

# PROGRAM OF STUDIES

2016 - 2017



**Central Columbia High School**

# ENGLISH

## **101 COMPOSITION GRADE 9 - Required**

### **1.0 CREDIT**

Through the study of quality literature of various genres, different time periods and diverse authors, students broaden their understanding of themselves and their world, improve their vocabulary, strengthen their oral and written communication, and deepen their ability to analyze and comprehend what they read. The course also focuses on review and reinforcement of grammar and usage skills, further development of composition techniques and abilities, improvement in research and library science competence, and enhancement of self-worth and career potential through literature enrichment.

## **102 GRADE 10 LITERATURE - Required**

### **1.0 CREDIT**

English 10 is a required course for sophomores and a Keystone course. Through the close readings and examinations of fiction, nonfiction, poetry and drama, students will deepen their understanding of essential literary concepts. An increased level of formal literacy will challenge students to support their well-informed opinions on social issues, while discovering their individuality through analytical readings and thorough discussions.

## **104 ENGLISH 11 - Required**

### **1.0 CREDIT**

American Literature offers the finest in traditional, classical American authors, as well as a good representation of quality modern writers. The course begins with a chronological approach to literature and includes a contemporary or historical perspective, linking past to present. The history of the time period is presented in conjunction with various writings, which are often perceived to be a reflection of the political, social, and philosophical events of the day. Reader-response strategies are presented to help students connect their own experiences with the selections. Opportunities for personal and critical responses as well as integrated workshops for writing, reading, vocabulary and study skills are vital. Several novels are included for deeper analysis of a theme or culture.

## **109 WORLD LITERATURE I – English Elective**

### **0.5 CREDIT**

World Literature I is a senior level English course designed for students to confront some of the essential questions of life through the study of world literature (fiction and nonfiction). The structure of the course is literature-based, using major full-length works with themes derived from essential questions for each unit. These major works, including dramas like *Oedipus Rex* and *Hamlet*, are supported with shorter pieces that promote different perspectives for the essential questions. Academic reading, writing, and study skills are promoted throughout each unit, as well as vocabulary study and technology applications. Student activities include but are not limited to class discussion, short in-class writings, a personal reflection essay, multi-modal projects, and research, as well as traditional tests, both objective and subjective.

## **109A WORLD LITERATURE II – English Elective**

### **0.5 CREDIT**

World Literature II is a senior level English course designed for students to confront some of the essential questions of life through the study of world literature (fiction and nonfiction). The structure of the course is literature-based, using major full-length works with themes derived from essential questions for each unit. These major works, including *1984* and *Night*, are supported with shorter pieces that promote different perspectives for the essential questions. Academic research and writings skills are honed with an argumentation unit, including a review and utilization of current library research resources. Academic reading and study skills are promoted throughout each unit, as well as vocabulary study and technology applications. Student activities include but are not limited to class discussion, short in-class writings, research-based writing, as well as traditional tests, both objective and subjective.

## **114 VIDEO PRODUCTION – Pathway elective only ~ May not be used for English credit**

### **0.5 CREDIT**

The Video Production course is designed to help students in the understanding, preparation, and presentation of video “packages” used in the film/television industry. Its aim is to show students how to use video to send effective messages. Using both conceptual learning and skills development, students learn the tools, techniques, and terminology of video production by producing field production “packages,” some of which may be used in video contests and/or promotional video for community organizations such as the United Way. In addition, students examine the growth of television/film technology and its effect on viewing habits as well as discuss the range of career opportunities in the television/film industry.

## **115 JOURNALISM – English Elective**

### **0.5 CREDIT**

Journalism is a writing-intensive course designed to provide students with an in-depth knowledge of the many facets of the publication process including, but not limited to, mass media, ethics and legality, journalistic trends and issues, journalistic writing styles, the editorial process, as well as interviewing and reporting.

## **116 SHAKESPEARE – English Elective**

### **0.5 CREDITS**

Shakespeare focuses on the PA Core Standards for English Language Arts. This course offers a focused study of everything Shakespeare: poetry, drama, biography, and controversy. The course will cover the sonnet form made popular by Shakespeare, the dramatic technique perfected by Shakespeare, the details of the life of Shakespeare, and finally the controversy of the authenticity of Shakespeare.

## **120 ENGLISH 9 HONORS (Students must meet specific entry requirements)**

### **1.0 CREDIT**

Ninth Grade Honors English is designed to meet the needs of the student who has demonstrated superior ability in language arts. The pace of the course is geared to the student who reads and writes well. Areas to be covered in class include vocabulary, grammar, composition, and literature. Entry requirements include a final grade of 93% or better in 8th grade English and successfully passing the entrance exam.

## **121 GRADE 10 HONORS LITERATURE**

### **1.0 CREDIT**

Designed for the self-motivated learner who has demonstrated an ability to read well and grasp concepts quickly, Honors English 10 compresses four courses (American Literature I and II, Introduction to Communications, and Classic American Novel) into one. This course centers on the rich and diverse literature of the United States. Students are assigned two American classics for summer reading prior to the commencement of classes in the fall. Students are also required to read four classic American novels and two full-length plays during the course of the year. Shorter reading assignments are completed both in and out of class. Vocabulary studies are drawn from the literature, used in context, and reinforced in separate exercises. A short research paper (MLA style) is required of each student, in addition to numerous other papers and poems of various types – expository, persuasive, narrative, and descriptive – that seek to challenge the student to think creatively. Honors English 10 places heavy emphasis on improving oral communication skills through such activities as the memorized retelling of a Native American legend, panel discussions, debates, and parliamentary procedure.

## **122 ENGLISH 11 HONORS**

### **1.0 CREDIT**

Honors English 11 is the third in a series of honors courses. Course content covers British literature from the Anglo-Saxon period to the present. Students read short stories, poetry, essays, and plays along with five expanded units, two in Shakespeare and three in the novel. Preparatory summer reading consists of at least two novels and a Shakespearean play. Students should possess an enjoyment of literature, appreciation of the written word, and a desire to enlarge their familiarity with major British and world authors. Students also should desire an opportunity to sharpen their communication skills through writing, oral presentations, and other avenues.

### **123 AP ENGLISH (Teacher Recommendation Required)**

#### **1.5 CREDITS**

AP English is the culminating course in a series of honors courses designed to challenge and motivate students with specific abilities in the field of English. The design of the course is such that it will meet the academic/college preparatory English requirement for the senior year and provide students with opportunities to develop and practice the critical thinking, reading, and writing skills necessary for successful completion of the national AP exam given in May each year. Course content includes an integrated curriculum of reading, writing, creative expression, vocabulary, critical thinking, and public speaking activities derived from a study of world literature from the sixteenth century to the present. Students will read full-length works of poetry, nonfiction prose and fiction, literary criticism, and nonfiction essays. In addition to writing frequently for a variety of purposes, students will also practice test methods for the AP exam, including the multiple-choice literary analysis and comprehension section. It is expected that all students who are enrolled in AP English will take the AP exam. AP English begins in early June. Therefore, enrollment must be completed by the last day of the school year preceding the start of the course.

### **131 WRITING SEMINAR – English Elective**

#### **0.5 CREDIT**

Writing Seminar is a creative writing course that builds on the techniques of written communication learned in prior English courses. To succeed in Writing Seminar students should enjoy the writing process with the aim of publication in mind. Students who elect to take Writing Seminar should possess a strong desire to explore various writing genres and authors' works, as well as above average understanding of the usage and mechanics of the English language. Critical readings from multiple genres and multiple forms of literary analysis enrich the course's main focus: multiple forms of creative writing of publishable quality.

### **132 SUPERNATURAL LITERATURE – English Elective**

#### **0.5 CREDIT**

Supernatural Literature is a course designed to explore everything in Supernatural literature that piques the interest in readers: ghosts, goblins, witches, creatures, murderers, insanity, etc.... This course focuses on mastery of the PA Core Standards for English Language Arts. Through careful examination of literature that goes back as far as *Beowulf* and Chaucer's *The Canterbury Tales*, students will explore how the elements of Supernatural first appeared to enrich literature and present a cultural relevance for future generation. Further study will examine how the genre has changed into a present application of a "modern Supernatural" that explores the elements of the human psyche that creates serial killers, insanity, and violence in our world.

### **133 SCIENCE FICTION – English Elective**

#### **0.5 CREDIT**

Science Fiction focuses on mastery of the PA Core Standards for English Language Arts. Science fiction can help students anticipate change in their own world more readily. The emphasis of this kind of science fiction writing explores the sequence of events that lead up to the ethical and social problems produced by technological and social developments. By studying a variety of texts, the students will strengthen their ability to analyze and comprehend what they read and improve their writing and speaking skills. They will also improve their vocabulary skills and increase their understanding of universal themes.

### **134 MYTHOLOGY – English Elective**

#### **0.5 CREDIT**

Mythology is a course designed for any student who wishes to further his/her knowledge in this area. It is a course that offers something for everyone. For the average reader, it provides entertaining tales and explanatory myths; for the more advanced reader, it provides a background for understanding many symbols, metaphors, and allusions found in the modern world. The course is open to students in grades 9, 10, 11, and 12.

### **136 CONTEMPORARY LITERATURE – English Elective**

#### **0.5 CREDIT**

Contemporary Literature offers the opportunity to read and respond to 21st century literature. The course will foster an awareness of the ways current issues are explored in contemporary literature as well as how contemporary writers interact with readers. The course also explores how contemporary literature both reflects and affects an increasingly multicultural and digital society. Readings from multiple genres and multiple forms of literary analysis enrich the course's main focus: an increased awareness, understanding, and appreciation of contemporary literature.

### **140 SHORT STORY – English Elective**

#### **0.5 CREDIT**

Why do short stories matter? This class will examine characteristics and techniques of the modern short story, and, in doing so, look at both the stated and implied meanings in a variety of different short stories. We will also develop an understanding of the various fiction elements implemented by short story writers, including character, point of view, setting, conflict, and imagery. This class involves writing about and creating short stories.

## **142 BRITISH NOVEL – English Elective**

### **0.5 CREDIT**

This course focuses on PA Common Core English Language Arts Standards. This course covers the works of several major British novelists. It is designed for the student who enjoys reading, and it is structured for a student who enjoys literature and wishes to increase his/her knowledge in this area. The books selected for the course are considered classics (classic being defined as having stood the test of time) and are of a caliber to be included on most colleges' recommended reading lists. Reading, study, and discussion will focus on four novels written during the nineteenth and twentieth centuries. The history of the novel and its development in Great Britain will be presented as background to the course. The novels will be studied in their historical and political contexts as well as from a literary perspective. The major artistic and literary philosophies, which have developed during the last two centuries, will also be considered in any discussion of the books. The necessary technical details concerning the form and structure of the novel will also be taught and discussed

# SOCIAL STUDIES

## **151 AMERICAN HISTORY II**

### **1.0 CREDIT**

This course is a comprehensive survey of U.S. History from the beginning of the Civil War until the election of FDR. Students shall gain the basic knowledge and understanding of events from the Civil War to the beginning of the Great Depression. The focus will be on both domestic and foreign affairs issues and the prominent figures involved. Events such as the Civil War, the Gilded Age, World War I, the Roaring Twenties, and the Great Depression will all be major focuses during this class.

