

Hanover Area
Jr/Sr High School
2011-2012
Course Descriptions

Reading & Language Arts

0731 Developmental Reading 7

This course is based upon the PA Academic Standards for Reading, Writing, Speaking, & Listening. Focus of this course is upon PA Standards in order for students to obtain required state proficiency levels and to develop and refine content area reading strategies for use across the curriculum. The core reading program provides balanced instruction in both curricular and recreational reading.

0824 Developmental Reading 8

This course is an extension of Developmental Reading 7 with emphasis on content area literacy skills.

0981 Reading- Grades 7 & 8

0983 Reading/Language Arts- Grades 9 & 10

0984 Reading/Language Arts- Grades 11 & 12

These courses are designed for the student who may have identified reading deficiencies. Emphasis will be placed on specific reading techniques which will best suit the individual. The curriculum includes word recognition, vocabulary development, and comprehension skills. Students will use materials suited to their independent and instructional levels.

0720 English 7

This course is designed to help students develop a better understanding and command of the English language by pacing an intense focus on the development of grammar skills, mechanics, and usage. Students will be introduced to oral presentations and will also write a research paper written in MLA format. This course addresses the Pennsylvania Academic Standards for Reading, Writing, Speaking, and Listening.

0820 English 8

English 8 is a course based upon the Pennsylvania Academic Standards for Reading, Writing, Speaking, & Listening, which builds on the understanding and command of the English language by reinforcing grammar skills, mechanics and usage. This course emphasizes grammar with an intense focus on the writing process. It also includes the study of more advanced literary works including selected novels, dramas, poems, and short stories.

1007-1008 English- Grades 7 & 8

1009-1010 English- Grades 9 & 10

1011-1012 English- Grades 11 & 12

These courses are designed for students who are experiencing difficulty in language skills at each grade level. Students will develop a better understanding and command of the English language through instruction in the basics of language, composition, and literature. The course content is adapted to meet the individual needs of the student.

* Students must meet specific prerequisites to enroll in this course.

0110 Honors English 9*

Prerequisite: Recommendation of previous English teacher, a grade of 92 or above, Advanced Scores on Grade 8 PSSA Reading & Writing, and/or consistent Advanced

scores on Grade 8 Reading 4Sight Benchmark Assessments.

This course designed for the academically talented, and emphasizes composition and critical reading skills. Students improve their language abilities through the writing process in conjunction with analysis and response to appropriate literary selections. Completion of a research paper written in MLA format is a requirement. This course addresses the PA Academic Standards for Reading, Writing, Speaking, & Listening.

0120 English 9

This course is required of all 9th grade students not enrolled in Honors English 9. Grammar, mechanics, usage, and composition skills are reinforced through various writing assignments. Literature study in the various genres and the completion of a research paper written in MLA format is a requirement. This course addresses the PA Academic Standards for Reading, Writing, Speaking, & Listening.

0210 American Literature -Grade 10

This course is designed for college prep sophomore students and those who are language and literature oriented. A chronological study of American literature from earliest times to the present, including the writings of Native Americans is the focus of this course. Students will continue to refine writing (including grammar and mechanics) abilities through response and analysis of the literature studied in this course. A research paper written in MLA format is required. This course addresses the PA Academic Standards for Reading, Writing, Speaking, & Listening.

0215 Honors American Literature-Grade 10*

Prerequisite: Recommendation of previous English teacher, a grade of 92 or above, Advanced Scores on Grade 8 PSSA Reading & Writing, and/or consistent Advanced scores on Grade 9 Reading 4Sight Benchmark Assessments.

In this course of study of American authors, students will continue to refine reading and writing (including grammar and mechanics) abilities through writing assignments which involve analysis, critique and expression of the literature studied in this course. A research paper written in MLA format is a requirement. This course addresses the PA Academic Standards for Reading, Writing, Speaking, & Listening.

0220 English 10

This course reinforces fundamental grammar, usage, and the study of mechanics while providing additional focus on the various literary genres. Students in this course are required to complete writing assignments and build presentation/communication skills. This course addresses the PA Academic Standards for Reading, Writing, Speaking, & Listening.

