

Revised March 31, 2016

***ALBERT GALLATIN AREA SENIOR HIGH
SCHOOL***



COURSE OFFERINGS

2016-2017

SCHEDULING REFERENCE SHEET

High School Graduation Requirements			
9th Grade	10th Grade	11th Grade	12th Grade
(1) English	(1) English	(1) English	(1) English
(1) Mathematics	(1) Mathematics	(1) Mathematics	(1) Mathematics
(1) Science	(1) Science	(1) Science	(1) Science
(1) Social Studies	(1) Social Studies	(1) Social Studies	(1) Social Studies
(.5) Phys. Ed.	(.5) Phys. Ed.	(.5)	(.5)
(.5) Health	(.5)	(.5)	(.5)
(.25) Personal Dev.	(.5)	(.5)	(.5)
(.25) Research Study Skills	(.5)	(.5)	(.5)
(.5)	(.5)	(.5)	(.5)
(.5)	(.5)	(.5)	(.5)

Please note: Honors Biology, Honors Chemistry, AP Biology, AP Chemistry, and AP Physics are 2 periods and 2 credits.

- *Beginning with the Class of 2019, students in 10th or 11th grade must take a Career Readiness class in order to be eligible for graduation.*

CAREER AND TECHNOLOGY INSTITUTE Graduation Requirements			
9th Grade	10th Grade	11th Grade	12th Grade
(1) English	(1) English	(1) English	(1) English
(1) Mathematics	(1) Mathematics	(1) Mathematics	(1) Mathematics
(1) Science	(1) Science	(.5) Science (.5)	(.5) Science (.5)
(1) Social Studies	(.5) Social Studies (.5)	(.5) Social Studies (.5)	(.5) Social Studies (.5)
(.5) Phys. Ed.	(.5) CTI Shop	(.5) CTI Shop	(.5) CTI Shop
(.5) Health	(.5) CTI Shop	(.5) CTI Shop	(.5) CTI Shop
(.5)	(.5) CTI Shop	(.5) CTI Shop	(.5) CTI Shop
(.5)	(.5) CTI Shop	(.5) CTI Shop	(.5) CTI Shop
(.5)	(.5) CTI Shop	(.5) CTI Shop	(.5) CTI Shop
(.5)	(.5) CTI Shop	(.5) CTI Shop	(.5) CTI Shop

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ENGLISH

FACULTY

Ashley Brooks

Jessica DuBois

Tammy Cowsert

Tina Muzina-Blevins

Michelle Dougherty

Lauren Clemmer

Cindy Halfin

Kristin Martin

Kim Swaney

ENGLISH 9

FULL YEAR

GRADE 9

1.0 CREDIT

Prerequisite: English Grade 8

Description: Through participation in General English 9, students advance their basic skills in the core areas of reading, writing, speaking, and listening. Students read and respond to a variety of fiction and nonfiction. The literature includes novels, short stories, poetry, drama, essays, and autobiographical sketches. In response to research and reading, students write complex persuasive, informational, and narrative essays. Emphasis is on supporting students in the development and improvement of critical thinking skills such as analysis, synthesis, evaluation, and creativity as they seek to understand and appreciate multiple perspectives. Through a variety of independent and cooperative learning experiences, students refine language arts skills to ready themselves for future careers.

ACADEMIC ENGLISH 9	FULL YEAR	GRADE 9	1.0 CREDIT
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Prerequisite: An 85 average in the grade 8 English course.

Description: In Academic English 9, an advanced course for the college-bound, students refine their higher order skills in the core areas of reading, writing, speaking, and listening. Students read and respond to a variety of complex works including both fiction and nonfiction. The literature includes novels, short stories, poetry, drama, essays, and autobiographical sketches. In response to extensive research and reading, students write complex persuasive, informational, and narrative essays. Emphasis is on supporting students in the development and improvement of critical thinking skills such as analysis, synthesis, evaluation, and creativity as they seek to understand and appreciate multiple perspectives. Through a variety of independent and cooperative learning experiences, students refine language arts skills to ready themselves for college and career.

HONORS ENGLISH 9	FULL YEAR	GRADE 9	1.0 CREDIT
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Prerequisite: Proficient score on the PSSA reading assessment and a 93 average in the grade 8 English course.

Description: To enroll in Honors English 9, the most advanced English class offered to freshmen at the high school, students must excel in English Language Arts. Students enroll in the Honors class based on teacher recommendation, and they must complete a summer reading assignment. Students participate in activities aimed at refining their advanced understanding in the core areas of reading, writing, speaking, and listening. Students read and respond to a variety of complex works including both fiction and nonfiction. The literature includes novels, short stories, poetry, drama, essays, and autobiographical sketches. In response to extensive research and reading, students write complex persuasive, informational, and narrative essays. Emphasis is on supporting students in developing and improving critical thinking skills such as analysis, synthesis, evaluation, and creativity as they seek to understand and appreciate multiple perspectives. Through a variety of independent and cooperative learning experiences, students refine language arts skills to ready themselves for college and career.

Compared to the other English classes, this course will involve additional projects, readings, and writings as well as more challenging testing and a faster rate of study.

KEYSTONE ENGLISH 10 FULL YEAR GRADE 10 1.0 CREDIT

Prerequisite: English 9

Description: Students concentrate on the improvement and mastery of critical reading, writing, listening and verbal expression of ideas, as well as focus on their preparation for college and career in Keystone Literature 10. Through extensive readings, students will be exposed to such literary genres as the short story, poetry, drama, novel and informational text. Students read and analyze many complex texts and apply critical thinking, comprehension, and evaluation skills and strategies to assist their understanding and appreciation of multiple perspectives. Furthermore, students will demonstrate proficiency through research based projects, formal and informal writing assignments, and collaboration.

ACADEMIC KEYSTONE ENGLISH 10 FULL YEAR GRADE 10 1.0 CREDIT

Prerequisite: Academic English 9 with an 85 Average or higher or 90 or above average in English 9.

Description: Students concentrate on the improvement and mastery of critical reading, writing, listening, and verbal expression of ideas, as well as focus on their preparation for college and career in Academic Keystone Literature 10. Through extensive readings, students are exposed to literary genres including short story, poetry, drama, novel, and informational text. Students read and analyze many complex texts and apply critical thinking, comprehension, and evaluation skills and strategies to assist their understanding and appreciation of multiple perspectives. Furthermore, students demonstrate proficiency and mastery through research based projects, formal and informal writing assignments, communication and collaboration. Students complete independent reading and writing activities, as well as higher-level thinking and critical research based projects.

HONORS KEYSTONE ENGLISH 10 FULL YEAR GRADE 10 1.0 CREDIT

Prerequisite: Proficient score on the PSSA reading assessment, and a 90 average in Honors English 9, a 93 average in Academic English 9, a 93 average in English 9 and teacher recommendation.

Description: In Honors Keystone Literature 10, a course designed for the exceptional student that excels in the English Language Arts content area, students concentrate on the refinement and mastery of critical reading, writing, listening, and verbal expression of ideas. Additionally, students focus on their preparation for college and career. Through extensive readings, students will be exposed to such literary genres as the short story, poetry, drama, informational text, and several novels. Students read and analyze many complex texts, and apply critical thinking, comprehension, and evaluation skills and strategies to assist their understanding and appreciation of multiple perspectives. Furthermore, students will demonstrate proficiency through research based projects, formal and informal writing assignments, and collaboration. Honors level students complete many rigorous independent reading

and writing assignments and activities, as well as higher-level thinking and critical research based projects. The completion of a summer assignment is required for Honors Keystone Literature 10.

ENGLISH 11	FULL YEAR	GRADE 11	1.0 CREDIT
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Prerequisite: English 10

Description: In English 11, students will be exposed to pivotal works of American Literature through readings of such literary genres as the short story, poetry, drama, informational text, and a novel. Students analyze seminal and foundational U.S. and world texts based on reasoning and rhetoric, as well as works of literature that reflect a variety of genres and major periods. Students will analyze and evaluate purpose, audience, and task (biases) and cite strong, thorough textual evidence based on and related to the author's implicit and explicit assumptions and beliefs through formal and informal writing assignments. Finally, students will conduct research projects and/or make strategic use of digital media to answer a question by evaluating, organizing and integrating multiple sources and ideas.

ACADEMIC ENGLISH 11	FULL YEAR	GRADE 11	1.0 CREDIT
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Prerequisite: Academic English 10 with an 85 Average or higher or 90 or above average in English 10.

Description: In Academic English 11, students will study pivotal works of American Literature through thorough readings of such literary genres as the short story, poetry, drama, informational text, and several novels. Students analyze seminal and foundational U.S. and world texts based on reasoning and rhetoric, as well as works of literature that reflect a variety of genres and major periods. Students will analyze and evaluate perspective in connection to purpose, audience, and task (biases) and cite strong, thorough textual evidence based on and related to the author's implicit and explicit assumptions and beliefs through formal and informal writing assignments. Emphasis is placed on the analysis of the interaction between and development of themes or ideas over the course of a text or multiple texts. Finally, students will be expected to complete independent reading and writing activities, make strategic use of digital media, as well as complete research projects to answer various literary questions by evaluating, organizing and integrating multiple sources and complex ideas to make informed decisions on how the specifics relate to the whole.

HONORS ENGLISH 11	FULL YEAR	GRADE 11	1.0 CREDIT
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Prerequisite: A Proficient score on the Keystone Literature Exam and a 90 average in Honors English 10 course, a 93 average in Academic English 10, or a 93 average in English 10 with teacher recommendation.