## **152 MODERN WORLD HISTORY**

### **1.0 CREDIT**

This course explores modern civilization from its origins in the 1300s to our own times. This comprehensive survey will investigate events, trends, and developments that had an impact on the development of the modern world such as the Renaissance and Reformation, Absolutism, Enlightenment, the French Revolution, Imperialism, regional conflicts, and the world today. Students will focus on several themes such as cooperation and conflict, regionalism and nationalism, science and technology, and diversity and uniformity. This is a rigorous course that will integrate research, writing, and study skills with the expectation of analysis and reflection by students. The study of modern world history will enable the student to effectively analyze the problems of humankind and provide insight for the future.

## **153 MODERN AMERICAN HISTORY I**

### **0.5 CREDIT**

This course is a comprehensive survey of U.S. History from the election of FDR to the end of President Johnson's term in office. Students shall gain the basic knowledge and understanding of events from the Great Depression to the unstable era of the 1960's, a desirable objective rarely accomplished in most history classes. The focus will be on both domestic and foreign affairs issues and the prominent figures involved, as well as, the social changes that shaped a generation. Events such as World War II, the beginnings of the Cold War, Korean War, Rock and Roll and the beginnings of the Vietnam Conflict which receive little attention in most social studies curricula will be a primary focus.

## **154 MODERN AMERICAN HISTORY II**

### **0.5 CREDIT**

This course is a comprehensive survey of U.S. History from the end of President Johnson's term in office to the present day. Students shall gain the basic knowledge and understanding of events up to the present time, a desirable objective rarely accomplished in most history classes. The focus will be on both domestic and foreign affairs issues, and the prominent figures involved. Events such as the Cold War, Vietnam War, Persian Gulf War and the oil embargo of the 1970's, which receive little attention in most social studies curricula will be a primary focus.

## **160 SOCIOLOGY**

**Pre-requisite: Students must have passed all required Social Studies courses to date.**

### **0.5 CREDIT**

Sociology is the study of social interactions among humans. In this introductory look at sociology, students will examine human group behavior and the methods of sociological investigation. An emphasis will be placed on areas of human relations and group behavior that affect our everyday lives with special attention given to technology, racism and prejudice and an individual topic chosen by each student. This course includes an in-depth, teacher guided research project in which each student chooses a social issue that interests them or they would like to improve. Sociology is for those students interested in the behavioral sciences. Sociology may be taken in conjunction with Psychology and Anthropology but is certainly useful if taken alone in preparation for college or for personal interests.

## **161 INTRODUCTION TO PSYCHOLOGY**

**Pre-requisite: Students must have passed all required Social Studies courses to date.**

### **0.5 CREDIT**

This course is designed as a general introduction to the scientific study of behavior, particularly human behavior. The methods of psychological research and investigation will be examined as well as the prominent theories explaining behavior, which result from such study. Attention will be given to current research that confirms or contradicts some of the more traditional theories as well as providing the basis for new theories. Major areas of emphasis will include: human development in all phases, personality theories, intelligence and intelligence testing, principles of learning and thinking, adjustment, disorder and treatment of disorder. For those students interested in the behavioral sciences, psychology may be taken in conjunction with sociology and anthropology but is certainly useful if taken alone in preparation for college or for personal interests.

## **162 INTRO TO DEVELOPMENTAL DISABILITIES (Teacher Recommendation Required)**

### **1.0 CREDIT**

This course affords students the opportunity to gain foundation information about developmental disabilities and to work directly with students who exhibit developmental disabilities. The students attend weekly seminars for foundation information and serve as tutors with students in intermediate and secondary level Life Skills Support programs and in intermediate level Learning Support programs. The course provides career awareness experiences. Skills are gained in using positive approaches in teaching methods and in using behavior-shaping techniques. Places are limited and assignments will be made on a first-come, first-served basis.

## **170 STREET LAW**

**Pre-requisite: Students must have passed all required Social Studies courses to date.**

### **0.5 CREDIT**

This course is intended to expose students to the more practical ways in which our civil laws may affect their everyday lives. Through it, students will gain knowledge of common problems of civil laws they may encounter, develop skills for analyzing these problems and explore possible strategies for resolving and/or preventing such problems. While the rights of citizens will be stressed, there will also be a strong emphasis on the responsibilities of citizens toward one another, their families and their communities within our legal system. This course will not deal with criminal law or the juvenile justice system, which are covered, in American Legal Systems.

## **171 SOCIAL TOPICS**

### **0.5 CREDIT**

This course is designed to investigate social situations that are very relevant to a student's future. The content of the course includes the following outline: the relationship between science, technology, and society; the methodology of determining future scenarios; the investigation of various authors' view of the past and future endeavors; the study of poverty & homelessness; gerontology & the death and dying process; the family (structure, function, trends, divorce, preparation, etc.); varied subcultures; analysis of political, economic & societal changes and the student's role in an increasing global society. There is a substantial amount of reading & writing in the course.

## **172 PROBLEMS OF THE MODERN WORLD**

### **0.5 CREDIT**

This course will place an emphasis on major problems of the past and how they impact the world of today. Such topics as The Enlightenment, the Cold War, the Middle East, and the Nuclear Arms Race will receive much attention as well as other lesser topics. Also, approximately 50% of this course will be devoted to newsworthy items occurring each and every day on the local, national, and international levels.

## **173 MODERN EUROPEAN HISTORY**

### **0.5 CREDIT**

Many European history courses taught in our high schools today leave students guessing at what really did happen in the development of Modern Europe. Teachers simply run out of time and wind up filling their students with a mass of isolated and unrelated facts. Students in turn are left blind as to what were the causes and effects of the many events occurring after 1870 in Europe. Modern European history is an elective course that will supply students with the answers to these and their other questions that usually go unanswered. The course traces the rise of Germany into a national state and the subsequent change in Europe's age old balance of power. Emphasis is placed on the causes and effects that both World Wars have had on the development of Modern Europe. Special treatment is given to the modern Tyrant's and their philosophies as they pushed their respective countries into war. The course ends with both the conclusion of World War II and an analysis of what the war did to Europe.

## **174 BIO-ETHICS**

**Pre-requisite: Students must have passed all required Social Studies courses to date.**

### **0.5 CREDIT**

This course is especially useful for students planning careers in medicine, nursing and other health service occupations as well as the biological sciences but is also open to anyone interested in seriously examining the controversies presented by the various critical issues involved that could touch everyone's life at one time or another. Background information on the nature and scope of Bio-Ethics will be presented as well as some of the more prominent theories on approaching ethical dilemmas. Particular issues will be examined objectively from both sides and, while no definite correct conclusions may be reached by individuals or the class, students will be stimulated to offer sound effective reasoning and persuasive arguments to support their positions. (Note: Issues may vary from year to year since every attempt is made to keep the issues in this course current and up to date.)

## **175 ANTHROPOLOGY**

### **0.5 CREDIT**

Anthropology is the study of humans in all times and places. In this introductory look at anthropology, students will examine the four major fields- Cultural, Physical, Linguistics and Archaeology. Will focus on comparative patterns of culture, relationships to the environment and social institutions. Students will study our culture, other world-wide cultures and their personal cultural background through projects and fieldwork. For those students interested in the behavioral sciences Anthropology may be taken in conjunction with Sociology and Psychology but is certainly useful if taken alone in preparation for college or for personal interests.

## **180 ECONOMICS**

### **0.5 CREDIT**

This course is designed to provide a basic understanding of key economic concepts, the major factors involved in the operation of the American economic system, the major differences between our system and other approaches found elsewhere, and the relevance of Economics to many aspects of our personal life. While the course will focus largely on those matters of national and even international importance, considerable attention will be given to the ways in which we are individually affected by various economic factors and concepts.

## **181 AMERICAN LEGAL SYSTEMS**

### **0.5 CREDIT**

The primary goal of the course is to help the student gain a deeper, more realistic and practical appreciation for the American legal system. The student shall look closely at the interrelatedness of law enforcement, the courts and the penal system. The student will learn of the overall philosophy of the American Judicial System based on the constitution, bill of rights and Supreme Court decisions.

## **192 AP US GOVERNMENT (Teacher Recommendation Required)**

### **1.0 CREDITS**

The Advanced Placement course in United States Government and Politics is designed to give students a rigorous and collegiate level opportunity to analyze the US government and politics. This course will involve the analysis of fundamental ideas leading to the US Constitution, and examination of the structure of US Government, and the study of political groups, institutions, and ideas that make up the present-day American political landscape. An emphasis will be placed on policy-making and implementation of policy. The course will be taught using a college level textbook and college level supplemental materials. The A.P. US Government will prepare students to take the AP exam at the end of the school year.

## **194 AP EUROPEAN HISTORY (Teacher Recommendation Required)**

### **1.5 CREDITS**

The Advanced Placement course in European History is designed to give students a rigorous and collegiate level opportunity to analyze the history of Europe since 1450. This course will involve the analysis of history using the elements of the acronym PERSIA (Political, Economic, Religious, Social, Intellectual and Artistic) for each time period/major event as well as how each time period has influenced current events. The course will be taught using a college level textbook and college level supplemental materials. The A.P. European History class will prepare students to take the AP exam at the end of the school year.

## **195 AP US HISTORY (Teacher Recommendation Required)**

### **1.5 CREDITS**

AP American History is designed to challenge and motivate the best and brightest students in social studies. The design of the course is such that it will meet the academic/college prep social studies requirement for the senior year and provide students with the skills necessary for successful completion of the national AP exam given in May each year.

# MATHEMATICS

## 206 APPLICATIONS OF GEOMETRY & TRIGONOMETRY

**Pre-requisite(s): ALGEBRA II, GEOMETRY**

**1.0 credit**

The Applications of Geometry and Trigonometry course is designed to provide students with deeper investigations of the practical applications of Geometry and Trigonometry. The course includes a general study of the fundamentals of trigonometry including angle measure, discussion of the unit circle, graphing of the six trigonometric functions, and solving triangles. This course is a great math elective choice for students who have completed their Algebra and Geometry requirements.

\*Note: Students may not receive credit for both Applications of Geometry & Trigonometry and Precalculus/Honors Precalculus.

## 208 HONORS GEOMETRY (Teacher Recommendation Required)

**Pre-requisite: 8th GRADE ALGEBRA II**

**1.0 CREDIT**

Geometry Honors is a course offered to students who have completed 8<sup>th</sup> grade Algebra II with an 85% average or better, or teacher recommendation. The course is taught at an accelerated pace and covers material in more depth. This course is designed to help the student gain a better understanding of the nature of a mathematical system and to appreciate the detailed structure of geometry. Geometry Honors has a strong emphasis on application, projects, and theory.

## 210 ALGEBRA I

**1.0 CREDIT**

Algebra I will give the student a deeper understanding in these topics: operations with real numbers, solving equations and inequalities, linear functions, coordinate geometry, and data/probability/statistics.

## 211 ALGEBRA II

**Pre-requisite: ALGEBRA I**

**1.0 CREDIT**

Algebra II is a second year study of the concepts and structure of Algebra. The course provides students with a more in depth investigation of several Algebra I topics including the expansion of the real number system, rational expressions, polynomials, factoring, and linear equations. An Algebra II student will also participate in a comprehensive study of several new Algebra topics including linear functions, relations, irrational and complex numbers, quadratic equations and functions, and variation. Students are expected to communicate mathematical concepts and processes using written communication.