0321 College Reading & Study Skills-Grade 10

The purpose of this course is to enhance study skills, improve comprehension, augment vocabulary, and to introduce the student to the verbal section of the SAT. This course includes time management, SQ3R study strategy, note-taking methods, test taking tips, college selection tips, and a variety of readings.

* Students must meet specific prerequisites to enroll in this course.

0315 Honors English Literature-Grade 11*

Prerequisite: Recommendation of previous English teacher, a grade of 92 or above, Advanced Scores on Grade 8 PSSA Reading & Writing, and/or consistent Advanced scores on Grade 10 Reading 4Sight Benchmark Assessments.

This course presents English literature in a chronological and historical context from the Anglo-Saxon period to the present. It enables students to gain an understanding of both the historical background of the times and the great literary works which originated from them. It encourages students to read critically and respond logically so that they become active readers, thus gaining a greater appreciation and understanding of English literature. Students will continue to refine writing (including grammar and mechanics) abilities through response and analysis of the literature studied in this course. A research paper written in MLA format is required for the completion of this course. This course addresses the PA Academic Standards for Reading, Writing, Speaking, & Listening.

0410 English Literature-Grade 11

This course presents a complete chronological study of the literature of Great Britain. Literary concepts, writers' techniques, and appropriate response to literature is the focus of this course. Students will continue to refine writing (including grammar and mechanics) abilities through response and analysis of the literature studied in this course. A research paper written in MLA format is required for the completion of this course. This course addresses the PA Academic Standards for Reading, Writing, Speaking, & Listening.

0320 English 11

Students in this course are expected to master skills in grammar, usage, and mechanics while improving on verbal and written communication skills. One quarter of the year is devoted to the study of English Literature and contemporary authors. Students will learn the elements of various genres. Completion of a research paper written in MLA format is a requirement. This course addresses the PA Academic Standards for Reading, Writing, Speaking, & Listening.

0324 College Language Skills-Grade 11

This course focuses on written language and effective speech communication necessary for a successful college experience. This course addresses the PA Academic Standards for Reading, Writing, Speaking, & Listening.

0420 English 12

This basic course consists of two quarters of basic grammar and usage study, and two quarters of literature from the earliest voices to modern times. Students learn the elements of various genres and are required to prepare speeches periodically throughout the course. This course addresses the PA Academic Standards for Reading, Writing, Speaking, & Listening.

* Students must meet specific prerequisites to enroll in this course.

0424 Creative Writing-Grade 12

Students in this course will write and edit a number of works that lend themselves to

developing skills and creativity. Students write poetry, fiction, personal essays, and other forms appropriate to their level of growth. Students also learn technology skills to assist them in developing as writers. This course addresses the PA Academic Standards for Reading, Writing, Speaking, & Listening.

0415 AP World Literature-Grade 12*

Prerequisite: Recommendation of previous English teacher, a grade of 92 or above, Advanced Scores on Grade 11 PSSA Reading & Writing, and/or consistent Advanced scores on Grade 11 Reading 4Sight Benchmark Assessments.

This course offers students the opportunity to explore in depth literature with emphasis on the development of composition skills. Students learn critical skills in reading and writing, along with various methods of engaging literary texts imaginatively. Student in this course are offered the opportunity to prepare for the Advanced Placement Test. Various genres are represented in this course and students learn techniques and ideas of famous authors. Students will continue to refine writing (including grammar and mechanics) abilities through response and analysis of the literature studied in this course. This course addresses the PA Academic Standards for Reading, Writing, Speaking, and Listening.

0421 World Literature-Grade 12

Prerequisite: Students must attain an English grade of 85 or above.

This course covers selections from the literature of major civilizations of the Eastern and Western worlds. Emphasis in the course is on the development of critical reading and thinking skills, composition fluency and knowledge of the techniques and ideas of diverse literatures and people. Students will continue to refine writing (including grammar and mechanics) abilities through response and analysis of the literature studied in this course. This course addresses the PA Academic Standards for Reading, Writing, Speaking, and Listening.

