to music from a variety of cultures and time periods.

High School Band (Grades 7-12)

Course Code: 700 Credits: 0.5
Prerequisites: Participation in band the previous year OR permission from the band director-Only 9th-12th graders will earn credit.

The mission of the Galeton Area High School Band is to provide students in grades 7-12 the opportunity to become literate musicians on their respective instruments and positive, productive members of an instrumental ensemble. Through lessons, rehearsals and performances, students will have a multitude of experiences that will aid them in growing as musicians both individually and as part of an ensemble. As part of the band, students will have the opportunity to play a variety of music including classical, multicultural and popular tunes at four parades and two concerts throughout the year.

High School Chorus (Grades 7-12)

Course Code: 701 Credits: 0.5

Prerequisites: None - Only 9th-12th graders will earn credit.

The mission of the Galeton Area High School Chorus is to provide students in grades 7-12 the opportunity to become literate musicians and positive, productive members of a vocal ensemble. Through ensemble rehearsals, sectionals and performances, students will have a multitude of experiences that will aid them in growing as musicians both individually and as part of an ensemble. As part of the chorus, students will have the opportunity to sing a variety of music including classical, multicultural and popular songs at two concerts throughout the year.

Reading

Reading 7

Course Code: 103

Prerequisites: None

Each marking period will include an extensive study of a novel and additional smaller units, both geared to increasing literacy and communications skills. There is a thematic unit that highlights resiliency along with simple units about study skills, various genres, and mythology.

Reading 8

Course Code: 203

Prerequisites: None

Reading 8 continues the study of themes and genres that support the English 8 curriculum. Students will read, comprehend, and analyze modern trade novels as a class, in groups, and independently.

Science

Life Science – 7th grade

Course Code: 104

Prerequisites: None

This course is an introduction to the living world. Topics covered are cells, DNA, genetics, body systems, classification, and changes in the environment. Students should learn about the life around them and form a basic understanding of how living things exist.

Earth Science- 8th grade

Course Code: 204

Prerequisites: None

Maps are emphasized throughout fundamental units on geology, tectonics, the earth's changing surface, freshwater resources, oceanography, meteorology, and astronomy. Some lab work is required.

Physical Science**

Course Code: 304

Credits: 1.0

Prerequisites: None

Physical Science requires one semester of introductory chemistry and one semester of introductory physics. The chemistry topics include: matter, chemical bonding, periodic table of the elements, and an overview of chemical reactions. The physics topics include: Newton's laws of motion, energy, forces, work and machines. Both semesters place emphasis on safe and efficient laboratory procedures.

Biology**

Course Code: 404

Credits: 1.0

Prerequisites: Successful completion of Physical Science

This course is intended to give students an overview and understanding of the biological sciences. Main topics for the course include characteristics of life, photosynthesis, cellular respiration, the cell cycle, genetics, and ecology.

Students in the course will be tested with the Keystone-Biology exam upon completion

Chemistry I**

Course Code: 503

Credits: 1.5

Prerequisites: Successful completion of Biology and a B (3.1) in Algebra I and II

Safety procedures and laboratory technique are emphasized throughout this course. The topics of study include: matter, energy, measurements, nomenclature, stoichiometry, chemical reactions, chemical composition, atomic theory and electron orbitals, chemical bonding, gas laws, and chemical solubility.

AP[®] Chemistry **

Course Code: 606

Credits: 1.0

Prerequisites: Successful completion of Chemistry with a B (3.1) or higher

Safety procedures and laboratory technique are emphasized throughout this course. The topics of study include: chemical reactions, oxidation and reduction reactions, pH, intermolecular forces, electrochemistry, nuclear chemistry, and organic chemistry

AP[®] Biology**

Course Code: 604

Credits: 1.0

Prerequisites: Successful completion of Biology and Chemistry with a B (3.1) or higher in both courses.

This is a college-prep elective designed to prepare students for a career in biology field. Topics covered in the course are cellular biology, DNA structure, genetics, genetic engineering, and scientific writing.

Environmental Science**

Course Code: 512

Credits: 1.0

Prerequisites: Successful completion of Biology

This course is intended to teach students about the environment and how we interact with it. Topics of study include forestry, wildlife management, ecology, sustainability, energy, natural resource management, and wildlife identification.

Physics**

Course Code: 603

Credits: 1.0

Prerequisites: Successful completion of Algebra II and Pre-Calculus with a B (3.1) or higher

Students will be presented with the basic concepts and principles of classical mechanics and modern physics, and to strengthen their understanding of the concepts through a broad range of applications to the real world. Topics include measurement, SI metric system of units, rectilinear motion, vectors and projectile motion, Newton's laws, work and energy.

Anatomy and Physiology

Course Code: 716

Credits: 1.0

Prerequisite: Successful completion of Biology with a B (3.1) or higher

Anatomy & Physiology is a yearlong course that provides students an opportunity to explore the intricate and sophisticated relationship between structure and function in the human body. Laboratory activities reinforce concepts and principles presented in the course.

Social Studies

Geography – 7th

Course Code: 101
Prerequisites: None

This course introduces students to basic social studies and geography skills.

Civics – 8th

Course Code: 201
Prerequisites: None

This course introduces students to principles of citizenship, government and economics.

American History – 9^{th**}

Course Code: 301
Prerequisites: None

Credits: 1.0

This course is a survey of American History 1787 to present.

World History – 10^{th**}

Course Code: 501
Prerequisites: None

Credits: 1.0

This course is a survey of world history 1740 to present.

Micro-Economics– 11^{th**}

Course Code: 502
Prerequisites: None

Credits: 0.5

This course focuses on the study of the choices made by economic factors such as households, companies, and individual markets.

Macro-Economics- 11^{th**}

Course Code: 506
Prerequisites: None

Credits: 0.5

This course focuses on the study of the choices made by economic factors impacting entire economies or one of its sectors.

American Government – 12^{th**}

Course Code: 611
Prerequisites: None - Dual- Enrollment offered through Penn Highlands Community College.

Credits: 1.0

This course covers the foundations of American government, constitutional heritage, the development of the U.S. political system, the three branches of government, the making of public policy, civil rights and liberties.

Comparative Global Politics

Course Code: 520

Credits: 1.0

Prerequisite: Student must have completed World History with a B or better

Students will study current and historical political ideologies and events which deal with systems of governance and the analysis of political activities, political thoughts, and political behavior. This course will be considered an elective.

Global Conflicts Impact on US Interests

Course Code: 523

Credits: 1.0

Prerequisite: This course is available for 10th-12th graders. Ninth grade students are eligible with teacher permission.

This class will analyze and discuss the conflicts from around the world using the Global Conflict tracker website. Students will investigate strategies to mitigate the possible prevention of armed conflicts where U.S. interests may be involved. Students will evaluate policies and recommendations that are realistic and workable. On an average, there are 25 to 30 conflicts, of various topics, occurring at anytime throughout the world, ranging from geopolitical, violent extremism, cyber-attacks or deadly technologies.