Description: In Honors English 11, a course designed for the exceptional student that excels in the English Language Arts content area, students will be exposed to pivotal works of American Literature through extensive readings of such literary genres as the short story, poetry, drama, informational text, and several novels. Students will analyze and evaluate perspective in connection to purpose, audience, and task (biases) and cite strong, thorough textual evidence based on and related to the author's

implicit and explicit assumptions and beliefs. Emphasis is placed on the analysis of the interaction between and development of themes or ideas over the course of a text or multiple texts. Students analyze and evaluate the impact of an author's rhetorical choices (i.e., point of view, purpose, style) on their writing and reasoning, including claims and counterclaims, as well as precise language such as metaphor, simile, and analogy. They analyze seminal and foundational U.S. and world texts based on reasoning and rhetoric, as well as works of literature that reflect a variety of genres and major periods. Finally, students will conduct sustained research projects and/or make strategic use of digital media to answer a question by evaluating, organizing and integrating multiple sources and complex ideas to make informed decisions on how the specifics relate to the whole. The completion of a summer assignment is required for Honors English 11.

AP LANGUAGE & COMPOSITION	FULL YEAR	GRADE 11	1.0 CREDIT
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Prerequisite: A 90 Average in Honors English 10 or Honors English 11, or a 93 or above average in Academic English 10, and a proficient score on the Keystone Literature Exam.

Description: Advanced Placement English Language and Composition teaches and requires students to write in several forms (e.g., narrative, expository, analytical, and argumentative essays) about a variety of subjects (e.g., public policies, popular culture, personal experiences). Students will be expected to write essays that proceed through several stages or drafts, with revision aided by teacher and peers. Additionally, this course requires students to write in informal contexts in response to a variety of readings (e.g., imitation exercises, journal keeping, collaborative writing, and in-class responses) designed to help them become increasingly aware of themselves as writers and of the techniques employed by the writers they read. Students will learn appropriate research skills, and in particular, the ability to evaluate, use, and cite primary and secondary sources. The course assigns projects such as the researched argument paper, which goes beyond the parameters of a traditional research paper by asking students to present an argument of their own that includes the analysis and synthesis of ideas from an array of sources and cite sources using a recognized editorial style (e.g., Modern Language Association).

ENGLISH 12	FULL YEAR	GRADE 12	1.0 CREDIT
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Prerequisite: English 11

Description: This course is designed to help students improve their skills in analysis and formal writing. Students will explore the breadth of styles and themes from British literature. The course includes the chronological history of British literature from ancient to modern texts, including epic poetry, lyric poetry, philosophical exposition, plays, the short story, the novel, and non-fiction. Students will also craft various informal and formal writings including literary analysis.

ACADEMIC ENGLISH 12	FULL YEAR	GRADE 12	1.0 CREDIT
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Prerequisite: Academic English 11 with an 85 average or higher or 90 or above average in English 11.

Description: This course is designed for the student intending to pursue post-secondary education of any kind with emphasis on analysis and formal writing. Students will explore the breadth of styles and themes from British literature while helping each student to sharpen his/her own reading analyses and writing skills. The course includes the chronological history of British literature from ancient to modern texts, including epic poetry, lyric poetry, philosophical exposition, plays, the short story, the novel, and non-fiction. Students will also craft various informal and formal writings including literary analysis.

HONORS ENGLISH 12	FULL YEAR	GRADE 12	1.0 CREDIT
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Prerequisite: A proficient score on the Keystone Literature Exam and a 90 average in Honors English 11 course, a 93 average in Academic English 11 or a 93 average in English 11 with teacher recommendation.

Description: This course is designed for the student who intends to pursue post-secondary education of any kind with emphasis on analysis and formal writing and who is talented in reading comprehension. Students will explore the breadth of styles and themes from British literature while helping each student to sharpen his/her own reading analyses and writing skills. The course includes the chronological history of British literature from ancient to modern texts, including epic poetry, lyric poetry, philosophical exposition, plays, the short story, the novel, and non-fiction. Students will also craft various informal and formal writings including literary analysis. This course moves at a faster pace than Academic English 12, requires a summer reading assignment, and requires more independent reading outside of school.

AP ENGLISH LITERATURE & COMPOSITION	FULL YEAR	GRADE 12	1.0 CREDIT
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Prerequisite: An 85 average AP English Language & Composition, a 90 average in Honors English 11, or a 93 or above average in Academic English 11, and a proficient score on the Keystone Literature Exam.

Description: Advanced Placement English Literature and Composition includes an intensive study of representative works such as those by authors cited in the AP English Course Description. The choice of works for the AP course is made by the school in relation to the school's overall English curriculum sequence, so that by the time the student completes AP English Literature and Composition she or he will have studied during high school literature from both British and American writers, as well as works written in several genres from the sixteenth century to contemporary times. The works selected for the course require careful, deliberative reading that yields multiple meanings. Student will learn to write an interpretation of a piece of literature that is based on a careful observation of textual details, considering the work's structure, style, and themes, the social and historical values it reflects, and such elements as figurative language, imagery, symbolism, and tone. Students will be expected to frequently write and rewrite formal, extended analyses and timed, in-class responses such as:

1. Writing to understand: Informal, exploratory writing activities that enable students to discover what they think in the process of writing about their reading (such assignments could include annotation, freewriting, keeping a reading journal, and response/reaction papers).

2. Writing to explain: Expository, analytical essays in which students draw upon textual details to develop an extended explanation/interpretation of the meanings of a literary text.
3. Writing to evaluate: Analytical, argumentative essays in which students draw upon textual details to make and explain judgments about a work's artistry and quality, and its social and cultural values.

DEVELOPMENTAL READING FULL YEAR GRADE 9 1.0 ELECTIVE CREDIT

Prerequisite: Any student scoring basic or below basic on the 8th grade Reading portion of the PSSA test may be considered for this course.

Description: Students practice comprehension, fluency, word attack, vocabulary, spelling and writing skills. Students use diagnostic software to practice and track progress in those six areas as well as track independent reading growth. Students focus on analysis of reading and writing grounded in evidence from text. Students analyze how the author unfolds a series of events, including the order in which the points are made, how they are introduced and developed, as well as connections made between them. Students acquire and use with independence academic as well as domain specific words at the college and career readiness level. Students develop fluency through the use of repeated readings and Readers' Theater plays.

CREATIVE WRITING I SEMESTER GRADE 11, 12 .5 ELECTIVE CREDIT

Prerequisite: English 10

Description: In this introductory class, students will learn the fundamentals to write poetry, short stories, drama, and literary nonfiction. In addition, students will participate in critiques of other students' work. Upon completion of this course, students will be familiar with the tools needed to create fictional and poetic forms of writing. Students will understand plotting and outlining, characterization, creating realistic dialogue, how to use active language, show as well as tell, understand and develop their own voices, how to use setting, mood and sensory language, how to create an effective hook, back-story, suspense, climatic scenes and effectual denouement, and how to polish and revise their finished works.

CREATIVE WRITING II SEMESTER GRADE 11, 12 .5 ELECTIVE CREDIT

Prerequisite: Average of 85 or better in Creative Writing I

Description: In this class, students will continue to refine and enhance their abilities to write poetry, short stories, drama, children's books, novellas and literary nonfiction. In addition, students will participate in critiques of other students' work. Upon completion of this course, students will have the skills needed to create fictional and poetic forms of writing. Students will understand and be comfortable with plotting and outlining, characterization, creating realistic dialogue, how to use active language, show as well as tell, understand and develop their own voices, how to use setting, mood and sensory language, how to create an effective hook, back-story, suspense, climatic scenes and effectual

denouement, and how to polish and revise their finished works into a comprehensive portfolio showcase.

SPEECH AND PRESENTATION SEMESTER GRADE 9, 10, 11, 12 .5 ELECTIVE CREDIT

Description: Speech and Presentation is an introductory course for students who wish to improve their oral communication skills. Students research, organize, and deliver various types of speeches to inform, to persuade, and to entertain. Through teacher and peer feedback, students will work to improve both verbal and nonverbal aspects of their speaking.

APPLIED COMMUNICATIONS FULL YEAR/SEMESTER GRADE 9, 10, 11, 12 1.0/.5 ELECTIVE CREDIT

Prerequisite: Must apply to take the course - Sponsor Recommendation

Description: Students learn the journalistic and technical skills needed to craft and publish the 170-200 page yearbook (The Colonial), using industry standard software and hardware. The course is a product-driven business with consumers, deadlines, finance, and a hierarchical organization with student managers. Students should apply if they have strong writing skills, are deadline oriented, detail-minded, and organized, and enjoy working with others, including shared responsibilities, good customer service, and effective interviewing.

MATHEMATICS

FACULTY

Brandon Berkshire

Mary Ann Hughes

Anne-Marie Koss

Charles Shimshock

Joyce Umble

Dave Diamond

Cindy Kopas

Julia Pillar

Stephen Sokol

Mark Schuessler

ALGEBRA I Block

FULL YEAR

GRADE 9

2.0 CREDITS

Prerequisite: Math 8

Description: Students in Algebra I Block master the fundamentals of Algebra I in a double period to prepare them for the Keystone Algebra I exam. Units of study include operations and properties of real

numbers and expressions, solving linear equations and inequalities, relations, functions and their graphs, percent of change and an introduction to data analysis and probability. Students graph linear equations and inequalities, solve systems of linear equations and inequalities, simplify and perform operations with polynomials, and study measures of dispersion and compound probability. Students learn the essential skills for success in today's world, such as critical thinking, problem solving, communication and collaboration. A scientific calculator is required.

KEYSTONE ALGEBRA IB	FULL YEAR	GRADE 9, 10	1.0 CREDIT
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Prerequisite: Successful completion of Algebra IA

Description: Students in Algebra IB extend the mathematical and algebraic concepts learned in Algebra 1A. This is the second year of a two year course in Algebra I. Units of study focus on graphing linear equations and inequalities, systems of linear equations and inequalities, polynomials and their operations, measures of dispersion and compound probability. Students learn the essential skills for success in today's world, such as critical thinking, problem solving, communication and collaboration. The final unit of study is a comprehensive review in preparation for the Keystone Algebra 1 Exam at the end of this course. A scientific calculator is required.