0325 Desktop Publishing I - Grades 11-12

This hands-on course is an introduction to Desktop Publishing that will present methods of layout, construction, and verbal accuracy of booklets (The Hawk's Eye). Creative design will incorporate development of flyers, brochures, and cards. This course will involve using an Apple desktop computer, laser printer, and digital camera provided by the student. It will employ the reiteration of basic computer graphic techniques along with techniques incorporated in Apple's iWork Pages. This course will manipulate graphics and language to effectively communicate the message to the audience.

0425 Desktop Publishing II - Grade 12

This hands-on course requires the prerequisite of either Desktop Publishing I or an editorial position on Yearbook. It will incorporate the construction of current school-based newsletters (Hawkeye Highlights) and assigned sports teams or clubs monthly updates. The course will involve using an Apple Desktop Computer, printer, and digital camera provided by the student. It will employ advanced computer graphic techniques using Apple's iWork Pages and the Internet for accurate research, and it will reiterate and enhance editing skills by accepting responsibility for editing The Hawk's Eye.

* Students must meet specific prerequisites to enroll in this course.

0985 Study Skills- Grades 11 & 12

This course is designed to perfect skills necessary for success across all content areas. Adaptation, organization, and directional skills are taught, as are techniques in note-taking,

memory enhancement, and long term retention. The course offers an individual curriculum for senior high students in order to help with completion of senior project.

0986 Study Skills- Grades 7-10

This course is designed to perfect skills necessary for success across all content areas. Adaptation, organization, and directional skills are taught, as are techniques in note-taking, memory enhancement, and long term retention. The course offers an individual curriculum for junior and senior high students.

0450 Yearbook- Grades 9-12

Yearbook is an elective course that offers a pass/fail quarterly grade and is open to students in grades 9-12. It meets a minimum of one period per week during the school year and requires a commitment to work beyond the normal school day. Students learn all aspects of the production of yearbook including journalism, photography, layout and design, advertising, sales, and marketing.

Foreign Language

1120 French I- Grade 9- 12

This course introduces basic phrases, vocabulary, and grammatical structures of the French Language. Students practice basic listening, speaking, reading and writing skills in French as well as learn about various cultural topics.

1123 Spanish I- Grade 9-12

This course introduces basic phrases, vocabulary, and grammatical structures of the Spanish Language. Students practice basic listening, speaking, reading and writing skills in Spanish as well as learn about various cultural topics.

1220 French II- Grade 10-12

1223 Spanish II- Grade 10-12

In this course, students continue to build and expand vocabulary, knowledge of basic grammatical structures, verb tenses, and fluency. Students are expected to practice listening, speaking, reading, and writing skills daily, along with learning about various cultural topics.

1320 French & Spanish III- Grade 11 & 12

1323 Prerequisite: 88 average or teacher recommendation in French/Spanish II

Students progress to levels of competency beyond those achieved in levels I and II. Emphasis is on the further refinement of understanding, speaking, reading, and writing in the foreign language. The course includes grammar review, additional verb tenses and increased vocabulary development.

* Students must meet specific prerequisites to enroll in this course.

1420/ French & Spanish IV- Grade 12

1423 A functional course in speaking, reading, writing, additional vocabulary building and the basic elements of literary appreciation. Courses will also explore the culture and

history of several French/Spanish speaking countries.

Social Studies

2730 World Cultures I & Geography- Grade 7

This course is designed for students to understand the relationships between World Cultures of the past and today. It will examine the Beginnings of Human Society, Ancient Egypt, Greece, and Rome. Special emphasis will be placed on the foundations of geography as students focus on the basic tools and concepts of geography. A project and presentation is required for this course.

2830 World Cultures II-Grade 8

This course serves as a continuation of World Cultures I. It is designed for students to learn more of the interrelations between the world cultures of yesterday and today, and the intercultural connections of societies worldwide. This course examines the Byzantine Empire, Ancient American Cultures, the Renaissance and Reformation, European exploration and expansion, revolutions and empires and our modern world today. A project and presentation are required for this course.