\*Students will need a scientific calculator for this course. Recommended model: TI34II

## **212 ALGEBRA III**

**Pre-requisite: ALGEBRA II**

**0.5 credit**

Algebra III is an additional half-year study of the concepts of Algebra. The course provides students with the knowledge of conic sections, exponentials, logarithms, sequences, series, and operations with rational expressions. This course is a requirement for any student who wishes to take Precalculus and/or Calculus. It is also an excellent course to help students to prepare for a higher-level algebra course and/or the SAT exam.

\*Students will need a scientific calculator for this course.

Note: Students may not receive credit for both Algebra II Honors and Algebra III.

## **213 GEOMETRY**

**Pre-requisite: ALGEBRA I**

**1.0 CREDIT**

Geometry will allow students to apply their background of algebra to better understand and appreciate the basic structure of Geometry and how it is related to other academic disciplines. Students will improve their thinking skills to solve practical and challenging problems from everyday life. Geometry will include the following topics: points, lines, planes, and angles; deductive reasoning, parallel lines and planes; congruent triangles; quadrilaterals; inequalities of geometry; similar polygons; right triangles; circles; areas of plane figures; areas and volumes of solids; and coordinate geometry.

\*Students will need a scientific calculator for this course. Recommended model: TI34II

## **214 PRE-CALCULUS**

**Pre-requisite(s): ALGEBRA II, GEOMETRY**

**1.0 CREDIT**

The course provides students with knowledge of linear, quadratic, polynomial, rational, exponential, logarithmic and trigonometric functions. Students learn to graph these functions and likewise to investigate various applications of these functions. Practical applications and solution of triangular problems are also studied as well as verifying and proving trigonometric identities.

\*Students will need a TI-89 graphing calculator for this course.

\*Note: Students may not receive credit for both Applications of Geometry and Trigonometry and Pre-Calculus/Honors Pre-Calculus

## **215 HONORS PRE-CALCULUS (Teacher Recommendation Required)**

**Pre-requisite(s): 8th GRADE ALGEBRA II, HONORS GEOMETRY**

**1.0 CREDIT**

This course provides students with a comprehensive study of the definitions, concepts, applications, and graphs of trigonometric, polynomial, rational, exponential, and logarithmic functions. The course is taught at an accelerated pace so that additional mathematical topics can be studied. These additional concepts include: conic sections, sequences and series, and factorials.

\*Students will need a TI-89 graphing calculator for this course.

## **216 CALCULUS**

**Pre-requisite(s): PRECALCULUS, ALGEBRA III**

**1.0 CREDIT**

This course is designed for the student whose career interest may include, but are not limited to, the fields of mathematics, engineering, or the sciences. Calculus is the culmination of our high school mathematics curriculum. The major topics covered will be limits, the derivative and its applications, and the integral and its applications. \*Students will need a TI-89 graphing calculator for this course.

## **217 PCET-MATH**

**0.5 CREDIT**

As the title of this course implies, it is designed for those college-bound students who plan to take the college boards. This course is aimed at preparing the student for the examination. The objective of PCET is twofold in that it is a review of high school mathematics and it gives the student practice in taking tests of this nature.

\*Students will need a scientific calculator or a TI-89 graphing calculator for this course.

## **218 AP CALCULUS AB**

**Pre-requisite(s): PRECALCULUS, ALGEBRA III**

**1.5 CREDITS**

AP Calculus is a course offered to students who have a 93 average or better or teacher recommendation. This course is designed for the highly motivated student with outstanding mathematical aptitude. Students will be expected to work at the college level in analytic geometry and calculus in preparation for the Advanced Placement Examination in May. If the student does not take the AP exam, the AP designation will be removed from the student's transcript.

\*Students will need a TI-89 graphing calculator for this course.

## **224 AP STATISTICS**

**Pre-requisite(s): ALGEBRA II**

**1.5 CREDITS**

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four conceptual themes:

- 1) Exploring Data: Describing patterns and departures from patterns.
- 2) Sampling and Experimentation: Planning and conducting a study.
- 3) Anticipating Patterns: Exploring random phenomena using probability and simulation.
- 4) Statistical Inference: Estimating population parameters and testing hypotheses.

\*Students will need a TI-84 graphing calculator for this course.

# BUSINESS/TECHNOLOGY EDUCATION

## **229 FUTURES I—9TH GRADE**

### **0.5 CREDIT**

Students will learn the skills needed to succeed in the workplace. It is designed to expose students to principles, concepts and procedures relating to personal interests, skills, and abilities, workplace communication, career exploration, computer applications, soft skills, and the choice of a career pathway. Futures I also includes a component of the Graduation Project.

## **236 GRAPHICS AND ANIMATION**

**Pre-requisite: DIGITAL GRAPHICS**

### **0.5 CREDIT**

Students will learn the skills needed to successfully manipulate and create graphics in several different formats. The course is designed to expose students to principles, concepts and procedures relating to file formats, design, color, layout, etc. Students will learn basic animation for web.

## **237 DIGITAL GRAPHICS**

### **0.5 CREDIT**

Digital Graphics investigates the world of digital image editing and manipulation. Students will examine the features of digital images and methods of editing photorealistic images. Students will create an electronic portfolio of projects using digital images and photo editing software.

## **241 REAL WORLD PROGRAMMING**

### **0.5 CREDIT**

Real World Programming is a systematic study of multiple computer programming languages, programming language syntax, use of computer programs to solve problems, and the creation of original computer programs. This course is designed to adapt to the evolving world of technology and therefore, will include a variety of programming languages and programs.

## **242 INTRODUCTION TO VIDEO GAME DESIGN**

### **0.5 CREDIT**

Introduction to Video Game Design is a systematic study of video game design including both technological and creative aspects of video game development, program design, digital artwork creation, and video game project development management. Students will explore game design tools, identify and fix game design problems, create original video game programs, and demonstrate the video game design process from conception to completion.

## **244 TECHNOLOGY, LEADERSHIP, AND INNOVATION (Competitive Course – Students will complete an application process and be chosen for this course by CCHS faculty)**

### **0.5 CREDIT**

Technology Leadership and Innovation is a course designed for students who want to become adept at using software and hardware in a working environment. Throughout the course, students will assist teachers and students in selecting and using technology to its greatest potential. Students will choose areas of focus such as blogging and creating podcast, software training, developing apps, evaluating apps, hardware repair and maintenance, and/or an independent project.

## **301 FUTURES II - 10TH GRADE**

### **0.5 CREDIT**

Futures II is designed to introduce students to the skills needed to make effective financial and consumer related decisions. Students will learn how to manage a paycheck; how to effectively use the banking system; how to make decisions about insurance; and how to manage home and automobile expenses. Materials will be supplemented to include various business topics including personal budgeting, taxes, business communications and current ethical business practices.

## **302 ACCOUNTING I**

### **1.0 CREDIT**

Money talks, and accounting is the language of business. Unlock its mystery and you become not only business-savvy, but also the go-to person for understanding both corporate and personal finance. The course is designed to give students a general knowledge of accounting in preparation for college or for further education in the field of business. Students may use accounting for any pathway to complete their 1.0 credit as an elective course.

## **303 ADVANCED ACCOUNTING**

### **Pre-requisite: ACCOUNTING I**

### **0.5 CREDIT**

Accounting II will be an in-depth study of financial management, financial records, personal business affairs and economic activities in the business world. Any student planning to major in business and/or accounting is strongly recommended to enroll in this class. Students seeking employment immediately after high school will be more qualified for entry-level accounting jobs.

## **304 AUTOMATED ACCOUNTING**

### **Pre-requisite: ACCOUNTING I or Department Approval**

### **0.5 CREDIT**

Automated Accounting will be an in-depth study of financial management, financial records, personal business affairs and economic activities in the business world using electronic accounting software. Students seeking employment immediately after high school will be more qualified for entry-level accounting jobs and students pursuing accounting or business administration for a college major will be better prepared to succeed in a college setting.

### **313 INTRODUCTION TO BUSINESS**

#### **0.5 CREDIT**

Today's global economy and the "mean and lean" attitude of corporate America has created an ever increasing number of entrepreneurs in the United States' work force. Business owners see a need, and produce a product or create a service to meet it. In the process they create new businesses, new jobs, and sometimes whole new industries. Students will learn the historic and economic background of entrepreneurship and business commerce, the different types of business formations, business management skills, business marketing strategies, business financing, business operations and business ethics. The stock market and the stock market game will be introduced and incorporated into the course.

### **314 SMALL BUSINESS MANAGEMENT**

#### **0.5 CREDIT**

Small Business Management enables the students to gain first-hand entrepreneurial experience by starting their own businesses right in the classroom. They create and then investigate their business idea, determine their market and form of business, and create a business plan. They will choose a location and design the business. Students will determine operations, staffing, and product and market mix. Finally, they will create a web page for their business.

### **330 SPORTS AND ENTERTAINMENT MARKETING**

#### **0.5 CREDIT**

Sports and Entertainment Marketing will teach marketing concepts via the sports and entertainment industry. Sports and Entertainment Marketing will help students develop a thorough understanding of the marketing concepts and theories that apply to both sports and entertainment events. Students will learn about the marketing mix, channels of distribution, event sponsorship, distribution, pricing, economics, market segmentation, event management, and marketing plans. Students will apply their knowledge of marketing strategies in various projects and complete a comprehensive marketing plan.

### **343 FUTURES III - 11TH GRADE**

#### **0.5 CREDIT**

Futures III expands on the content of both Futures I and Futures II. This career-college prep course will explore the qualities of a model employee, steps necessary to prepare for the future, financial planning, and resume and interview techniques. Career and college research will continue. Job shadowing a career in the student's chosen pathway is required.

## **801 WORK EXPERIENCE**

### **2.0 CREDITS – TWO SEMESTERS**

#### **1.0 CREDITS – ONE SEMESTER**

Work experience is the method of instruction used to provide specialized, on the job training. Each student is given a release time from school to work in an approved training station in the community. All enrolled students should be legally employed the equivalent of 15 hours a week during the school year to receive academic credit for his experience (one-half credit for each nine weeks of participation, two full credits for the entire school year). The employer will agree to give appropriate, related instruction for the job situation as well as the wage required by law. The supervisor of work experience will monitor the work experience workstation and function as the liaison between the work site and school.

## **805 INTERNSHIP**

### **2.0 CREDITS – TWO SEMESTERS**

#### **1.0 CREDIT - ONE SEMESTER**

Internship is a structured program that is intended to offer students job shadowing experience in his/her chosen field. This experience may or may not be paid. Admittance into the Internship Program is through an application with the supervisor of internships. The internship must be in the student's pathway. Attendance, tardiness, discipline record, grades, and courses taken will be used to determine which students are selected. The employer may require drug screening and clearances. Students must provide their own transportation to and from the work site.

# SCIENCE

## **250 HONORS BIOLOGY (Minimum Grade and Teacher Recommendation Required)**

### **1.0 CREDIT**

Honors Biology gives selected freshman science students an opportunity to complete their requirement for life science with a laboratory based approach that incorporates those process skills essentials for a sophomore science student. In addition to a survey of general Biology principles, students take a hands-on approach to solving problems and critical thinking skills development. Students complete several laboratory activities and processes in science in addition to those already incorporated into Biology 252.