GEOMETRY	FULL YEAR	GRADE 10, 11, 12	1.0 CREDIT
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Prerequisite: Successful completion of Algebra II

Description: Students formalize, deepen and extend their algebraic skills in order to solve problems in Geometry. Abstract mathematical concepts as well as real-world problem situations are explored. Units of study include the building blocks of Geometry, congruence and proof, classifications of triangles and quadrilaterals, similarity in polygons, right triangles and trigonometry, and circles. Additionally, students explore both two and three dimensional figures in terms of their areas, surface areas and volume.

ALGEBRA II	FULL YEAR	GRADE 9, 10, 11	1.0 CREDIT
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Prerequisite: Successful completion of Algebra IB or Algebra I Block

Description: Students in Algebra II continue to build their algebra skills as they work with linear, quadratic, and exponential functions while they extend their repertoire to include polynomial, rational, and radical functions. Students work closely with expressions that define the functions and continue to expand their abilities to model situations and to solve equations. They solve quadratic equations over the sets of real and complex numbers and solve exponential equations using the properties of logarithms. Students apply the Fundamental Counting Principle as they determine probabilities of simple and compound events and analyze arithmetic and geometric sequences. Students in Algebra II experience mathematics as a coherent, useful and logical subject that uses their ability to make sense of problem situations both in the math classroom and in the real world.

PRE-CALCULUS/TRIG	FULL YEAR	GRADE 10, 11, 12	1.0 CREDIT
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Prerequisite:

- Average of 85 or higher in Algebra II and Geometry
- Successful completion of Summer Assignment

Description: Pre-Calculus with Trigonometry is a college prep course that is designed to equip the college bound student with the algebraic and trigonometric skills needed to succeed in either Calculus or AP Calculus. Topics covered include Relations, Functions and Graphs, Trigonometry, Advanced Functions and Graphing, and Discrete Mathematics, which includes Probability and Statistics. Emphasis is placed on doing trigonometric problems with and without a calculator. A graphing calculator is recommended.

CALCULUS	FULL YEAR	GRADE 12	1.0 CREDIT
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Prerequisite:

- Successful Completion of Pre-Calculus/Trig
- Successful completion of Summer Assignment

Description: This course is designed for the student who will need to take Calculus for their college major, such as Engineering, Mathematics, and Medical Fields. The course includes a review of Pre-Calculus Mathematics (functions, graphing techniques, and algebra). Topics covered include Functions, Limits, Differentiation Techniques and Applications (such as Velocity, Acceleration, Business, Economics, and Science), Curve Sketching and Optimization problems, Integration Techniques and Applications, Logarithmic and Exponential Functions.

AP CALCULUS AB	FULL YEAR	GRADE 12	1.0 CREDIT
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Prerequisites:

- An average of 90 or higher in Pre-Calculus
- Successful completion of Summer Assignment

Description: This course in AP Calculus consists of a full high school academic year of work that is comparable to calculus courses in college. Students who enroll in AP courses must follow the district Advanced Placement Policy and take the AP test offered by the College Board. Before studying calculus, students should complete Algebra I, Algebra II, Geometry, and Pre-calculus with Trigonometry. Calculus AB is primarily concerned with the students' understanding of the concepts of calculus and providing experience with its methods and applications. The concepts covered are Limits, Derivatives, Integrals, Applications, and Modeling. A graphing calculator is required.

CHS Analytic Geometry and Calculus I	FULL YEAR	GRADE 12	1.0 CREDIT
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Prerequisites:

- An average of 90 or higher in Pre-Calculus.
- Students are expected to have strong Algebra and Trigonometry skills. A passing score set by the University of Pittsburgh on the ALEKS placement exam is required in order to register for the CHS credits for this course. Deadlines and scoring requirements will be announced prior to the end of this school year. Students will need to pay a tuition fee to be eligible for Pitt credit.
- Successful completion of Summer Assignment

Description: This course is the standard first course in a basic calculus sequence required for all mathematics, science, engineering, and statistics students. Topics covered in this course include functions and graphs, limits, derivatives, trigonometric functions, application of the derivative, integral, applications of the integral, and exponential and logarithmic functions. As time allows, the College in High School course may include the differentiation of the logarithmic and exponential functions. CHS Calculus is appropriate for concurrent enrollment with AP Calculus AB since most topics in CHS Calculus overlap with the curriculum of AP Calculus AB.

FINANCIAL LITERACY **FULL YEAR** **GRADE 12** **1.0 CREDIT**

Prerequisite: A student must be a senior and have successfully completed Algebra II.

Description: Students in Financial Literacy develop an understanding and competent awareness of young adult and life choices that involve mathematics. Students learn various income structures, purchasing a used vehicle, checking account transactions and maintenance, leasing an apartment, filing taxes, credit and credit card management, distinguishing between good and bad debt, purchasing a new vehicle, mortgaging a house, and investments through stocks and CD's. Students experience a variety of activities in this course including guest speakers, real-life projects, homework assignments, quizzes, tests, and online investigations.

PROBABILITY AND STATISTICS **FULL YEAR** **GRADE 12** **1.0 CREDIT**

Prerequisite: A student must be a senior and have successfully completed Algebra 2 and Geometry with a final average of 85 or higher.

Description: Students in Probability and Statistics develop the basic tools of probability theory and statistical analysis. Students will cover topics in both descriptive and inferential statistics. Units of study primarily focus on developing and interpreting various graphs with given data, frequency distributions, summarizing data, counting methods using permutations and combinations, axiomatic probability and statistical inference. Statistical inference topics include applied sampling, estimation, hypothesis testing, correlation, regression analysis and analysis of variance. Students learn important real-world skills such as critical thinking, analyzing, interpreting and communication using the results of statistical analysis. A scientific calculator is required.

C++ PROGRAMMING **FULL YEAR** **GRADE 11, 12** **1.0 ELECTIVE CREDIT**

Prerequisite: Average of 85 or better in Algebra B or Algebra I Block

Description: This course is designed for the student who is considering entering the Mathematics, Engineering or Science fields. Greater emphasis will be placed on problem solving and higher order thinking.

CHS COMPUTER SCIENCE FULL YEAR GRADE 12 1.0 ELECTIVE CREDIT

Prerequisite: One full year of computer programming (C++ Programming) and final grade of 90 or above.

Description: AP Computer Science involves object-oriented programming methodology which includes the study of data structures and abstraction. The emphasis is on problem solving and algorithm development. AP Computer Science is meant to be the equivalent of a first semester college course in computer science.

SAT PREPARATION COURSE SEMESTER GRADE 11, 12 (*Semester 1 Only*) 0.5 ELECTIVE CREDIT

Prerequisite: Successful completion of Algebra I Block or Algebra IB

Description: This one semester course helps college bound students prepare for both the verbal and math sections of college entrance examinations. One nine weeks will be devoted to each area of verbal and math. Students will be given approaches and strategies for answering the various types of questions found on the SAT and other college entrance exams. Time will be spent focusing on the areas that make up the verbal section including sentence completion, paragraph-length critical reading, long passage critical reading, grammar, and essay writing. Students will also do work in the areas that make up the math section including basic math, equations, percentages, radicals, and principles of Algebra and Geometry. Students will gain familiarity with the SAT test format through sample tests and computer software.

SOCIAL STUDIES

FACULTY

Bethany Chicarelli

Kristi Kaiser

Eric Kurosky

Gerald Quinn

Lester Everly

Jeff Kopas

Michael Long

Christy Wolfe

US/HISTORY INDUSTRIAL REVOLUTION-1945 FULL YEAR GRADE 9 1.0 CREDIT

Description: This course focuses on student exploration of U.S. History through political, economic, social and cultural themes spanning the expansion of American industry to the cold war era. Students will focus on developing critical analysis skills through reading and writing assignments. Students will be required to complete more challenging homework, examinations and independent research projects.

HONORS US/ HISTORY INDUSTRIAL REVOLUTION-1945 FULL YEAR GRADE 9 1.0 CREDIT

Prerequisite: Proficient score on the 8th grade PSSA reading assessment, and a 93 average in the previous year's social studies class.

Description: This course will go more in depth to focus on student exploration of U.S. History through political, economic, social, and cultural themes spanning the expansion of American industry to the cold war era. Students will focus on developing critical analysis skills through more challenging reading and writing assignments. Students will complete a biographical research paper each semester. They will also complete guided reading activities, writing assignments, a presentation, and small group projects.

WORLD HISTORY & CULTURE FULL YEAR GRADE 10 1.0 CREDIT

Prerequisite: US/ History Industrial Revolution-1945

Description: This course is designed to provide students with an understanding of the past, an awareness of the present and decision-making skills to prepare for the future. Issues of war, religion, gender, politics and how they related to the important events of the past will be examined. Particular attention will be given to diversity and multiculturalism.

HONORS WORLD HISTORY/CULTURE FULL YEAR GRADE 10 1.0 CREDIT

Prerequisite: A student must have an average of 90 or above in their Honors US/History Industrial Revolution-1945 class or an average of 93 or above in their US/History Industrial Revolution-1945 class.

Description: Students will examine a timetable beginning with the Renaissance through the present day. This course will require students to go into more depth than the academic World History course including more rigorous readings, homework, and examinations. Issues of war, religion, gender, politics, and how they are related to the important events of the past will be examined. Particular attention will be given to diversity and multiculturalism. This course will use a variety of strategies including critical thinking, compare and contrast, web quests, and analyzing primary sources. Less time is spent on review and more time will be spent on in-depth historical content. Students should be highly motivated and have an above average interest in social studies.

AMERICAN GOVERNMENT FULL YEAR GRADE 11 1.0 CREDIT

Prerequisite: World Culture/History

Description: This course is a full year study of the structures, processes and issues of national, state and local government. This course studies the Constitution, Congress, Presidency, Supreme Court, political parties, and civil rights while giving emphasis to the responsibilities and rights of citizens and the knowledge appropriate for wise decision making.

HONORS AMERICAN GOVERNMENT FULL YEAR GRADE 11 1.0 CREDIT

Prerequisite: A student must have a 90 or above in Honors World History/Culture or a 93 or above in World History.