2112 American Cultures I (CP)- Grade 9

Prerequisite: 88 average in History

American Cultures I offers the student a chance to explore in detail, the history of the United States from the time of the Native Americans to the Civil War. Students are expected to complete individual research assignments as well as special projects. Emphasis is placed upon developing the ability to think critically and to draw logical conclusions.

2132 American Cultures I- Grade 9

American Culture I is the study of important people, events, and documents in the history of the American Nation. The course begins with an overview of the society, culture, and influence of the Native Americans. Major topic areas include Colonial America, the American Revolution, the Formation of our Government, the War of 1812, Jacksonian Democracy, Westward Expansion, and the Civil War. Students are led step by step to an awareness of the growth of the United States from its inception to the 1860's.

2212 American Culture II (CP)- Grade 10

Prerequisite: 88 average in American Cultures I

American Culture II offers the student a chance to explore in detail, the history of the United States from the time of Reconstruction to the present. Students are expected to complete individual research assignments as well as special projects. Emphasis is placed on developing the ability to think critically and to draw logical conclusions.

* Students must meet specific prerequisites to enroll in this course.

2232 American Cultures II- Grade 10

Prerequisite: American Cultures I

The course serves as a continuation to American Culture I. Beginning with the Reconstruction Era, it includes the study of important people, events, and documents found under such major topic areas as the Industrial Revolution and the Cold War. American Culture II focuses on changing American domestic and foreign policies from the 1860's to the present.

2312 Government & Economics (CP)- Grade 11

This course is designed to give students an in-depth look at politics and government and to increase their knowledge of their present and future roles as active citizens within American Society. Students will examine the history and foundation of our federal government and explore the differences between federal, state, and local government levels. The foundations of economics and the government's role in the economy will also be examined. Incorporated with the lessons are simulations and decision-making activities based on current happenings throughout our nation.

2330 Government & Economics - Grade 11

This course is designed to give students an in-depth look at politics and government and to increase their knowledge of their present and future roles as active citizens within American Society. Students will examine the history and foundation of our federal government and explore the differences between federal, state, and local government levels. The foundations of economics and the government's role in the economy will also be examined. Incorporated with the lessons are simulations and decision-making activities based on current happenings throughout our nation.

2332 American Modern History- Grade 12

This course is designed to give students an in-depth understanding of historical events that have shaped American society since World War II. The course will examine the Cold War, the Korean and Vietnam Wars and other historically significant events and their effects on American government and society. It will give students an understanding of America's political system and international relations with European, and Mid-Eastern and Far-Eastern nations from World War II to present. Research projects and presentations are requirements for this course.

2422 Psychology- Grades 11 & 12

This course is designed with several broad purposes in mind. First, it attempts to resolve the every day problems that exist in human development. Second, it considers the areas involved in the relationships man has with others; and third, it explains and illustrates the significance of psychological findings that pertain to proper mental health and the individual's own sense of self accomplishment. Students will study major fields of psychology and psychologists.

* Students must meet specific prerequisites to enroll in this course.

2425 Criminal and Civil Law- Grade 12

The purpose of this course is to provide practical information and problem-solving opportunities that will help students develop the knowledge and skills necessary to survive

in our law-saturated society. This course was developed by the National Institute for Citizen Education in the Law, Georgetown University.

2430 Sociology- Grade 11 & 12

Sociology is the study of man and his activities in the social group. The course examines social structure, social inequality, social institutions, and the changing social world. The course investigates the role of the individual in society. Topics such as deviance, personality development, and the aging process are examined. The course features a multi-media component.

2435 AP U.S. Government and Politics- Grade 12*

Prerequisite: Teacher recommendation and a 94 average in Social Studies.

This course will present students with an analytical perspective on American government and politics. Students will be encouraged to use the knowledge they gain from course concepts as a base for discussion and analysis of political undertakings. This course will cover all of the concepts necessary to gain a full understanding of the workings of government from the framing of the Constitution to the evolution of the various groups and institutions that exist today including the influences of political beliefs and behaviors of individuals on public policy.