## **251 PHYSICAL SCIENCE**

### **1.0 CREDIT**

Physical Science serves as an introduction to the basic principles found in the sciences. As such, the course also serves as an introduction to other science fields a student may wish to pursue: Chemistry, Physics, Biology, Astronomy, Oceanography, Meteorology, and Electronics. The course is elementary in subject matter, and basic principles are presented in a descriptive and mathematical manner. The scope of the course is broad, covering at one extreme classical Physical Science such as matter and motion, and at the other extreme basic modern electronic and magnetism. Where ever possible, applications of basic principles are correlated to activities or events the student would encounter in everyday life. A broad objective of the course is to develop an appreciation of what science has accomplished and to stimulate the student to further their study of science.

## **252 BIOLOGY**

### **1.0 CREDIT**

Biology is a course that follows a systematic approach in its organization. This approach allows for an explanation of the diversity of life while revealing the relationship and unity of structure and function. The student's role in the earth's future problems as well as the solutions to these problems will be emphasized. Students will learn about the fundamental methods common to scientific inquiry and see evidence of those methods as classic experiments leading to the development of major principles. Emphasis will be on a hands on approach to inquiry. Content will include possible careers in the field of science. Students will examine the ethical considerations associated with scientific advancements.

## **256 GENETICS**

**Pre-requisite: BIOLOGY I**

**0.5 CREDIT**

This Genetics course will place an emphasis on the underlying biology of the human condition. By relating genetic principles to the human condition, this course will prepare students to consider some controversial issues involving the science of genetics in contemporary society. Coverage of genetic principles includes a balanced treatment of cells and chromosomes, classic Mendelian genetics, molecular genetics, analysis of complex traits, environmental effects on gene expression, genetic disorders, and population genetics. In each of the seven topic sections, an effort to include applications to the individual and society will be made. The field of Genetics is forever expanding and up-to-date research and materials will be provided each year to keep pace with the advancements in technology and how it will affect society. Controversies such as embryo transfer, recombinant DNA, environmental mutagens, IQ testing, eugenics, genetic engineering, cloning, etc. will be discussed among students to challenge their minds to solve societal problems that will arise with advancements in Genetics. Fruit-fly analysis, DNA extraction, bacterial transformation, DNA fingerprinting with Gel electrophoresis are several of the technological labs that will expand their understanding of Genetics.

## **257 PHYSIOLOGY I**

**Pre-requisite: BIOLOGY I**

**0.5 CREDIT**

A study in Physiology involves the integration of the biological and the physical sciences to a very high degree. A basic understanding of the principles of chemistry, physics, and mathematics lays the foundation for the basic understanding of the body's function. The course is designed for those students interested in a medical related vocation or a career in one of the biological fields. This course is designed to give the student a basic understanding of the anatomy and physiology of the human body. Students are expected to take notes on class lectures and discussions, read assigned materials, and to take an active part in all laboratory activities. A comprehensive final shall be given at the end of this semester. The student will also be required to type a ten page research paper on a physiological related topic.

## **258 PHYSIOLOGY II**

**Pre-requisite: PHYSIOLOGY I**

**0.5 CREDIT**

This course is a continuation of Physiology I covering many of the systems not covered in that course. The same expectations and requirements are carried over from Physiology I except there will be no research paper.

## **259 AP BIOLOGY (Teacher Recommendation Required)**

**1.5 CREDITS**

Advance Placement Biology is a college preparatory course for juniors and seniors that will prepare students for the AP exam. This course emphasizes the structure function relationship inherent in living systems. Emphasis is on completion of the AP laboratory activities and synthesis of concepts central to a successful college biology course. All of the Advanced Placement Biology themes are covered within the year-long course as students are encouraged to develop critical thinking skills and laboratory skills essential in life science courses encountered in the first year of college.

## **260 CHEMISTRY I**

**Pre-requisite: BIOLOGY I**

**1.5 CREDITS**

Chemistry I is a physical science based on knowledge gained from observation, study, and experimentation. The course concerns itself with the structure of matter and its composition, the physical and chemical changes of matter, and the products that result from these changes. In Chemistry I students put theory into practice. Students develop skills in proper laboratory techniques and in problem-solving. Students learn the organization of the periodic table and how to use it effectively. Students also become aware of the everyday need for chemistry and the chemistry behind everyday events.

## **261 CHEMISTRY II**

**Pre-requisite: CHEMISTRY I - minimum grade and teacher recommendation required 1.0 CREDIT**

Many topics are presented to Chemistry II students. Pertinent theories from Chemistry I are reviewed and expanded upon including measurement, atomic structure, molarity, normality, nomenclature, chemical equations, pH, and acids and bases. Theories are reinforced through application of mathematical solutions to theoretical word problems. Chemical reactions are studied in the following terms: thermodynamics – energy involved in reactions and reaction spontaneity; kinetics – factors affecting reaction rates; dynamic equilibrium – factors affecting extent of a reaction; and reduction oxidation – electron exchange and electrical potential in reactions.

## **270 PHYSICS**

**1.0 CREDIT**

Physics focuses on mastery of the PA Academic Standards for Science and Technology and is the equivalent of a first-semester college course in algebra-based physics. As students progress through physics, they will participate in a systematic study of Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. Physics is the branch of science that studies the physical world. In particular, physics explores the interactions of matter and energy. Physics is a math-intensive subject in which physical phenomena are explained by mathematical relationships. Wherever possible, demonstrations and lab exercises reinforce understanding and show the application of physics principles in everyday life. A broad objective for this course is to heighten awareness of the scientific happenings of the world and to promote critical thinking and problem solving skills.

## **271 AP PHYSICS**

**Pre-requisite: PHYSICS**

### **1.0 CREDIT**

AP Physics focuses on mastery of the PA Academic Standards for Science and Technology and is the equivalent of a second-semester college course in algebra-based physics. As students progress through physics, they will participate in a systematic study of fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics.

Physics is the branch of science that studies the physical world. In particular, physics explores the interactions of matter and energy. Physics is a math-intensive subject in which physical phenomena are explained by mathematical relationships. Wherever possible, demonstrations and lab exercises reinforce understanding and show the application of physics principles in everyday life. A broad objective for this course is to heighten awareness of the scientific happenings of the world and to promote critical thinking and problem solving skills.

## **272 ASTRONOMY**

### **0.5 CREDIT**

Astronomy is the science that describes celestial objects according to their location, motion, size, composition, and appearance, but this course encompasses much more. A broad goal of this course is to enable the student to gain an appreciation for the historic and scientific significance of astronomy emphasizing how astronomers learn about the cosmos— in other words “how we know what we know”.. Topics range from the history of astronomy, methods of astronomy, studies of planetary bodies, the sun, stars, and other celestial objects and their relation in the universe.

## **280 OCEANOGRAPHY**

### **0.5 CREDIT**

Oceanography introduces students to the physical features and the geological and biological phenomena of the oceans and seas. Non-technical emphasis is placed on the origins of the oceans, physical and structural features of the oceans and dynamic processes such as waves, currents, undersea volcanoes and earthquakes, and coral reef building. Basic concepts of physical and geological oceanography are covered, including processes that shape ocean basins and coastlines, origin of the oceans, ocean zones, ocean sediments and deposits, and prominent features of the oceans of the world. Areas of ocean dynamics included in the course are wave motion, currents, tides, temperature moderation, storms, ice formation, and El Nino Southern Oscillation. A short unit on marine biology examines estuaries and wetlands, food chains, and several kinds of living organisms - benthic, neritic, and plankton.

## **281 METEOROLOGY**

### **0.5 CREDIT**

This course provides an introduction to meteorology, the study of the atmosphere, atmospheric phenomena, and the basic principles of weather prediction. Topics include the origin of the atmosphere, composition of the atmosphere, and how atmospheric changes affect weather and climate. Weather and climate are presented from both local and global perspectives. Violent weather disturbances are analyzed. Practical work and theory instruction are provided in reading and constructing weather maps and predicting weather.

## **282 ENVIRONMENTAL SCIENCE**

**Pre-requisite: Biology I or Honors Biology**

### **1.0 CREDIT**

Environmental Science is a year-long course for students considering a career in the environmental sciences or simply interested in the environmental science field. Students have a wide range of interest and understanding of this field and may plan to pursue an employment opportunity in the natural resources field upon graduation from high school. This course will stress an understanding of the delicate balance of nature and man's influence on that balance. Fresh water and terrestrial ecological principles will be stressed. Current issues dealing with pollution, toxic waste, acid rain, energy consumption and world food supplies will be examined. Basic fundamentals of conservation and wildlife management will be presented. Students will study in detail both aquatic and terrestrial ecosystems in addition to the causes and solutions to various environmental issues. Students will gain an understanding of all of Pennsylvania's natural resources with emphasis on forest management, wildlife management, aquatic ecosystems, soil science/management and a study of a chosen current environmental issue in our Commonwealth.

## **660 ANIMAL SCIENCE**

**Pre-requisite: BIOLOGY or HONORS BIOLOGY**

### **0.5 CREDIT**

Within our student body there has always been a need and interest in the animal science field. In today's society, technology and job skills are a priority in obtaining and retaining employment. This course is designed to introduce and develop knowledge and skills necessary to work within the animal/veterinary science field. Live animals, specimens, models, tissue dissections, and industry professionals will be utilized in the instruction of animal handling, care techniques, and many other aspects related to veterinary science.

## **680 FOREST AND WILDLIFE SCIENCE**

### **0.5 CREDIT**

Forest Science will provide the student with a basic understanding of the forest industry. As entering this elective course, students have a wide range of interest and understanding of this field and may plan to pursue an employment opportunity upon graduation from high school. Through this course, instruction is provided on all areas of the forest management industry. Material being presented in this course is designed to provide a diversity of information to students who in turn can apply these principles to their own situations. Information being presented such as: Tree Growth & Identification, Forest Regeneration, Forest Improvement, Conditioning, and Management Practices. Wildlife Science will provide the student with a basic understanding of wildlife management. As entering this elective course, students have a wide range of interest and understanding of this field and may plan to pursue an employment opportunity upon graduation from high school. Throughout this course, instruction is provided on all areas of the wildlife management industry. Material being presented in this course is designed to provide a diversity of information to students who in turn can apply these principles to their own situations. Information being presented such as: Elementary Principles of Wildlife Management, Upgrading Habitats, Home Sites & Special Areas, Habitat Improvement, Bird & Mammal Identification, Legislative Process, People & Wildlife, Private Land Use, Fish & Reptile Identification, and Population Dynamics.

# FINE ARTS

## **353 INTRO TO 3-D DESIGN**

### **0.5 CREDIT**

Intro to 3-D Design focuses on mastery of the PA Academic Standards for Arts and Humanities through developing hand-building clay techniques as well as offering the chance to work with a variety of other materials such as cardboard, plaster, and found objects. Studio projects created in class will be linked to art produced by artists today and multiple cultures throughout history. During this course you will gain a greater appreciation for three-dimensional art forms. You will be able to discuss artistic topics in depth and use newly learned methods in order to build your artistic skills. This class will provide the opportunity to creatively express yourself through your own three-dimensional artwork.