Description: This course is a full year study of the structures, processes and issues of national, state and local government. This course studies the Constitution, Congress, Presidency, Supreme Court, political parties and civil rights while giving emphasis to the responsibilities and rights of citizens, the knowledge appropriate for wise decision making and the skills necessary for critical thinking. The honors level course requires students to utilize higher order thinking skills such as analysis and synthesis, while completing more rigorous assignments and in-class projects. Students will develop advanced skills such as formulating their own ideas about government, advanced written expression, and self-directed primary source readings. Students should be highly skilled in reading, writing, speaking, and should be very motivated to engage in higher level thinking.

MODERN AMERICAN HISTORY FULL YEAR GRADE 12 1.0 CREDIT

Prerequisite: 3.0 Social Studies Credits

Description: This course in modern American History will use a chronological cause and effect approach to the political, economic, military and social history of the United States from the end of World War II to the present day. The course focuses on the decisions, events, and people that shaped our nation's history from the latter half of the 20th century through our present day.

Modern American History addresses the need for inclusion of contemporary American history into the Social Studies curriculum. Students will have the ability to broaden their knowledge of American History and to understand the implications on their lives.

PRINCIPLES OF DEMOCRACY FULL YEAR GRADE 12 1.0 CREDIT

Prerequisite: American Government - World Culture

Description: The first semester will give the students a comprehensive study of the basic institutions, concepts, principles, and practices of economics. Instruction covers basic economic concepts that regulate the United States market system and its operations. This course will also promote informed consumer decision making. The students will be able to make appropriate and well-informed decisions about earning money, saving, investing and spending, make an analysis of the American Free Enterprise, and instruction on the international dimensions of economics and the "global" economy. The second

semester provides students with practical information and problem solving opportunities that develop students the knowledge and skills necessary for survival in our legal society. A variety of case studies, role-plays, mock trials, small group exercises, and visual analysis activities are utilized. This portion is beneficial for all students whether they have aspirations to work in some phase of the judicial system, or hope to be well-informed citizens in their community.

HONORS PRINCIPLES OF DEMOCRACY FULL YEAR GRADE 12 1.0 CREDIT

Prerequisite: Student must have a 90 or above in Honors American Government or a 93 or above in American Government.

Description: In this advanced course, students will focus on the principles of law and economics. Students should be highly motivated and skilled in the following areas: reading, writing, and speaking. Students should be eager to engage in higher level thinking. In the first semester, students will analyze economic concepts, how markets work and their structures, business and labor organizations, economic challenges, and international trade. Finally, students will conduct research projects, demonstrations, collaborative projects and simple experiments to help reinforce concepts. The honors level course requires students to analyze current national and international economic systems, create scenarios that represent consumer decision making, evaluate the American Free Enterprise, and complete assigned in-class projects. In the second semester, students will master the history of written law and related topics such as criminal law and tort law. The honors level course requires students to analyze the use of law through case studies, debates, and assigned in-class projects. Students will utilize higher order thinking skills to provide analysis and evaluation of past and current legal issues. Students will develop advanced skills such as formulating their own ideas about the legal system, analytical written expression in the form of critiques of court cases and written law as it exists today, and self-directed case study evaluations.

AP UNITED STATES HISTORY FULL YEAR GRADE 12 1.0 CREDIT

Prerequisite: A student must have a 90 or above average in Honors American Government or a 93 or above in American Government.

Description: This demanding course is designed to provide a college-level experience and preparation for the AP Exam. Students will be examining a timetable from the earliest civilizations to the present day. An emphasis is placed on interpreting and analyzing documents, primary sources, comparing and contrasting aspects of American history, mastering a significant body of factual information, and writing document-based and free-response essays. The course will emphasize a series of thematic learning objectives throughout the year. These objectives have been determined by the College Board as essential to a comprehensive study of United States history. The themes will include: Identity, Work, Exchange, and Technology, Peopling, Politics and Power, America in the world, Environment and geography, and ideas, beliefs, and culture. Students will develop historical thinking skills. Students will be required to complete a summer assignment and must adhere to the school district's Advanced Placement Policy.

PSYCHOLOGY **SEMESTER** **GRADE 11, 12** **.5 ELECTIVE CREDIT**

Prerequisite: A student must have an 80 or above in the previous year's Social Studies class.

Description: This course focuses on the study of human behavior and how it pertains to understanding a complete range of human experiences. Topics discussed include the psychological disorders, memory and the human thought process, sleep function and restoration, feelings and emotions, overall developmental stages, and the history of psychology's greatest founding fathers and achievements. Regular activities and formal assignments related to group discussion and collaboration, presentations, written projects and cumulative logs serve to reinforce course concepts.

PSYCHOLOGY II **SEMESTER** **GRADE 11, 12** **.5 ELECTIVE CREDIT**

Prerequisite: A student must have an 85% or above in Psychology.

Description: This course builds on the knowledge gained from Psychology I. The main focus of this course is on human development from infancy to adulthood. Students will also be focusing on social interactions, intelligence, motivation and emotions. Through class discussions, projects and written expression, students will develop a solid foundation of developmental and social psychology. The goal of this course is to enable students to deal more fully with their own lives. Students should gain an understanding into their own development and build a basis for effective living.

SCIENCE

FACULTY

Durell DeCarlo

Mike Dunham

Michael Revak

Aimee Parquette

Bethany Herman

Elizabeth Mulac

KEYSTONE BIOLOGY A/LAB	FULL YEAR	GRADE 9	1.0 CREDIT
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Prerequisite: Successful Completion of Science 8

Description: Keystone Biology A is the first segment of a two year study of Biology. Keystone Biology A students learn basic concepts including methods of science, basic biochemistry, microbiology, cellular structure and function, ecology, populations, and evolution. Students explore concepts and themes associated with living organisms, structure and function, and changes in living forms over time. Students are challenged to think critically, solve problems, and know that biology is an essential addition to their general education. Students are assessed using the concepts and competencies from the PA Keystone Biology Exam.

HONORS KEYSTONE BIOLOGY/LAB	FULL YEAR	GRADE 9	2.0 CREDIT
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Prerequisite: A 93 average in 8th Grade Science and a 93 Average in Algebra B.

Description: Honors Keystone Biology students learn concepts including methods of science, biochemistry, microbiology, cell energetics, cell division, homeostasis, genetics, ecology, populations, and evolution. Students explore concepts and themes associated with living organisms, structure and function, inheritance, and changes in living forms over time. Students are challenged to think critically, solve problems, and know that biology is an essential addition to their general education. Students are assessed using the concepts and competencies from the PA Keystone Biology Exam.

KEYSTONE BIOLOGY B/LAB	FULL YEAR	GRADE 10	1.0 CREDIT
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Prerequisite: Successful Completion of Keystone Biology A

Description: Keystone Biology B is the second segment of a two year study of Biology. Keystone Biology B students learn concepts including methods of science, biochemistry, microbiology, cellular structure and function, bioenergetics, homeostasis, transport, genetics, cell growth, and cell division. Students explore concepts and themes associated with living organisms, structure and function, inheritance, and changes in living forms over time. Students are challenged to think critically, solve problems, and know that biology is an essential addition to their general education. Students are assessed using the concepts and competencies from the PA Keystone Biology Exam.

INTRODUCTION TO CHEMISTRY	FULL YEAR	GRADE 11	1.0 CREDIT
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Prerequisite: Successful Completion of Keystone Biology B and Algebra B

Description: Introduction to Chemistry is an introductory level course that will cover topics including the organization and classification of matter, atomic theory, the periodic table of elements, naming, writing formulas, and building molecules of chemical compounds, and principles of chemical reactions. This course also focuses on essential lab skills such as measuring and calculating.

CHEMISTRY I/LAB	FULL YEAR	GRADE 10, 11, 12	1.0 CREDIT
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Prerequisite: Successful Completion of Keystone Biology B and Algebra B

Description: The central theme of the course is the basic principle that properties of matter are a consequence of the structure of matter. Topics include Measuring and Calculating, The Mole Concept, Structure of Matter, Chemical Reactions, Periodicity of Elements, and Gases and the Mole. Throughout the course, students are introduced to societal and environmental issues involving science or scientific personnel. Chemical theories and concepts combined with quantitative problems make the program challenging.

Course Goals: The aim of the course is to enable students to develop a better understanding of their physical world. Students will perform quantitative and qualitative laboratory experiments. In class, a major aim is to develop a systematic approach to problem solving.

HONORS CHEMISTRY/LAB	FULL YEAR	GRADE 10	2.0 CREDIT
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Prerequisite: Average of 90 in Honors Keystone Biology or an Average of 93 in Biology B and an average of 93 in Algebra B or 90 in Algebra II.

Description: Honors Chemistry is a year-long (double-period) course that introduces the fundamental language, ideas, and tools used in the study of chemistry. This advanced introductory high school chemistry course covers key topics such as the structure and properties of matter, measurements and calculations, the periodic table, chemical bonding, nomenclature, chemical reactions, stoichiometry, solutions, and common laboratory practices. Emphasis will be placed on the use of chemistry in the real world and our daily lives. Honors Chemistry will give students the skills necessary to describe chemical processes and behaviors and to solve numerical and verbal problems in chemistry. Upon completion, students will have a solid foundation in chemistry and will be prepared for AP Chemistry and college-level chemistry courses.

PHYSICS/LAB	FULL YEAR	GRADE 11, 12	1.0 CREDIT
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Prerequisite: Successful Completion of Biology and Chemistry

Description: Students will be introduced to a problem-solving approach geared to producing an understanding of the physical laws and processes governing the universe as related not only to physics but to other sciences as well.

Use of mathematical skills in solving word problems will be emphasized. Laboratory sessions are an integral part of the course. A scientific or graphing calculator is required.

HONORS PHYSICS/LAB	FULL YEAR	GRADE 11, 12	1.0 CREDIT
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Prerequisite: An average of 90 in Honors Chemistry or an Average of 93 in Chemistry and Geometry

Description: Students will be introduced to a problem-solving approach geared to a possible career in Science, Mathematics, or Engineering. The physical laws and processes governing the universe will be covered with a strong emphasis on Mechanics. Students will solve word problems with concepts from Algebra II, Geometry, and Trigonometry, as well as, performing laboratory experiments as an integral part of the course. A scientific or graphing calculator is required.

ANATOMY/PHYSIOLOGY/LAB	FULL YEAR	GRADE 11, 12	1.0 CREDIT
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Prerequisite: Average of 85 in Biology and Chemistry

Description: A lecture and laboratory course in the anatomy and physiology of the human body. This course covers the fundamental and principle concepts of human anatomy and physiology and microbiology. Topics include an introduction to the structure and function of cells, tissues, and human organ systems, and an overview of microbiology, epidemiology, and control of microorganisms. Laboratory study enhanced via microscope study of tissues, preserved specimens and anatomic models, the use of interactive computer models, cat dissection, and other various organisms; to relate structure to function.

PHYSICAL SCIENCE	FULL YEAR	GRADE 11, 12	1.0 CREDIT
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Prerequisite: Successful Completion of 2 Science Credits and Algebra B

Description: This course integrates mathematics as a problem-solving approach geared towards topics in the areas of chemistry and physics. Concepts such as the advanced study of matter and energy, Newton's laws of motion, forces and energy, wave motion and energy, heat and temperature, electricity and magnetism, and communication technology will be covered throughout the course.

CHS PHYSICS	FULL YEAR	GRADE 12	2.0 CREDIT
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Prerequisite: A 90 or above average in Physics, Biology and Chemistry

Description: Students considering advance studies in Science or Engineering with a strong mathematical background are encouraged to choose this course. Some concepts covered in CHS Physics are similar to those in Physics/Lab but follow the University of Pittsburgh Physics 0174 curriculum, including Calculus. New areas such as Fluid Dynamics, Thermodynamics, Wave Motion, Electricity, Magnetism, Relativity Theory, and AC Circuits will also be explored. A scientific or graphing calculator is required. It is required that the student take the four exams (one per nine weeks) from the University of Pittsburgh. Students will earn 4 college credits upon successful completion of this course.

AP BIOLOGY/LAB	FULL YEAR	GRADE 11, 12	2.0 CREDIT
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Prerequisite: Average of 90 or above in Biology and Chemistry. This course must be taken after or concurrently with a Physics course.

Description: The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. It will include those topics regularly contained in a high quality college program in introductory biology. The aim of the course is to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. It is required that the student take the Advanced Placement Exam during the second week of May.

CHS CHEMISTRY	FULL YEAR	GRADE 11, 12	1.0 CREDIT
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Prerequisite: Average of 90 or above in Chemistry, Biology, and Geometry. This course must be taken after or concurrently with a Physics course.

Description: This is the first half of a two-term introduction to general chemistry. Topics include atomic theory, molarity, gases and kinetic theory, thermochemistry, electronic structure and the periodic table, relationships between phases, ionic solutions and acid/base theories, redox reactions, carbon chemistry, rates of reactions, chemical equilibria, and thermodynamics. This course requires laboratory sessions and exams on the University of Pittsburgh campus. Students may earn four college credits upon successful completion of this course.

FORENSIC SCIENCE	SEMESTER	GRADE 11, 12	.5 ELECTIVE CREDIT
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Prerequisite: At least an 80% average in Chemistry I or Honors Chemistry, Biology and Algebra II.

Description: This course will cover topics that would be used in the forensic science field. The topics covered would be applied in crime scene situations and involve a final project where all skills learned will be applied. The topics covered would include but are not limited to: Hand writing analysis, foot print analysis, finger print analysis, powder analysis, questioning techniques, evidence collections methods, preparation of a crime scene, gunshot residue, blood splatter analysis, analyze trials/cases, learn to use evidence in court, physiological angles to crimes as well as physical, in depth knowledge about career options in this field as well as college programs. Required Materials: Scientific Calculator version TI83 or higher.

ELECTIVES REQUIRED BY THE END OF GRADE 12

FACULTY

John Burd

Thomas Corazzi

Eric Sampson

Tammy Cowsert

Karla Lent

April Serock

PHYSICAL EDUCATION	SEMESTER	GRADE 9, 10, 11, 12	.5 CREDIT
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Description: The students will learn a variety of activities that can be used after graduation. These activities will help them on their way to be physically fit. Their physical skills and endurance will improve. To pass the course each year, you must dress and participate in each class. Points will be deducted from your grade each time you do not dress or participate.

General Physical Education

This course is for true freshmen only and is the only physical education option available for freshmen. Students will learn various fundamentals and rules of a variety of lifestyle sports, team sports, weight training and aerobic activities. Students will be required to perform a pre- and post- fitness assessment.

Weight Training/Aerobic Fitness

This course is offered to 10th-12th grade students. Beginning and advanced will be offered to students. This course is designed for students to learn proper lifting techniques, spotting methods, weight room safety and workout routines. Activities will include, but are not limited to, a multitude of lifts utilizing free weights and machine weights, as well as an emphasis on conditioning and fitness.

Students will learn a variety of cardiovascular fitness activities. Emphasis will be placed on wellness of the student. Activities include but are not limited to: step, kickboxing, pilates, yoga, toning, circuit training and other continuous activities.

Team Sports/Lifetime Leisure Activities

This course is offered to 10th-12th grade students. Students will learn a variety of rules, skills, fundamentals and strategies in multiple team activities. Safety and sportsmanship will be emphasized. Activities include but are not limited to: basketball, volleyball, flag football, soccer, softball, kickball and wiffle ball.

Students will learn a variety of rules, skills, fundamentals and strategies in a variety of individual and dual sport activities. Safety and sportsmanship will be emphasized. Activities include, but are not limited to: golf, bowling, bean bag toss, shuffle board, badminton, pickle ball, table tennis and other individual and dual sports.

HEALTH	SEMESTER	GRADE 9, 10, 11, 12	.5 CREDIT
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Description: This course will consist of in-depth studies of Living a Healthy Life and Building Health Skills. The three components of the Health Triangle (Physical, Mental/Emotional, and Social) will be covered. Included in this course is the study of Sexually Transmitted Diseases and Acquired Immune Deficiency Syndrome.

COLLEGE/CAREER READINESS	SEMESTER	GRADE 10, 11, 12	.5 CREDIT
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Description: This course will help students develop cognitive strategies, academic behaviors, and contextual skills that are critical to success in college and the workplace. Through real-world application

of 21st Century contexts, students will optimize communicative and interpersonal competencies; apply thinking and problem-solving strategies; and develop time-management self-directional skills. Students will also be afforded opportunities to examine their personal interests and readiness skills; explore career and postsecondary education options; and, learn about postsecondary education options from partnering colleges, universities and training institutes. This course is required by the end of Grade 12.

PERSONAL DEVELOPMENT NINE WEEKS GRADE 9 .25 CREDIT

Description: This course is offered to 9th graders for a nine week period. Students receive the guidance and academic/social support needed to be successful through a wide variety of hands on activities which promote a successful transition by acclimating students to high school. Freshmen will develop skills in improving self-esteem, decision making, and communication skills that help them diffuse social dilemmas and cope with peer pressure. Students will also prepare for successful relationships and making good decisions about their sexual behavior.

RESEARCH STUDY SKILLS NINE WEEKS GRADE 9 .25 CREDIT

Description: Freshmen students learn the methodologies and techniques used to conduct subject related research. Students analyze and evaluate various note taking and study skills methods and utilize the methods most helpful to them. Students focus on the consequences of plagiarism and the importance of paraphrasing. Students evaluate print and non-print materials, and primary and secondary sources, to support selection of research materials. Students learn to execute the completion of reports, including correct Modern Language Association formatting and citations. The students' culminating project is the completion of a Career Research paper written and cited in Modern Language Association format.

WORLD LANGUAGES ELECTIVES

FACULTY

Tina Muzina-Blevins

Craig Neighbors

Alison Vandegrift

SPANISH I	FULL YEAR	GRADE 9, 10, 11, 12	1.0 CREDIT
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Prerequisite: Obtained a Proficient score on the PSSA 8th Grade Reading Assessment

Description: A communicative approach to the basic elements of the language including listening, speaking, reading, writing and culture. Emphasis is on a "top down" or "whole language" approach to language instruction through which students manipulate language to communicate thoughts by using higher level skills before attending to discrete language structures with the use of lower level skills. Students will have ample opportunity to participate in meaningful, authentic communicative situations.

SPANISH II	FULL YEAR	GRADE 9, 10, 11, 12	1.0 CREDIT
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Prerequisite: Spanish I with an average of 80 or above.

Description: The primary goal of Spanish II is to have students continue to develop proficiency in the five basic skills: listening, speaking, reading, writing and cultural awareness. Students must not only learn the structures of the Spanish language but also, apply what they have learned in real life situations. The emphasis is on communication while increasing the students' awareness, knowledge, and appreciation of the Spanish language.

SPANISH III	FULL YEAR	GRADE 10, 11, 12	1.0 CREDIT
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Prerequisite: Spanish II with an average of 80 or above.

Description: The goal of Spanish III is to emphasize competency and provide comprehensive practice in listening, speaking, reading writing, and cultural awareness. The students will be developing communicative competency by using the language in practical, everyday situations, thus gaining, a basic, usable grasp of the language.

The emphasis is on real life situations in which students interact in Spanish. Students will participate in two or more pair and/or group activities. These activities gradually increase in sophistication, beginning with lists of questions that two students ask each other, then moving first to situational dilemmas and eventually to open-ended descriptions.

GERMAN I	FULL YEAR	GRADE 9, 10, 11, 12	1.0 CREDIT
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Prerequisite: Obtained a Proficient score on the PSSA 8th Grade Reading Assessment

Description: A communicative approach to the basic elements of the German language including listening, speaking, reading, writing and culture. Emphasis on a "top down" or "whole language" approach to language instruction through which students manipulate language to communicate thoughts by using higher level skills before attending to discrete language structures with the use of lower level skills. Students will have ample opportunity to participate in meaningful, authentic communicative situations.