## **354 ADVANCED 3-D DESIGN**

**Pre-requisite: Successful completion of Intro to 3-D**

### **0.5 CREDIT**

Advanced 3-D Design focuses on mastery of the PA Academic Standards for Arts and Humanities furthering student's development of hand-building clay techniques as well as offering the chance to work with a variety of other materials such as glass, metals, and mixed media. Students will also have the opportunity to work on a potter's wheel where they will produce functional and usable ceramic works. Studio projects created in class will be linked to art produced by artists today and multiple cultures throughout history. During this course you will gain a greater appreciation for three-dimensional art forms. You will be able to discuss artistic topics in depth and use newly learned methods in order to build your artistic skills. This class will provide the opportunity to creatively express yourself through your own three-dimensional artwork.

## **355 INTRO TO 2-D ART**

### **0.5 CREDIT**

Intro to 2-D Art focuses on mastery of the PA Academic Standards for Arts and Humanities through developing drawing and painting skills, along with other forms of 2-Dimensional art forms. You will create a variety of projects, which will focus on drawing from real life, observation skills, color theory, and expressing yourself through your artwork. Studio projects created in class will be linked to art produced by artists today and multiple cultures throughout history. During this course you will gain a greater knowledge of materials such as pencil, colored pencils, charcoal, watercolor and acrylic paint. You will be able to discuss artistic topics in depth and use newly learned methods in order to build your own artistic skills.

### **356 ADVANCED 2-D ART**

**Pre-requisite: Successful completion of ART APPRECIATION and Intro to 2-D**

#### **0.5 CREDIT**

Advanced 2-D Art focuses on further mastery of the PA Academic Standards for Arts and Humanities through developing drawing and painting skills. You will create a variety of projects, which will focus on refining your observation, drawing, and painting skills, expressing yourself through your artwork, and using your imagination. Studio projects created in class will be linked to art produced by artists today and multiple cultures throughout history. During this course you will gain a greater knowledge of materials such as, but not limited to pencil, charcoal, acrylic paint, and oil paint. You will be able to discuss artistic topics in depth and use newly learned methods in order to build your artistic skills.

### **359 ART WORKSHOP (Art Teacher Recommendation Required)**

**Pre-requisite: Successful completion of ART APPRECIATION, Intro 2-D, Advanced 2-D, Intro 3-D, Advanced 3-D**

#### **0.5 CREDIT**

Art workshop is a student directed class for seniors. The student must also have the recommendation of the art teacher and a proposal that includes the media and techniques that they would like to explore, along with a list of project ideas. The student must complete five major projects and prepare a public display of their work. For each project the student must write a proposal that is approved by the teacher. Part way through the project they must write an in process analysis. At the conclusion of each project and the semester they must write a personal critique.

### **362 INTRODUCTION TO DIGITAL PHOTOGRAPHY**

**Pre-requisite: Successful completion of Art Appreciation**

#### **0.5 CREDIT**

Introduction to Digital Photography focuses on mastery of the PA Academic Standards for Arts and Humanities. Students will learn how to properly use a digital camera while learning how to take artistic and professional looking photos. In addition to taking digital photographs students will learn how to digitally enhance, manipulate, edit, and publish the photographs using multiple computer programs, which may include Adobe Photoshop, InDesign, and iPhoto. Students will be tasked with creating original works of art through the development and management of various assignments taking their ideas from conception to completion. All of the skills and techniques acquired throughout the course will culminate with the completion of a final project.

### **401 HS BAND (Requires the ability to play an instrument)**

#### **1.0 CREDIT**

This course is a year-long commitment that includes Marching, Concert, and (for some), Stage Bands. The Marching Band performs at all football games as well as several parades in the fall. Rehearsals for Marching Band begin during the first week of August and are coordinated with the athletic schedule. The Concert Band rehearses a variety of music in preparation for the Holiday, spring, and Arts Festival Concerts. As a part of the course requirement, individual weekly lessons are scheduled during school hours. Responsibility, organization, self-discipline, respect and commitment are major components of the overall philosophy of the group. Students wishing to participate in both the Athletic and Music Departments concurrently, are encouraged to do so. Opportunities for County, District, Region, and State organizations are available to eligible students. New students interested in the Band program MUST consult with the director before enrolling.

## **402 HS CHORUS (Requires teacher consultation for placement)**

### **1.0 CREDIT**

#### **Course focuses on the mastery of the PA Academic Standards for Arts and Humanities**

The chorus sings four-part music, which is performed in the annual winter concert, the spring concert, and/or the Arts Festival. Breathing, vocal range extension, sight singing and vocal health exercises are a part of the program. Responsibility, organization, self-discipline, respect, and commitment are major components of the overall philosophy of the group. This course is a year-long commitment.

## **403 HS BAND/CHORUS (Requires the ability to play an instrument)**

### **1.0 CREDIT**

#### **Course focuses on the mastery of the PA Academic Standards for Arts and Humanities**

This course is designed for students interested in both instrumental and vocal music. Both Band and Chorus meet at the same time during the school day. Students receive one academic credit while alternating days between the two ensembles as determined by the directors. Students must fulfill requirements of both courses.

## **406 MUSIC THEORY I**

### **0.5 CREDIT**

#### **Course focuses on the mastery of the PA Academic Standards for Arts and Humanities**

The purpose of music theory is to make us fully aware of the factors that govern musical interpretation and to deepen our awareness, understanding, and appreciation of the elements that make up a piece of music. We not only will study, but learn how to interpret/analyze on the intuitive level what a composer actually meant by their writings. We'll develop the terminology and skills needed to analyze and compose music. Pre-requisite for this course is participation in Band, Chorus, or Band/Chorus. This class is offered to sophomores, juniors, and seniors.

## **407 MUSIC THEORY II**

### **Pre-requisite: Successful completion of MUSIC THEORY I**

### **0.5 CREDIT**

#### **Course focuses on the mastery of the PA Academic Standards for Arts and Humanities**

This course is a continuation of Theory I. A more in depth study of music theory leads us to the culmination of this course: a major composition for either the band or chorus to perform and a chance for you to conduct either ensemble. Pre-requisite for this course is participation in Band, Chorus, or Band/Chorus AND Music Theory I. This class is offered to sophomores, juniors, and seniors.

## **408 WHAT'S IN YOUR IPOD?**

### **0.5 CREDIT**

This exploratory course is intended to enhance students' understanding of music and its importance as a part of everyday life. This course focuses on mastery of the PA Academic Standards for Arts and Humanities as well as the National Standards for Music Education. The course is an extension of Music Appreciation class. Students will get an overview of many different styles of music from around the world, an understanding of their evolution, as well as spending time listening to standard repertoire of each style explored. Basic musical terms will be covered. Students will spend time critiquing and analyzing different performers and performances. A general interest in music is needed.

## **409 MUSICAL THEATER**

### **0.5 CREDIT**

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. The culmination of this class will be going to see a professional production.

## **411 VOICE CLASS I**

**Pre-requisite: Student must be enrolled in CHORUS**

### **0.5 CREDIT**

**Course focuses on the mastery of the PA Academic Standards for Arts and Humanities**

Class Voice I provides the opportunity to learn the human voice, how it works, and fundamental voice literature. Students will sing English, Italian, German, and French repertoire. Students will learn how vocal music has evolved over the years, from Medieval Monks to Jazz/Broadway. Students will spend time sight-reading and learning solfeggio. This class is offered to freshmen, sophomores, juniors, and seniors.

## **412 VOICE CLASS II**

**Pre-requisite: Successful completion of VOICE I**

### **0.5 CREDIT**

**Course focuses on the mastery of the PA Academic Standards for Arts and Humanities**

Class Voice II provides students with a more in-depth study of the human voice, proper singing and foreign diction. This course is a continuation of Class Voice I. The culmination of this course will be a student-produced recital.

## **413 MUSIC HISTORY**

### **0.5 CREDIT**

**Course focuses on the mastery of the PA Academic Standards for Arts and Humanities**

This course is an overview of the main periods in Music History. We will also be spending time listening to standard repertoire. Basic musical terms as well as music history will be covered. A general understanding of music is needed. This course is considered Writing Intensive and Reading Intensive. The text used for this course is a college level textbook. This class is offered to juniors and seniors only.

## **415 MUSIC APPRECIATION**

**REQUIRED FOR GRADUATION—DESIGNED FOR FRESHMAN YEAR SCHEDULE 0.25 CREDIT**

Music Appreciation is a marking period long required course worth .25 credits and focuses on the mastery of the PA Academic Standards for Arts and Humanities. Students will explore Music in Our Culture as well as Music in Other Cultures. Students will spend time not only learning about music, but performing music. Students will gain an understanding and appreciation of music.

## **420 ART APPRECIATION**

### **REQUIRED FOR GRADUATION—DESIGNED FOR FRESHMAN YEAR SCHEDULE 0.25 CREDIT**

Art Appreciation is a marking period long required course worth .25 credits that focuses on the mastery of the PA Academic Standards for Arts and Humanities. Students will explore art of today and important periods of art throughout history while focusing on major developments and changes as they occurred. Students will increase their knowledge and understanding of art, while they gain a better appreciation of art and its importance.

## **421 GUITAR**

### **0.50 CREDIT**

**Class is intended for students who have little to no experience or formal training on the guitar**

This course focuses on mastery of the PA Academic Standards for Arts and Humanities as well as the National Standards for Music Education. This class is a hands on performance class. Students will learn the basics of guitar construction and maintenance, basic reading of notes, tablatures and chords, as well as strumming patterns. Students will perform both solo and ensemble work in varying styles from 12 bar blues to popular songs of today. This course is a semester long culmination with a guitar factory tour.

## **422 JAZZ HISTORY**

### **0.50 CREDIT**

This course focuses on mastery of the PA Academic Standards for Arts and Humanities as well as the National Standards for Music Education. The course is an overview of the main periods of Jazz History. Students will get a basic of the beginnings of Jazz, an understanding of the evolution of Jazz as well as spending time listening to standard repertoire of Jazz. Basic jazz terms will be covered. Students will spend time critiquing and analyzing famous Jazz performers and performances. A general understanding of music is needed.

## **423 Guitar II**

### **0.5 CREDIT**

**Pre-requisite: Guitar I or formal training (approved by instructor)**

This course focuses on mastery of the PA Academic Standards for Arts and Humanities as well as the National Standards for Music Education. This class is a hands-on performance class. Students will delve deeper into guitar performance, theory, and song writing. Students will perform both solo and ensemble work in varying styles from improvisational soloing to classical repertoire to popular songs of today. Students will also focus on studio and live music technology. This course is a semester long culminating with a class recital. Students interested in Guitar II MUST consult with the teacher before enrolling. Pre-requisite includes formal training or Guitar I

# WORLD LANGUAGES

## **456 GERMAN I**

### **1.0 CREDIT**

This course focuses on mastery of the National Academic Standards for World Languages. German I introduces the student to the German language, the Germanic culture, and the geography of the German speaking countries. This course focuses on beginning development of the four basic language skills: listening, speaking, reading comprehension, and writing. Communicative functions, grammar, and vocabulary are presented in culturally authentic situations and followed by a variety of activities that promote learning and application of the language.

## **457 GERMAN II**

**Pre-requisite: GERMAN I**

### **1.0 CREDIT**

This course focuses on the National Academic Standards for World Languages. German II builds upon the skills and knowledge base acquired in German I. It seeks to sharpen and expand students listening, speaking, reading, writing skills by concentrating on application needed to facilitate the continuation of the study of German. Content includes: grammar, in-depth culture, geography, and history. Student written and produced skits and a variety of reading materials designed to expand vocabulary, expand speaking ability, and reading comprehension.