GERMAN II **FULL YEAR** **GRADE 10, 11, 12** **1.0 CREDIT**

Prerequisite: German I with an average of 80 or above.

Description: The primary goal of German II is to have students continue to develop proficiency in the four basic skills: listening, speaking, reading, and writing. Students must not only learn the structures of the German language but also apply what they have learned in real life situations. The emphasis is on communication while increasing the students' awareness, knowledge, and appreciation of the German language.

GERMAN III **FULL YEAR** **GRADE 11, 12** **1.0 CREDIT**

Prerequisite: German II with an average of 80 or above.

Description: The goal of German III is to emphasize competency and provide comprehensive practice in listening, speaking, reading, writing, and cultural awareness. The students will be developing communicative competency by using the language in practical, every day situations, thus gaining, a basic, usable grasp of the language.

The emphasis is on real life situations in which students interact in German. Students will participate in two or more pair and/or group activities. These activities gradually increase in sophistication, beginning with lists of questions that two students ask each other, then moving first to situational dilemmas and eventually to open-ended descriptions.

TECHNOLOGY EDUCATION ELECTIVES

FACULTY

Jeff Rush

Ken Musko

MECHANICAL DESIGN TECHNOLOGY SEMESTER GRADE 10, 11, 12 .5 CREDIT

Description: In this course students develop critical thinking and problem solving skills through hands on laboratory activities. This course integrates the technological problem solving method with the knowledge of science, mathematics, and other disciplines. It provides students the opportunities to research, design, develop, build, test and evaluate solutions to real life problems related to meeting human needs and wants. Content is drawn from all areas of technology.

MATERIAL TECHNOLOGY I SEMESTER GRADE 9, 10, 11, 12 .5 CREDIT

Description: This semester class will introduce students to material fabrication and machine operation. The utilization of power and hand tools is used to create a project from start to finish. This course is oriented toward careers in cabinetry and carpentry. A small fee will be charged for project materials.

MATERIAL TECHNOLOGY II SEMESTER GRADE 09, 10, 11, 12 .5 CREDIT

Prerequisite: Successful Completion of Materials I (9th Grade Second semester only)

Description: This course is a continuation of Material Technology I focusing on further development of skills and accuracy of hand and machine use. Emphasis will be on accurate development of joinery in a variety of projects. This course advances the skills needed for careers in cabinetry and carpentry. A small fee will be charged for project materials.

INTRODUCTION TO COMPUTER AIDED DESIGN SEMESTER GRADE 10, 11, 12 .5 CREDIT

Description: This class introduces the student to Pro/Engineer Software. The students will be introduced to solid modeling techniques used in industry. The course will cover the construction of basic geometric shapes, building solid models, and creating multi-view drawings.

ARCHITECTURAL DESIGN SEMESTER GRADE 10, 11, 12 .5 CREDIT

Prerequisite: Successful Completion of Introduction to Computer Aided Design

Description: In this course, students will further explore Auto CAD, Revit Architecture and the other Computer Aided Design software programs. The students will apply their software knowledge to various architectural drawing and design situations and problems. Students will study the architectural design process from start to finish and apply this process to real world design problems. An emphasis will be placed on utilizing the student's design skills, creativity, and imagination. The students will use their computer skills along with architectural design, science, technology, engineering, and math concepts to complete the various activities in this class. 2nd semester only.

TECHNOLOGY & DESIGN PRODUCTION SEMESTER GRADE 12 .5 CREDIT

Prerequisite: Photography I

Description: Studio course in screen printing with emphasis on digital printing and photo emulsion process. Students are exposed to a range of techniques and concepts and are encouraged to investigate personal motivations while making multiple color prints. T-shirts will be the main product of this course.

INTRODUCTION TO ENGINEERING DESIGN FULL YEAR GRADE 10, 11, 12 1.0 CREDIT

Prerequisite: An 85 or higher in Algebra II or Geometry

Description: Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

PRINCIPLES OF ENGINEERING FULL YEAR GRADE 10, 11, 12 1.0 CREDIT

Prerequisite: Successful completion of Introduction to Engineering Design

Description: Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research and design while learning strategies for design process documentation, collaboration and presentation.

FINE ART ELECTIVES

FACULTY

Andrew Keener

Ken Musko

Eric Nuttall

Caitlin Solan

ART I	SEMESTER	GRADE 9, 10, 11, 12	.5 CREDIT
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Description: This art course is designed for students to develop an appreciation for art, to increase basic skills with a variety of media, and instill a confidence in their ability, which will encourage them to further explore other art experience.

Activities include realistic drawing and crafts such as coiled basketry and mask making. Also included will be printmaking, painting techniques, and color theory using watercolors and acrylics, and ceramics using hand builds and coiling methods.

ART II	SEMESTER	GRADE 10, 11, 12	.5 CREDIT
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Prerequisite: Art I with an average of 80 or above.

Description: This is a basic Fine Arts course, which will include the five major areas of art: Drawing (pencil, colored pencil, pastels, calligraphy), Painting (tempura, acrylic, watercolor, colored ink), Printmaking (stencil, linoleum block, basic silkscreen), Fabrics (weaving, needlepoint, T-shirt design), and Crafts. Primarily two-dimensional projects and occasional three-dimensional ones will be included. Emphasis will be on design and composition.

ADVANCED DRAWING I	SEMESTER	GRADE 10, 11, 12	.5 CREDIT
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Description: This course is for High School Visual Arts Core Curriculum. Drawing focuses on black and white or monochromatic rendering from life, pictures, masterworks, and imagination. With an emphasis on studio production, this course is designed to develop high-level thinking, art-related technology skill, art criticism, art history, and aesthetics.

ADVANCED DRAWING II	SEMESTER	GRADE 11, 12	.5 CREDIT
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Prerequisite: Advanced Drawing I with an average of 80 or above.

Description: This course is designed to teach students to draw what they see and what they imagine. A variety of drawing media will be introduced, including pencil, graphite stick, charcoal, pen and ink, oil pastel, color pencil. Studio work will develop and reinforce student understandings of the elements and principles of art and design. Students will create critique, evaluate, and appreciate works of art. Students will explore their own aesthetic views. Art history will be infused throughout the course.

CERAMICS/SCULPTURE I	SEMESTER	GRADE 10, 11, 12	.5 CREDIT
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Prerequisite: Art I with an average of 80 or above.

Description: This is a hand-building ceramic class with emphasis using pinch, coil, and slab building methods. The Ceramic I students will become familiar with the decorative techniques to finish a piece. This will include under glazing and glazing and their unique differences.

Eight pieces will be required to finish this course.

CERAMICS/SCULPTURE II	SEMESTER	GRADE 10, 11, 12	.5 CREDIT
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Prerequisite: Ceramics I with an average of 80 or above.

Description: This course will be an expansion of Ceramics I and the student enlisting in this class will have fulfilled the requirements from Ceramics I.

The students in Ceramics II will develop further knowledge of ceramic hand-building techniques, assume responsibility for self-directed activities, explore their imagination within scope of the assignments and apply the correct vocabulary during the creation of each piece. The student will explore/experiment with different glazing techniques.

Four to five pieces will be required to finish this course.

CERAMICS/SCULPTURE III	SEMESTER	GRADE 11, 12	.5 CREDIT
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Prerequisite: Ceramics II with an average of 80 or above.

Description: This course will include introduction to wheel-throwing clay. The student will become familiar with the dynamics of the potter's wheel (centering throwing, removing). The student will become familiar with kiln firing basics and will be introduced to the loading of the electric kiln. They will learn the proper care of the kiln, preparing potter wheel, and cleaning of potter's wheel.

Because of the limited space for this course only the serious Ceramic students should sign-up for this class (this course requires a great deal of practice to finish a piece.)

Three - four symmetrical pieces will be required to finish this course.

PHOTOGRAPHY I	SEMESTER	GRADE 11, 12	.5 CREDIT
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Prerequisite: Must have a working 35mm camera.

Description: This course will cover the basic principles of photography including the following: how a camera works, how to develop black and white film, and how to print pictures in the dark room. Students will be expected to keep a notebook.

PHOTOGRAPHY II	SEMESTER	GRADE 11, 12	.5 CREDIT
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Prerequisite: Photography I with an average of 80 or above.

Description: This course will include more advanced photography techniques, including darkroom techniques; special effects photography, high contrast photography, night photography, and copy stand pictures. The class will also cover some aspects of digital photography, including scanning of slides and negatives, and digital manipulation of images. This is a project-oriented class.

INTRO. TO TELEVISION/VIDEO PRODUCTION SEMESTER GRADE 9, 10, 11, 12 .5 CREDIT

Description: Introduction, orientation and use of digital video equipment and other basic tools in video production. The course will focus on theory, terminology and operation of video equipment and the responsibilities of television personnel. Students will be assigned projects to produce and will experience all major functions of a production team.

AGTV (TELEVISION/VIDEO PROD. II) FULL YEAR/SEMESTER GRADE 10, 11, 12 1.0/.5 CREDIT

Prerequisite: Must have taken Intro. to Television/Video Production and received an 80 or above average.

Description: Students will develop the skills to create and operate a high school television station (AGTV).

This course is designed as a natural transition from Introduction to Television/Video Production. In this course the student will put into practice the concepts and abilities learned in the previous course. Each student will serve as producer and/or director for all major productions created at AGTV Studios for Fayette TV. In addition, each student will be free to pursue his/her own creative video ventures.

MUSIC ELECTIVES

FACULTY

Joe Andria

Charles Durso

PIANO	SEMESTER	GRADE 9, 10, 11, 12	.5 CREDIT
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Description: Students will learn to play the piano (keyboard). A method for adult learners is used to teach students the basic skills needed to become proficient at reading music and playing the instrument. Students are required to show continued progress in the class while working at an individual pace. Grades are determined by participation and weekly/biweekly individual assessments. Students will also occasionally perform for their peers.

BAND	FULL YEAR	GRADE 9, 10, 11, 12	1.0 CREDIT
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Description: The student must show an interest in instrumental music and perform as a member of the band. Grading is by attendance with several performances throughout the school year. The student must attend all rehearsals and performances. Performances include; parades, concerts, pep rallies and football games.