## **458 GERMAN III**

**Pre-requisite: GERMAN II**

### **1.0 CREDIT**

This course focuses on mastery of the National Academic Standards for World Language. As students progress through this course they will be integrating all 4 language skills (listening, reading, speaking, and writing). Students will experience the language and culture through the use of diverse literary selections and current authentic web based resources. German III will continue to build on skills and knowledge acquired in the first 2 levels. Each student will have the opportunity to reach a level of proficiency commensurate with his or her individual abilities through differentiation of daily tasks and communicative activities.

## **459 GERMAN IV**

**Pre-requisite: GERMAN III**

### **1.0 CREDIT**

This course focuses on mastery of the National Academic Standards for World Language. As students progress through this course they will integrate all 4 language skills (listening, reading, speaking, and writing). Students will experience the language and culture through the use of diverse literature and current authentic web based resources. This class continues to build on grammatical points learned in levels 1-3. Each student will have the opportunity to reach a level of proficiency commensurate with his or her individual abilities through differentiation of daily tasks and communicative activities.

## **461 SPANISH I**

### **1.0 CREDIT**

This course focuses on the mastery of the National Standards for Foreign Language Education. The Spanish I course will use a natural approach and a variety of teaching methods and activities to immerse each student in the Spanish language and culture. The use of TPRS (Teaching Proficiency through Reading and Storytelling) will further ensure that students will experience whole language in context. There is a strong emphasis on building a beginning level vocabulary and developing reading comprehension skills through the use of level one “readers” and video supplements. While basic grammar rules are presented and applied, this course focuses primarily on receiving a written or spoken message as opposed to drilling and practicing grammatical structures.

## **SPANISH II SUMMER ENRICHMENT COURSE**

### **PRE-REQUISITE: SPANISH I AND BY INVITATION ONLY**

### **1.0 CREDIT UPON SUCCESSFUL COMPLETION OF SPANISH III**

This summer class is offered by invitation only to Spanish I Students identified as being Advanced in their language studies and capable of more intensive coursework. This course will guide students through the completion of the Spanish II curriculum. The expectation is that upon completion of all assignments and regular class attendance, students will pass the Spanish II final with a minimum of an 80% in order to be scheduled to take Spanish III during their sophomore year. Students will have the opportunity to progress through 4 levels of Spanish and have the option to take AP Spanish during their senior year depending on ability, progress, etc. Please see your instructor for further information.

## **462 SPANISH II**

### **Pre-requisite: SPANISH I**

### **1.0 CREDIT**

The Spanish II course continues to immerse students in level appropriate written and spoken Spanish input through the use of readers and videos in order to achieve mastery of the National Standards for Foreign Language Education. While the Spanish I class heavily focused on each student developing their Spanish listening and reading skills, the Spanish II class requires students to produce more spoken and written messages completely in Spanish. Students will continue to build vocabulary knowledge and apply more advanced grammatical structures (past tense) as they communicate in the Spanish language. In addition, classroom activities will require students to demonstrate their use of higher level thinking skills in both languages.

### **463 SPANISH III**

**Pre-requisite: SPANISH II**

**1.0 CREDIT**

This course focuses on achieving a level of proficiency through the mastery of the National Academic Standards for World Language. As students progress through this course, they will participate in a systematic study of the Spanish language with proficiency in integrating all 4 language skills (listening, reading, speaking, and writing). Students will experience the language and culture primarily through listening comprehension. In addition to audio input, an array of resources will be used to facilitate the acquisition process including advanced written material that provide an abundance of comprehensible input. With a balanced approach, including the use of TPRS (Teaching Proficiency through Reading and Storytelling), students will develop the ability to make critical judgments and communicate them effectively. This class will be conducted primarily in Spanish and continues the study of more grammatical structures. Each student will have the opportunity to reach a level of proficiency commensurate with his or her individual abilities through differentiation of daily tasks and communicative activities.

### **464 SPANISH IV**

**Pre-requisite: SPANISH III**

**1.0 CREDIT**

This course focuses on mastery of the National Academic Standards for World Language. As students progress through this course they will continue to participate in a systematic study of the Spanish language demonstrating proficiency in all 4 language skills (listening, reading, speaking, and writing). Students will experience the language and culture through the study of literature and film/video. An array of resources will be used to maintain and develop communicative abilities including authentic audio/video resources and print material that provide an abundance of comprehensible input. In this advanced level, students are required to make critical judgments and express themselves effectively and exclusively in Spanish. In addition, this course includes a rigorous study of basic and advanced grammatical structures. Each student will have the opportunity to reach an intermediate to advanced level of proficiency commensurate with his or her individual abilities and dedication to the daily communicative activities.

### **470 AP SPANISH**

**Pre-requisite: Spanish IV; SPANISH III (Only with teacher permission)**

**CREDIT**

In this course, students will devote themselves to developing the level of Advanced Proficiency in preparation for the AP exam. Students will focus on these five instructional standards: Communication, Cultures, Connections, Comparisons and Communities. Class activities will require students to demonstrate their understanding of the Cultures(s) through Interpersonal, Interpretive and Presentation modes of verbal and written Communication. The course curriculum incorporates interdisciplinary topics that will connect them to the native language and the target language affording students numerous opportunities to make Comparisons and demonstrate their language proficiency in actual settings/ (Communities).

# PRACTICAL ARTS

## 503 BASIC FOODS

### 0.5 CREDIT

In this course, students will learn basic food preparation techniques that will be useful in making a wide variety of foods. Here, we will practice preparing dishes that will become favorites for years to come, whether living independently or within a family setting. MyPlate will be the basis for the study of nutrition. The food groups represented on the plate will be studied in depth with preparations completed in each area. Clean up procedures will be part of the curriculum.

## 506 SPECIAL FOODS

### Pre-requisite: BASIC FOODS

### 0.5 CREDIT

When the basic practices for food preparation have been mastered, the students will be eligible to take part in Special Foods. The course is seasonal in nature as food preservation is included in the fall semester and cake decorating and candy making is included in the spring semester. Each student will choose a region of the United States or a foreign country to study in depth. Each student will complete a written and oral report. From his/her research, each student will develop and assist in the preparation of a meal characteristic of that country.

## 507 GOURMET FOODS

### Pre-requisite: BASIC FOODS

### 0.5 CREDIT

Gourmet Foods is an advanced course that has been developed so students may have the opportunity to cultivate and refine their tastes in food choices. They will also learn how to compute and compare the nutritional content of various foods. Students will have a wide range of recipes from which to choose as we strive to make “the ordinary extraordinary.”

## 508 HOUSING & HOME FURNISHING

### 0.5 CREDIT

This course includes the study of the home – inside and out. Students will examine choices of housing options and interior design, including design elements. The study of furniture styles and workmanship will be included as will a study of careers within the housing industry.

## 510 CHILD DEVELOPMENT

### 0.5 CREDIT

In this course, students will examine the responsibilities and challenges of having children. Each student will have the opportunity to experience the Empathy Belly and to participate in the Baby Think It Over activity. Students will document their experiences while being a ‘parent.’ Students will learn about the development of children and how to care for them. This class is helpful to anyone who plans to teach, go into the health care profession, or become a parent.

## 512 SPORTS NUTRITION

### 0.5 CREDIT

Sports Nutrition is a course designed to be useful for students who are considering health or coaching careers. A nutrient-based approach will be used as we consider each of the leader nutrients and their

effects on the individual. Throughout the semester, the students will identify their own nutritional practices and discuss ideas regarding the correction of any poor practices. They will explore issues including dietary guidelines, MyPlate Food Guide, food labels, healthy cooking, healthy weight and weight loss plans. They will discuss nutritional means of disease prevention, nutrition as it relates to physical activity, and facts and myths of nutrition. Special diets of the young and elderly will be included as well as health claims and current nutrition controversies.

### **514 BAKESHOP**

**Pre-requisite: Basic foods**

#### **0.5 CREDIT**

This is an elective course that sharpens your baking skills. Open the door to career opportunities, a lucrative part time job, or experiences to enhance your own home baking. In this course we will learn how ingredients work with one another as we prepare (and sample) breads, biscuits, cakes, and pastries.

### **517 TEXTILE ARTS**

#### **0.5 CREDIT**

As students progress through this course they will participate in a systematic study of concepts related to the textile industry and they'll have the opportunity to try their hand at basic skills and projects of their choice. Typical projects to choose from include sewing, quilting, knitting, crocheting, applique, embroidery, and/or mending. Units of study range from the evolution of textile production, historical investigation of influences on fashion through the ages, fabric finishes, color & design principles, and fashion. In addition, Textile Arts students will research careers, trends in technology, famous designers, and/or topics within the textile industry.

This course potentially opens up career opportunities, hobbies, side income, or possibly even new family traditions. Students can apply what they learn in this class to make economical decisions when purchasing garments, mend or recycle worn clothing, and take better care of their textiles in general.

### **230 ENGINEERING AND DESIGN**

#### **0.5 CREDIT**

Engineering and Design is one of the two foundation courses offered in the Engineering, Manufacturing and Industrial Technology (EMIT) Pathway. This course will focus on the principles of design and problem solving activities.

### **231 STRUCTURAL ENGINEERING**

**Pre-requisite: Engineering and Design**

**0.5 CREDIT**

Structural Engineering will focus on problem solving activities in the area of structural design as well as architecture. Students will be challenged with a number of assignments dealing with finding a solution to a problem. Students will utilize various 3D CAD software packages to aid them in their project designs.

### **232 TRANSPORTATION ENGINEERING**

**Pre-requisite: Engineering and Design**

**0.5 CREDIT**

Transportation Engineering will focus on problem solving activities in the areas of transportation. These activities will include projects involving land, air and water travel. Students will utilize various 3D CAD software packages to aid them in their project designs.

### **233 MECHANICAL ENGINEERING**

**Pre-requisite: Engineering and Design**

**0.5 CREDIT**

Mechanical Engineering will focus on problem solving activities in the area of mechanical design. Students will be challenged with a number of assignments where they must design a mechanism to solve a given problem. Students will utilize various 3D CAD software packages to aid them in their project designs.

### **234 ENERGY AND POWER ENGINEERING**

**Pre-requisite: Engineering and Design**

**0.5 CREDIT**

Energy and Power Engineering will focus on problem solving activities and projects dealing with energy and power. Various forms of energy, power and power transmission will be worked on. Students will utilize various 3D CAD software packages to aid them in their project designs.

### **235 Small Engines**

**Pre-requisite: Engineering and Design**

**0.5 CREDITS**

Small Engines is a course geared toward all the components of gasoline engines. This course will be divided evenly between the theory behind what makes the engines run and hands on work where the engines will be torn apart diagnosed and reassembled.

### **550 MANUFACTURING 1**

**0.5 CREDIT**

Manufacturing I is one of two foundation courses offered in the Engineering, Manufacturing and Industrial Technology (EMIT) Pathway. This course is designed to give students a base of knowledge in the areas of shop safety, tool usage, material processing and manufacturing.

## **551 MANUFACTURING 2**

**Pre-requisite: Manufacturing 1**

**0.5 CREDIT**

Manufacturing II will use more advanced processes in the area of manufacturing. Students will produce projects using many types of materials including metal, wood and plastics.