1. Students must attend band camp (held before school starts in the summer) in order to enroll in band.
2. Drumline is by audition only due to a limited number of positions.
3. Band auxiliary is by audition held in the spring of the previous school year.
4. A limited number of school instruments are available for students use. See the band director for more specific information.

CHORUS	FULL YEAR/SEMESTER	GRADE 9, 10, 11, 12	1.0/.5 CREDIT
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Description: Chorus is open to all young men and women who have the desire to sing; no audition required. Daily rehearsals include: 1. warm-ups that focus on healthy vocal technique 2. Sight-reading techniques 3. Singing choral arrangements that vary in style, genre, and language. The ability to read music and sing on pitch are preferred but not required. Students enrolled are required to perform at several events throughout the academic year. Grades are determined by: 1. Daily attendance and participation. 2. Individual growth as a singer. 3. Attendance at required performances.

VOICE CLASS I	SEMESTER	GRADE 10, 11, 12	.5 CREDIT
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Prerequisite: None

Description: Voice Class is designed to prepare students to perform as a soloist. Students will develop their solo singing voice through: extensive vocal exercises, study of basic vocal techniques, mastery of basic written and aural theory skills, an introduction to vocal anatomy, and learning and performing vocal solos from various genres. Grades are determined by daily attendance, participation, projects, and performances. Students enrolled are required to perform as a soloist for their peers.

GUITAR	SEMESTER	GRADE 9, 10, 11, 12	.5 CREDIT
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Description: The class is designed to help students develop knowledge in guitar, including but not limited to performing, guitar history, culture, various styles and genres of music, theory, and technique. This class will build and enhance the playing levels and proficiency of students. Students will learn to read individual notes, chords, tabs, and scales. The class is limited to 12 with preference given to upper-class students.

CHOIR	FULL YEAR/SEMESTER	GRADE 10, 11, 12	1.0/.5 CREDIT
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Prerequisite: Audition with instructor prior to class admission

Description: Choir is the advanced choral ensemble at AGHS. Students should have previous choral experience and basic musicianship skills. Students enrolled in Choir will perform advanced choral repertoire which varies in style, genre, and language; students will also learn advanced vocal techniques. Grades are determined by daily attendance and participation, individual growth as a singer, and attendance at required performances. An audition with the instructor is required prior to admission.

INTRODUCTION TO MUSIC THEORY	SEMESTER	GRADE 10, 11, 12	.5 CREDIT
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Description: This course will offer students an understanding of the inner workings of music. Students will explore the concepts that drive written music in a variety of genres, and learn the skills required to create music of their own. Students will also develop their skills as music listeners through ear training and aural dictation. The skills and knowledge gained in this course will benefit any musician at any level. The curriculum for this course will draw from 'The Alfreds Essentials of Music Theory' workbook.

Voice II	SEMESTER	GRADE 10, 11, 12	.5 CREDIT
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Prerequisite: Successful completion of Voice I.

Description: Voice Class II serves as an extension of Voice Class I and builds upon singing fundamentals, concepts and techniques. Students will develop their solo singing voice through 1) extensive vocal exercises, 2) study of advanced vocal techniques, 3) mastery of basic written and aural theory skills, 4) learning and performing advanced vocal solos from various genres. Grades are determined by daily attendance, participation, projects, and performances. Students enrolled are expected to perform as a soloist for their peers several times within each grading period.

MISCELLANEOUS ELECTIVES

FACULTY

Karla Lent

Barb Harmon, Sergeant First Class

Wayne Sodowsky, Lieutenant Colonel

Melinda Courie

FOODS	SEMESTER	GRADE 11, 12	.5 CREDIT
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Description: Foods will introduce the kitchen to students, examining their skills with equipment, measuring and preparation techniques, safety and sanitation rules, and basic nutrition. Students will study food guide systems in detail and will conduct food laboratories from each food group that can be completed in less than 40 minutes.

Classroom activities include lectures, videos, food laboratories and assessments.

DRIVERS THEORY	SEMESTER	GRADE 11, 12	.5 CREDIT
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Description: The classroom instruction of the Pennsylvania approved Drivers Theory Course is presented.

ARMY JROTC – LET 1	FULL YEAR /SEMESTER	GRADE 9, 10, 11, 12	1.0 / .5 CREDIT
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Prerequisites: None *Note: Semester class for LET 1 is only offered first semester.*

Description: Leadership Education and Training (LET 1). JROTC is designed to teach high school students the value of citizenship, leadership, personal responsibility, and a sense of accomplishment, while instilling in them self-esteem, teamwork, and self-discipline. This course is open to all freshmen and first-year cadets regardless of academic level. This is the introductory course for the JROTC Program. This curriculum prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. Meanwhile, the program is a stimulus for promoting graduation from high school, while providing instruction and rewarding opportunities that benefit the student, community, and nation. The primary mission of JROTC is "To motivate young people to be better citizens."

Study leadership theory and application, foundation for success, communication/study skills, citizenship, military customs and courtesies, physical training, drill, map reading, and the history and objective of JROTC. Extracurricular activities available: Drill Team, Exhibition Drill Team, Marksmanship Team, Raider Team, Orienteering Team, Academic Team, Leadership Team, Saber Team, and Color Guard.

ARMY JROTC – LET 2	FULL YEAR /SEMESTER	GRADE 10, 11, 12	1.0 / .5 CREDIT
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Prerequisites: ARMY JROTC - LET 1

Description: Leadership Education and Training (LET 2). This is the second course for the JROTC Program. The purpose of this course is to enhance the basic skills that students learned in LET 1 and to help motivate them to become better citizens and leaders. Leadership skills are emphasized in all instructional areas of the JROTC program. Students are placed in leadership roles that enable them to demonstrate an understanding of basic leadership principles, values and attributes. Leadership Education and Training (LET) 2 enhances individual skills, followership, team work and citizenship while further developing and promoting leadership skills.

Study of wellness, fitness and first aid, drug awareness, ethical values and principals of good citizenship in American history and government. Demonstrate knowledge of drill, map reading and physical training, with emphasis on methods of instruction. Extracurricular activities available: Member of Battalion Staff, Drill Team, Exhibition Drill Team, Marksmanship Team, Raider Team, Orienteering Team, Academic Team, Leadership Team, Saber Team, and Color Guard.

ARMY JROTC – LET 3 FULL YEAR /SEMESTER GRADE 11, 12 1.0 / .5 CREDIT

Prerequisites: ARMY JROTC – LET 2

Description: Leadership Education and Training (LET 3). This is the third course for the JROTC Program. This course involves the student more as a leader, teacher and mentor within the battalion. This course further enhances the skills that students learned in LET 1 and LET 2. This course of instruction emphasizes the cadet as a problem solver, planner and leader. Basic command and staff principles are introduced to provide an overview of organizational roles and responsibilities. Leadership strategies, managing conflict, leading others, planning and communications skills are evaluated to improve organizational effectiveness. Leadership Education and Training (LET) 3 enhances individual skills, followership, team work and citizenship while further developing and promoting leadership skills.

Study of leadership strategies, foundation of success, managing conflict, career planning, financial planning, citizenship in American history and government with continued practical work in leadership, drill, technology awareness, and methods of instruction, map reading and physical training. Extracurricular activities available: Member of Battalion Staff, Drill Team, Exhibition Drill Team, Marksmanship Team, Raider Team, Orienteering Team, Academic Team, Leadership Team, Saber Team, and Color Guard.

ARMY JROTC – LET 4 FULL YEAR /SEMESTER GRADE 12 1.0 / .5 CREDIT

Prerequisites: ARMY JROTC – LET 3

Description: Leadership Education and Training (LET 4). This is the fourth course for the JROTC Program. Cadets in this course will have the responsibilities of a leader, role model, mentor, and teacher within the battalion. These students must be able to apply their previously acquired knowledge of techniques of communication, leadership skills and general military bearing to a level that they can adequately execute their duties and responsibilities as an assistant to the instructor. These students are afforded a unique opportunity to improve their leadership abilities/skills, mentoring skills, and problem solving capabilities through an in-depth study of leadership and citizenship. This entire course of instruction emphasizes the cadet's ability to perform as a problem solver, mentor, teacher and most importantly, the ability to perform as a leader in all aspects of the program.

Study service to the Nation and financial planning, with continued practical work in drill, technology awareness, career planning, physical training and command and staff principles. Extracurricular activities available: Member of Battalion Staff, Drill Team, Exhibition Drill Team, Marksmanship Team, Raider Team, Orienteering Team, Saber Team, and Color Guard.

HONORS ARMY JROTC – LET 1	FULL YEAR /SEMESTER	GRADE 10, 11, 12	1.0 / .5 CREDIT
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Prerequisites: Must be in grade 10, 11 or 12 Overall GPA of 3.0; Completion of ARMY JROTC – LET 1 First Semester with a GPA of 3.5 or higher and the assignment of a cadet leadership position; Approval of Senior Army Instructor

Note: Semester class for LET 1 is only offered first semester.

Description: Honors Leadership Education and Training (LET 1). The honors course includes all the concept/content of the non-honors course description plus the following requirements and skills mastery. This course stresses the use of complex thinking skills in diverse situations so that they can demonstrate a variety of thinking processes, integrate new information with existing knowledge, and apply thinking skills appropriately. Cadets must demonstrate high competency in writing, speaking, and listening skills. Cadets will serve in a variety of leadership roles, facilitate groups, and respond to complex interrelationships. Cadets will demonstrate leadership and help lead service learning activities that promote the public good. Cadets will complete individual/group performance assessment projects in leadership, citizenship, career planning and technology. Course content will include the study of selected JROTC electives to support and reinforce specific subjects. Honors Leadership Education and Training (LET) 2 enhance individual skills, followership, team work and citizenship while further developing and promoting leadership skills.

HONORS ARMY JROTC – LET 2	FULL YEAR /SEMESTER	GRADE 10, 11, 12	1.0 / .5 CREDIT
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Prerequisites: Overall GPA of 3.0; completion of ARMY JROTC – LET 1 with a GPA of 3.5 or higher and the assignment of a cadet leadership position; Approval of Senior Army Instructor

Description: Honors Leadership Education and Training (LET 2). The honors course includes all the concept/content of the non-honors course description plus the following requirements and skills mastery. Cadets are provided opportunities to demonstrate their leadership potential in a platoon/company leadership position. This course stresses the use of complex thinking skills in diverse situations so that they can demonstrate a variety of thinking processes, integrate new information with existing knowledge, and apply thinking skills appropriately. Cadets must demonstrate high competency in writing, speaking, and listening skills. Cadets will serve in a variety of leadership roles, facilitate groups, and respond to complex interrelationships. Cadets will demonstrate leadership and help lead service learning activities that promote the public good. Cadets will complete individual/group performance assessment projects in leadership, citizenship, career planning and technology. Course content will include the study of selected JROTC electives to support and reinforce specific subjects. Honors Leadership Education and Training (LET) 2 enhance individual skills, followership, team work and citizenship while further developing and promoting leadership skills.

Study of wellness, fitness and first aid, drug awareness, ethical values and principals of good citizenship in American history and government. Demonstrate knowledge of drill, map reading and physical training, with emphasis on methods of instruction. Extracurricular activities available: Member of

Battalion Staff, Drill Team, Exhibition Drill Team, Marksmanship Team, Raider Team, Orienteering Team, Academic Team, Leadership Team, Saber Team, and Color Guard.

This hands-on experience affords students the opportunity to apply leadership and management skills learned in previous JROTC courses. Students are assigned a specific area of responsibility, taught how to perform and manage their duties, and conduct the planning, decision-making, coordination, control and execution of cadet activities during the school year. Students are required to use their personal leadership, organizational, communication, and personal interaction skills in the performance of their duties. Students are also expected to: occasionally be available at times in excess of daily class (i.e. before/after school, weekend trips/activities, etc.), maintain passing grades in other courses/subject areas, maintain a superior discipline record, and have an above average record in JROTC courses and extracurricular program activities.

HONORS ARMY JROTC – LET 3 FULL YEAR /SEMESTER GRADE 11, 12 1.0 / .5 CREDIT

Prerequisites: Overall GPA of 3.0; completion of ARMY JROTC – LET 2 with a GPA of 3.5 or higher and the assignment of a cadet leadership position; Approval of Senior Army Instructor

Description: Honors Leadership Education and Training (LET 3). The honors course includes all the concept/content of the non-honors course description plus the following requirements and skills mastery. Cadets are provided opportunities to demonstrate their leadership potential in a company leadership position or battalion staff position. They will serve as cadet leaders, peer instructors, peer coaches, and peer mentors within the cadet battalion. Leadership concepts of problem solving, decision-making, planning, and supervising will be explored and demonstrated by the cadets. Cadets will demonstrate a high proficiency in teaching basic skills to junior cadets. Additional study and research of leadership responsibilities is required. Cadets will demonstrate a high mastery of oral and written communications. Students will assist with preparing briefings for the annual inspections. As part of this assignment cadets must be prepared to lead meetings, investigate and research ideas, write and present the school improvement and or service learning brief to all cadets and the brigade inspection team. Additional skills mastery required in: extemporaneous speaking, Course content will include the study of selected JROTC electives to support and reinforce specific subjects. This entire course of instruction emphasizes the cadet's ability to perform as a problem solver, mentor, teacher and most importantly, the ability to perform as a leader in all aspects of the program.

Study of leadership strategies, foundation of success, managing conflict, career planning, financial planning, citizenship in American history and government with continued practical work in leadership, drill, technology awareness, and methods of instruction, map reading and physical training.

Extracurricular activities available: Member of Battalion Staff, Drill Team, Exhibition Drill Team, Marksmanship Team, Raider Team, Orienteering Team, Academic Team, Leadership Team, Saber Team, and Color Guard.

HONORS ARMY JROTC – LET 4 FULL YEAR /SEMESTER GRADE 12 1.0 / .5 CREDIT

Prerequisites: Overall GPA of 3.0; completion of ARMY JROTC – LET 3 with a GPA of 3.5 or higher and the assignment of a cadet leadership position; Approval of Senior Army Instructor

Description: Honors Leadership Education and Training (LET 4). The honors course includes all the concept/content of the non-honors course description plus the following requirements and skills mastery. Cadets are provided opportunities to demonstrate their leadership potential in a battalion command or staff position; deliver instruction; model responsible behavior as a mentor; build cross-cultural relationships; and lead service learning projects on school/community issues. Additional study and research of leadership responsibilities is required. Cadets will demonstrate a high mastery of oral and written communications. Students will assist with preparing briefings for the annual inspections. As part of this assignment cadets must be prepared to lead meetings, investigate and research ideas, write and present the school improvement and or service learning brief to all cadets and the brigade inspection team. Additional skills mastery required in: extemporaneous speaking, Course content will include the study of selected JROTC electives to support and reinforce specific subjects. This entire course of instruction emphasizes the cadet's ability to perform as a problem solver, mentor, teacher and most importantly, the ability to perform as a leader in all aspects of the program.

Study service to the Nation and financial planning, with continued practical work in drill, technology awareness, career planning, physical training and command and staff principles. Extracurricular activities available: Member of Battalion Staff, Drill Team, Exhibition Drill Team, Marksmanship Team, Raider Team, Orienteering Team, Saber Team, and Color Guard.

EDUCATION OF EXCEPTIONAL CHILDREN

FACULTY

Lianna Addis
Kathleen Jose
Karen Pegg
Courtney Swenglish

Nicole Caringola
Darlene Ketter
Jared Plisko
Kristie Wade

Shea Fleenor
Marsha McMinn
Megan Smiley

COURSE TITLE: Learning Support, Emotional Support, and Life Skills Support Programs

Description: Resource rooms are provided for students identified as having a learning disability or those experiencing emotional distress.

Special education teachers instruct students in specific subject areas.

The student's Individual Education Program determines class placement. Students are identified for these programs through a formal psychological testing process. Placement decisions are reviewed on a regular basis through the MDT re-evaluation procedure.

COURSES OFFERED
ALBERT GALLATIN AREA SCHOOL DISTRICT
AT FAYETTE COUNTY CAREER AND TECHNICAL INSTITUTE

DAY SCHOOL PROGRAMS

AGRICULTURE

Students learn the anatomy, physiology, and wellbeing of farm animals and companion animal breeds. This course will incorporate plants, greenhouse, soil science, and Ag mechanization as well as plant cultivation and soil conservation. Certification: Pesticide Applicator License

AUTOMOTIVE MECHANICS

Students learn engine performance, electrical/electronic systems, suspension, steering, and engine repair. Certification: ASE & NATEF (coming soon)

AUTO BODY

Students learn restoration replacement, detailing to frame straightening. Students learn to safely and accurately use metals, plastic, lacquer, urethane, and enamel. Certification: I-Car

BUILDING TRADES OCCUPATIONS

Students learn the basic skills for carpentry, electricity, roofing, drywall, painting and finishing, site layout, concrete flatwork and plumbing. Certification: NCCER

COMMERCIAL ART & DESIGN

Students learn advertising and design, print production, screen printing, desktop publishing, computer graphics, airbrushing, heat press transfers, Adobe Photoshop CS2, Illustrator CS3, InDesign CS3, and computerized vinyl graphics. Certification: Printed

COSMETOLOGY

Students complete the hours and master skills to sit for the State Board of Cosmetology exams for cosmetologists, teacher, or manicurist. Certification: State Board of Cosmetology Certified Program

CULINARY ARTS

Students order, plan, prepare, and serve meals from breakfast to dinner. All aspects of the industry are explored. Certification: ServSafe

DIESEL MECHANICS

Students learn the repair and adjustment of engine components, lubrication, coolant, fuel injection, electrical system, auxiliary and accompanying powers, unit controls and transmission. Certification: ASE & NATEF (coming soon)

ELECTRICAL CONSTRUCTION

Students learn about commercial and residential wiring. Opportunities for the future include wiremen, maintenance electrician, utility lineman, appliance service person, meter repair, cable installer, self-employment, and military. Certification: NCCER

HEALTH OCCUPATIONS

Students learn first aid, CPR, infection control, medical terminology, anatomy, home health aide, medical assistant, nurse aide, and biotechnology. Clinical training provided at local health facilities. Certification: C.N.A., CPR

HEATING, VENTILATION AND AIR CONDITIONING (HVAC)

The HVAC program is a competency based program which provides opportunities to those interested in refrigerant handlers, designing, selling, manufacturing, installing, and servicing its equipment. Certification: NCCER, EPA 608

INFORMATION TECHNOLOGY

Information Technology is designed to introduce students to the computer systems and software most commonly used by business. Instruction and hands-on training is provided in all aspects of computers including building, repair, and maintenance. Quality learning materials are used to master the fundamentals of PC maintenance, networking, and security are incorporated into the program. Certification: IC3, A+

MACHINE TOOL TECHNOLOGY

Students learn to operate various types of metalworking equipment and use precision measuring instruments to manufacture parts. The shop consists of manual machinery and Computer Numerically Controlled Machines, accompanying powers, unit controls, and transmission. Certification: NIMS

MASONRY

Students lay brick, block, ceramic tile, stone, and marble to precise and accurate dimensions in a time-efficient manner. Students also learn about pouring footers, and placing concrete. Certification: NCCER

WELDING

GMAW (Mig) and GTAW (Tig) welding are practiced to American Welding Society (AWS) specifications. Also covered are blueprint reading, brazing, cutting, and welding. Certification: NCCER, ASME, AWS

COOPERATIVE EDUCATION

Cooperative Education combines classroom study with planned and supervised vocational experience in selected employment assignments. Cooperative Education also provides the employers in the community with responsible students who can be trained and skilled to meet the companies' desires and interests.