## **552 MANUFACTURING 3**

**Pre-requisite: Manufacturing 2**

**0.5 CREDIT**

Manufacturing III will allow students to manufacture even more advanced projects using various types of metal, wood and plastics.

## **553 MANUFACTURING 4**

**Pre-requisite: Manufacturing 3**

**0.5 CREDIT**

Manufacturing IV will allow students to design and create a project of their choosing involving the use of various materials. Students will be required to keep a journal/portfolio of the project. Students will be required to pay for or supply the materials used in the making of the project if they plan to take it home.

## **282 ENVIRONMENTAL SCIENCE**

**Pre-requisite: Biology I or Honors Biology**

**1.0 CREDIT**

Environmental Science is a year-long course for students considering a career in the environmental sciences or simply interested in the environmental science field. Students have a wide range of interest and understanding of this field and may plan to pursue an employment opportunity in the natural resources field upon graduation from high school. This course will stress an understanding of the delicate balance of nature and man's influence on that balance. Fresh water and terrestrial ecological principles will be stressed. Current issues dealing with pollution, toxic waste, acid rain, energy consumption and world food supplies will be examined. Basic fundamentals of conservation and wildlife management will be presented. Students will study in detail both aquatic and terrestrial ecosystems in addition to the causes and solutions to various environmental issues. Students will gain an understanding of all of Pennsylvania's natural resources with emphasis on forest management, wildlife management, aquatic ecosystems, soil science/management and a study of a chosen current environmental issue in our Commonwealth.

## **660 ANIMAL SCIENCE**

**Pre-requisite: BIOLOGY or HONORS BIOLOGY**

**0.5 CREDIT**

Within our student body there has always been a need and interest in the animal science field. In today's society, technology and job skills are a priority in obtaining and retaining employment. This course is designed to introduce and develop knowledge and skills necessary to work within the animal/veterinary science field. Live animals, specimens, models, tissue dissections, and industry professionals will be utilized in the instruction of animal handling, care techniques, and many other aspects related to veterinary science.

## **674 AGRICULTURAL SCIENCE I**

### **1.0 CREDIT**

Agricultural Science I will provide the student with a basic understanding of the agricultural industry. As entering this elective program, few students know exactly what career they wish to enter upon graduation from high school. Throughout this course, instruction is provided on many agricultural and agriculturally related aspects of this broad industry. Material being presented in this course is designed to provide a diversity of information to students who in turn can apply these principles to their own individual situations. Information being presented such as: Introduction to the FFA, Careers in Agriculture, Principles of Plant & Animal Sciences, Fundamentals in Arc Welding, Gas Welding and Heating, Woodworking Skills, Leadership Growth and Development, Food and Fiber Industry, Hand Tool Identification and Use, Power and Hand Tool Safety, Shop and Fire Safety, Bill of Materials, Introduction to Agricultural Business, Fasteners, and Agronomy.

## **6740 AGRICULTURAL SCIENCE I SP**

### **0.5 CREDIT**

This semester long Agricultural Science I course is designed to prepare and provide students with a look into the world of agriculture and environmental science. This hands-on semester elective course will provide an educational experience, which will involve activities in the following areas of instruction: In semester one units include: Careers in Agriculture, Bill of Materials, FFA/Leadership Development, General Shop Safety, Hand/Power Tool Safety, General Wood Working. In semester two units include: Careers in Agriculture, FFA/Leadership Development, Hand/Power Tool Safety, Plant Science, Food and Fiber Industry, Agronomy, Forestry and Wildlife and General Wood Working.

## **675 AGRICULTURAL SCIENCE II**

### **1.0 CREDIT**

Agricultural Science II will provide the student with a basic and advanced understanding of the agricultural industry. At this time, students have begun to develop interest areas where they would Like To specialize in a particular area. Throughout this course, instruction is provided in these specialty areas that are agricultural production oriented as well as agriculturally related to this industry. Material being presented in this course is designed to provide a specialized and diverse amount of information to students who in turn can apply these principles to their own individual situations. Information being presented such as: Careers in Agriculture, Sheet Metal Working, Cold Metal Working and Soldering, Principles of Animal Science, Tool Redressing and Conditioning, Advanced Arc and Gas Welding, Plasma Cutting, MIG/TIG Welding, Agronomy, Food Science, Farm/Agricultural Equipment Safety, and General Wood and Metal Working.

## **6750 AGRICULTURAL SCIENCE II SP**

### **0.5 CREDIT**

This semester long Agricultural Science II course is designed to prepare and provide students with a look into the world of agriculture and environmental science. This hands-on semester elective course will provide an educational experience which will involve activities in the following areas of instruction: In semester one units include: Farm/Agricultural Equipment Safety, Tool Redressing and Conditioning, Sheet Metal Working, Careers in Agriculture, Fasteners, General Wood and Metal Working and Agronomy. In semester two units include: MIG/TIG Welding, Advanced Arc Welding, Plasma Cutting, Food Science, Agronomy, Careers in Agriculture and General Wood and Metal Working.

## **676 AGRICULTURAL SCIENCE III**

### **1.0 CREDIT**

Agricultural Science III will provide the student with an advanced outlook of the agricultural industry. At this point in the student's educational career, they have continued to specialize in their own interest areas. Throughout this course, instruction is provided in these specialty areas that are agriculturally production oriented as well as agriculturally related to this industry. Material being presented in this course is designed to provide a specialized and diverse amount of information to students who in turn can apply these principles to their own individual situations. Information being presented such as: Careers in Agriculture, Animal Science, Plant Science, Plumbing, Agricultural Management, Concrete and Masonry Skills, Electrical Procedures, Plasma Arc Cutting, Turf/Landscape Management, General Wood and Metal Working, Christmas Tree Production, Meat Science, and Integrated Pest Management.

## **6760 AGRICULTURAL SCIENCE III SP**

### **0.5 CREDIT**

This semester long Agricultural Science III course is designed to prepare and provide students with a look into the world of agriculture and environmental science. This hands-on semester elective course will provide an educational experience which will involve activities in the following areas of instruction: In semester one units include: Animal Welfare, Meat Science, Careers in Agriculture, Plumbing, Agronomy and General Wood and Metal Working. In semester two units include: Electricity, ATV safety, Careers in Agriculture, Alternative Energies, General Wood and Metal Working and Irrigation and Drainage Systems.

## **677 AGRICULTURAL SCIENCE IV**

### **1.0 CREDIT**

Agricultural Science IV will provide the student with an advanced outlook of the agricultural industry. At this point in the student's educational career, they have continued to specialize in their own interest areas. Throughout this course, instruction is provided in these specialty areas that are agriculturally related to this industry. Also, involved with this course is cooperative work experience program. Material being presented in this course is designed to provide a specialized and diverse amount of information to students who in turn can apply these principles to their own individual situations. Information being presented such as: Hydroponics, Pneumatics, Agronomy, Ag Structures, Agricultural Systems, Ag Cooperatives, Hydraulics, Rafter Cutting, Electrical Wiring, Christmas Tree Production, Composting Methods, Turf/Landscape Management, Greenhouse Management, General Wood and Metal Working, Concrete and Masonry, and Agricultural Sales.

## **679 SUPERVISED AG EXPERIENCE (TEACHER RECOMMENDATION REQUIRED)**

### **1.0 CREDIT**

Supervised Agricultural Experience credit is awarded to students in grades 9-12 that are enrolled in the Agricultural Science program. In order to be approved for one credit the student must sign contracts and keep records of work completed, hours, and wages. An employment experience can be both on-farm and off-farm opportunities.

## **680 FOREST AND WILDLIFE SCIENCE**

### **0.5 CREDIT**

Forest Science will provide the student with a basic understanding of the forest industry. As entering this elective course, students have a wide range of interest and understanding of this field and may plan to pursue an employment opportunity upon graduation from high school. Through this course, instruction is provided on all areas of the forest management industry. Material being presented in this course is designed to provide a diversity of information to students who in turn can apply these principles to their own situations. Information being presented such as: Tree Growth & Identification, Forest Regeneration, Forest Improvement, Conditioning, and Management Practices. Wildlife Science will provide the student with a basic understanding of wildlife management. As entering this elective course, students have a wide range of interest and understanding of this field and may plan to pursue an employment opportunity upon graduation from high school. Throughout this course, instruction is provided on all areas of the wildlife management industry. Material being presented in this course is designed to provide a diversity of information to students who in turn can apply these principles to their own situations. Information being presented such as: Elementary Principles of Wildlife Management, Upgrading Habitats, Home Sites & Special Areas, Habitat Improvement, Bird & Mammal Identification, Legislative Process, People & Wildlife, Private Land Use, Fish & Reptile Identification, and Population Dynamics.

## **683 LAND SURVEYING**

### **0.5 CREDIT**

Within our local community, there are many independent land surveyors as well as surveying agencies/companies. Individuals who take this course will develop the basic skills needed to conduct land measurements, complete surveying activities and gain knowledge on how to use a global positioning system. Students will apply the course material to real world situations. Property ownership, property taxes, deeds, and other information crucial to future landowners will also be addressed. This course will offer additional skills related to the agriculture/natural resources articulation agreement with the Pennsylvania College of Technology.

# HEALTH AND PHYSICAL EDUCATION

## 701 HEALTH EDUCATION 10

### 0.5 CREDIT

This course is designed to provide students with the information necessary to develop a plan that will guide them toward a healthy lifestyle. As the culminating course in the district's comprehensive health curriculum, this course will focus on behavior change and attitude development. It is designed as the final phase on a wellness continuum that began with awareness and fosters the adoption of health-promoting behaviors.

## 701H HEALTH EDUCATION 10 - HYBRID

### 0.5 CREDIT

This course is offered as an alternative to 701 Health Class. The Hybrid course limits in class "seat time" to allow students the flexibility to accelerate in other areas. The content for this course follows the curriculum of the 701 course but is delivered in a digital and online format.

## 702 HEALTH ISSUES

### Pre-requisite: HEALTH EDUCATION

### 0.5 CREDIT

This course is designed to encourage students to analyze political, moral, ethical, and medical aspects of issues influencing their health and the health of our society. During the course, students will take an in-depth look at issues such as: alternative medicines, women's health issues, the health insurance industry, assisted suicide, eating disorders, nutrition, and current events in the health field.

## 703 SPORTS MEDICINE I (Instructor Approval Required)

### 1.0 CREDIT

This course will provide the student with an overview of Allied Health Profession. Instructional focus will be on basic emergency care, first aid, CPR, functional anatomy, common athletic injuries, injury assessment and management. Students will work directly with the Athletic Trainer in an academic and clinical setting.

## 704 SPORTS MEDICINE II

### Pre-requisite: Sports Medicine I

### 1.0 CREDIT

This course is a continuation of the Athletic Training I course. Students will develop skills general taping, stretching and rehabilitation techniques as they work in a clinical and practical environment. Students will work directly with the Athletic Trainer providing athletic training services to student-athletes. This course requires the student to complete observation hours and assist with event coverage after the usual school day.

## **705 ESSENTIALS OF PERSONAL TRAINING**

**Pre-requisite: HEALTH EDUCATION**

**0.5 CREDIT**

Students will explore training, conditioning and nutritional concepts that can be employed to maintain personal fitness and prevent injury. This course will prepare the student to sit for the Certified Personal Fitness Trainer's Exam.

## **706 KINESIOLOGY**

**Pre-requisite: HEALTH EDUCATION = 701 and 730; 9th Grade Physical Education 0.5 CREDIT**

Students will learn human skeletal and muscular anatomy, specific muscle movements/biomechanics, and how it relates to movement in human life and in Newton's Laws of Motion. Students will also learn about professions stemming from a Kinesiology Major/background. Students will need to study and have a fluent knowledge of skeletal anatomy and muscular anatomy. Students will be expected to take notes, tests, quizzes, write papers, and complete projects dealing with the human body and its movements.

## **707 ADVENTURE EDUCATION AND SPORT**

**Pre-requisite: 730 9th Grade Physical Education**

**0.25 CREDIT**

Students will participate in a variety of outdoor and recreational activities. Through activities the students will learn to participate in non-traditional school activities in order to promote lifelong physical activity.

\* This course is offered in the summer only during the month of June. Meeting Time: 9:00 a.m. - 12:00 p.m.

\* Students must complete a registration form for this class. An activity fee of \$200.00 will be assessed to cover the cost of activities.

## **730 PHYSICAL EDUCATION - 9TH GRADE**

**0.5 CREDIT**

Students participate in activities that are designed to help them understand and develop the components of health-related fitness and value physical activity and its contributions to a healthy lifestyle. The program includes a wide variety of group and individual activities with systematic and effective instruction and practice time provided to ensure student achievement. Emphasis is also placed upon strategy/tactics, patterns of play, and the contributions to personal and cultural life, as well as skill development.

## **741 LIFETIME SPORTS AND ACTIVITIES**

**Pre-requisite: 730 9th Grade Physical Education**

**0.25 CREDIT**

Students will engage in activities that promote physical activity throughout their lifetime. Students should be prepared for class to be held outside until late October (warm clothing is strongly encouraged). Activities may include: Golf - Frisbee Golf - Lawn Games - Weightlifting/Fitness – Volleyball – Archery.

## **742 PERSONAL FITNESS, RACQUET SPORTS AND GROUP ACTIVITIES**

**Pre-requisite: 730 9th Grade Physical Education**

**0.25 CREDIT**

Students will participate in a wide range of racquet sports and team net games. Using a variety of activities to promote a healthy lifestyle. The following activities will be offered as part of this course: Tennis - Speedminton - Badminton - Wall Ball - Pickleball - Nitro Ball - Volleyball

## **743 FITNESS AND TEAM SPORTS**

**Pre-requisite: 730 9th Grade Physical Education**

**0.25 CREDIT**

Students will engage in activities that promote physical activity through group and team sports and activities. Students will apply team and problem solving strategies to attain team and group goals.

## **744 COMPETITIVE PHYS ED**

**Pre-requisite: Completion of either- 741, 742 or 743 AND Instructor Approval Required 0.25 CREDIT**

Students in Competitive P.E. will specialize in fitness activities and weight lifting. Students will apply knowledge, skills, and attitudes acquired in physical education experiences from grades kindergarten to twelve to become proficient or advanced in one or more activities that lead to achieving personal goals. In addition, students can pursue excellence in the activities they choose, following a specific regimen and honing specific skills. Competitive P.E. will be more physically demanding than other P.E. classes.

## ADDITIONAL INFORMATION AND OPTIONS

### ACE PROGRAM - COLLEGE COURSES

Juniors and Seniors may take college courses from Bloomsburg University in conjunction with their high school work. Students wishing to take advantage of this opportunity must talk with their guidance counselor before registering for the college course. A college level course can be taken only if the course sequence was completed or scheduled to be completed in that content area. Information concerning BU's Advance College Experience program is available in the guidance office. The following rules concerning college courses will be in place:

- **University courses may not be used to meet Central Columbia Board of Education approved sequences and graduation requirements. This includes required electives and Pathway electives.**

Locally, the Bloomsburg University ACE program and Luzerne County Community College Early College program allow school districts to partner with eligible post-secondary partners to offer high school juniors and seniors who can show they are ready to earn college credit while in high school. You can see your guidance counselor or the high school principal for more details.

### ADVANCED PLACEMENT

Advanced Placement courses are accelerated courses that allow students to receive college credit for courses completed while the student is in high school. To qualify for college credit, the student must achieve a particular grade in the exam that is given in May. The awarding of college credit is at the discretion of the University or College. The exam is developed and graded by the College Board Testing program. Central Columbia High School offers Advanced Placement courses in English, Calculus, Statistics, Biology, Physics, American History, Government, European History and Spanish.

### MINIMUM CREDIT REQUIREMENTS

Each student should schedule a minimum of 7.0 credits per year at Central Columbia High School unless participating in Work Release, a School-Based Internship or college courses. **Students are not permitted to have more than 6 study halls per six-day cycle.**

### FAILED COURSES

If a student has failed a required course they must reschedule the course as soon as possible. Students may elect to go to summer school to make up the course. Students who have failed required courses should see their guidance counselor to discuss options.

### PROMOTION POLICY

Students will not be promoted to the next grade unless the following number of credits is achieved: to grade 10 - 5 credits, to grade 11 - 11 credits, to grade 12 - 18 credits.

### COURSE DROPPING PROCEDURES

Students will receive their schedules before summer and have an opportunity to make appropriate adjustments before the start of school. **After a course has been in session, students must carry the course to completion. Students who drop courses will receive a WF (Withdraw/Failing) grade.** Difficulty of a course is not a reason to drop a course.

## **GUIDANCE SERVICES AND COUNSELORS**

The Guidance Office at Central Columbia High School serves as the central location for student services including; academic preparation and planning, social adjustment/interpersonal relations, and post-secondary education/career planning. Guidance counselors are available to assist you in choosing the most appropriate courses to meet your educational goals. In addition, Mr. Groshek and Mr. Snyder will also work with you and your parents to help you select courses that best suit your needs.

### **GUIDANCE COUNSELORS**

Mrs. Alycia Fairchild and Mr. Jason Bartholomew

### **ACADEMIC SERVICES**

- Enrollment and course scheduling for students.
- Orientation/registration for new students and 9th graders.
- Academic course planning selection, and scheduling changes.
- Process Vo-Tech applications.
- Facilitate and/or interpret all types of testing (i.e., KEYSTONES, PSAT, SAT, ASVAB, Advanced Placement).
- Assist with the IEP process for special needs students through referrals for testing and evaluation.
- Process grades and credits toward graduation.
- Keep cumulative and permanent student records updated.
- Send transcripts to post-secondary institutions and employers.
- Advise students about college requirements as well as programs like Guaranteed Admission through Bloomsburg University and S.T.E.M.
- Communicate academic progress with students, staff, and parents via quarterly progress reports and report cards.
- Arrange and conduct parent/teacher conferences and serve as a liaison between students, parents, and staff.
- Maintain a web page for current guidance information.

### **ADMINISTRATORS**

Mr. Jeff Groshek and Mr. Chris Snyder

- Post information on summer programs available to high school students.

### **PERSONAL AND SOCIAL SERVICES**

- Serve as members of the High School Student Assistance Team
- Conduct individual or group counseling
- Counsel students with personal, mental health and substance abuse concerns
- Make referrals to agencies such as Mental Health and Children & Youth for students in crisis need

### **CAREER DEVELOPMENT**

- Assist students with course selection and planning related to their career goals
- Administer and Interpret an interest inventory for career research and serve as a resource to students and faculty advisors
- Schedule visits from college, technical schools, and military representatives
- Assist students with career related needs such as shadowing and college visits
- Coordinate the student application process for colleges and post secondary training
- Host Financial Aid Information night for parents

### **GUIDANCE WEB SITE**

<http://www.ccsd.cc/hs/guidance>

**GUARANTEED ADMISSION AGREEMENT**  
**CENTRAL COLUMBIA SCHOOL DISTRICT**  
**AND**  
**BLOOMSBURG UNIVERSITY OF PENNSYLVANIA**

**Preface**

1. Central Columbia School District (Central) and Bloomsburg University (BU) enter into this Guaranteed Admission Agreement to facilitate the enrollment of Central students at BU.
2. Under the Guaranteed Admissions Agreement, Central students will be guaranteed admission into a Bachelor's Degree program at BU on the condition that they achieve/complete each of the following:
  - Graduate from Central and achieve a minimum 500 Verbal and 500 Math score on the SAT; and,
  - Achieve a combined SAT score of at least 1100 on the Verbal and Math portions; and,
  - Earn a minimum of 90% cumulative grade point average at Central; and,
  - Apply to BU by December 15 of the students' senior year (November 15 for Nursing, Medical Imaging, Speech Pathology, Biology and Allied Health Majors), to seek admission for the following fall class at BU; and,
  - Satisfy all other BU application requirements to the major.
3. In addition to the guaranteed admission criteria listed above, prospective majors in (1) Chemistry, (2) Physics, (3) Engineering Technology, (4) Geoscience, (5) Mathematics, (6) Computer Science, (7) Computer Forensics, (8) Nursing, (9) Speech Pathology, (9) Medical Imaging, (10) Biology and (11) Health Science will need to achieve/complete the following:
  - Earn a minimum grade of "B" in the following courses or course options at Central: Biology, Chemistry or Physics, Algebra 2, and Geometry.
4. Central students applying for guaranteed BU admissions with Combined SAT scores of 1150 (Verbal and Math) or higher, minimum scores of 550 on both the Verbal and Math SAT, and in the top 20% of their class will also be invited to apply for the Bloomsburg University Honors Program.
5. The Guaranteed Admissions Agreement becomes effective on August 24, 2009 or upon approval of all required representatives of all parties as indicated on the signature page, whichever is later. The first eligible graduating class from Central to participate in this agreement will be the Class of 2013 (incoming freshman class of 2009).

## **Obligations of Bloomsburg University**

To facilitate the enrollment of Central graduates at BU in accordance with the foregoing guarantee, the parties agree to the following:

1. To attend regularly scheduled information sessions at Central to promote the agreement. BU will provide Central with information and fact sheets to distribute upon request.
2. To invite Central students to participate in regular Open House programs and other recruitment opportunities on the BU campus,
3. To include provide current information to Central juniors and seniors regarding participation in the BU ACE program.
4. To send a Bloomsburg University letter of acceptance to all Central students who achieve the conditions outlined in this agreement for the appropriate major at BU no later than February 15, for the fall semester.

## **Obligations of Central Columbia**

1. To publicize this agreement to Central students in its promotional literature, and to make special arrangements for BU recruiters and advisors to visit Central to meet with prospective Guaranteed Admissions students.
2. To provide BU with copies of student transcripts and other student information that is necessary to verify guaranteed admission to the appropriate major at BU.
3. To promote BU's ACE program for Central juniors and seniors.

## **Joint Obligations**

1. To consult with each other through appropriate channels prior to implementing major changes in policy or curricula that directly affect students applying to BU under the terms of this agreement, and to keep each other informed of any other changes of policy or curricula that affect those students. Both BU and Central will review this agreement annually and make any changes upon mutual agreement, as needed. Such changes will become effective when both Central and BU sign the revised document.
2. To collaborate in providing students with academic advising and information about this agreement, BU academic requirements, and the process of applying to BU.
3. To develop and implement advertising and promotional efforts to communicate the benefits of a Guaranteed Admissions program.
4. Each institution will designate a representative or representatives who will coordinate the Guaranteed Admission Agreement between the two institutions.