2441 Contemporary World Affairs- Grade 12

Prerequisite: 88 average in Social Studies

This particular course is concerned with an in-depth study of events occurring in the political, social, and economic spheres. Special emphasis is placed upon the role of the United States and the changes/adjustments in our foreign policy. The course content is concerned mainly with everyday events. Considerable use is made of periodical literature, Internet, mass media and technology.

2980 Social Studies Grades 7 & 8

2982 Social Studies Grades 9 & 10

2983 Social Studies Grades 11 & 12

The Social Studies curriculum in the learning support program follows the regular education course outline. However, it adapts the curriculum according to the specific needs and learning levels of the student.

2920 Gifted Social Studies

The students will use multimedia technology tools to create projects. The process of designing the projects requires students to synthesize the information they have collected, apply technology skills in the construction process, and evaluate the core elements of the content. They may then enter these projects in interscholastic competitions.

* Students must meet specific prerequisites to enroll in this course.

0735 Internet Research-Grade 7

Students will develop an understanding of the terminology for online searching, conduct

online searches, distinguish between factual and unsubstantiated information on the Internet, evaluate web sites, cite electronic sources using MLA style, and learn basic skills for using email, in the academic setting. PA Academic Standards for Technology, and Career Education and Work are addressed in this course.

Mathematics/Computers

Note: Students are required to earn 1 math credit in grades 7 and/or 8 AND demonstrate proficiency on PSSA Mathematics. Students not obtaining 1 math credit in grades 7 and/or 8 and/or not demonstrating proficiency on PSSA Mathematics may need to successfully complete an approved math summer program and take a district approved assessment.

3722 Mathematics 7

This course is based upon the PA Academic Standards for Mathematics and covers topics required to prepare students for demonstrating proficiency in Mathematics. Calculator use is introduced and students are encouraged to have a scientific calculator.

3822 Honors Mathematics 7*

Prerequisite: Minimum math average in Grade 6 of 92, recommendation of 6th grade math teacher, advanced math scores on the PSSA, and/or consistent advanced scores on 4Sight Benchmark Assessments.

This course is offered to students in grade 7 who demonstrate superior math skills. The course pace is brisk so students must be capable of grasping math concepts rapidly. Calculator use is introduced and students are encouraged to have a scientific calculator.

3121 Honors Algebra I - Grade 8*

Prerequisite: Minimum Math 7 average of 92, Math 7 teacher recommendation, and advanced math scores on PSSA Mathematics, and/or consistent advanced scores on 4Sight Benchmark Assessments.

This course is intended for the student who has the ability to grasp abstract mathematical concepts rapidly. Scientific calculators required.

3825 Pre-Algebra- Grade 8

This course continues and extends the material covered in Mathematics 7 or Honors Mathematics 7. Emphasis is placed on topics necessary to prepare students for proficiency in math. Scientific calculators required.

* Students must meet specific prerequisites to enroll in this course.

3123 Algebra I CP- Grade 9

Prerequisite: Minimum Pre-Algebra average of 80.

This course is offered for those students who have an average or above average ability in

mathematics. Students who plan on attending college should select this class. Scientific calculators required.

3124 Algebra I- Grade 9

This course is offered for those students not met the requirements for Algebra I or Algebra I CP. An emphasis is placed on reinforcing basic skills along with introducing Algebraic concepts. Scientific calculators required.

3221 Honors Algebra II- Grade 9*

Prerequisite: Minimum Honors Algebra I average of 92, recommendation of Honors Algebra I teacher, advanced math scores on the PSSA and/or 4Sight Benchmark Assessment.

This course is intended for students who have the ability to grasp abstract mathematical concepts rapidly. Scientific calculators required.

3220 Integrated Math I- Grade 10

This course is offered for those students who have completed Algebra I. It includes Geometry, Probability, Statistics, Measurement, Number Theory, and Algebra II. This course is designed to prepare students to achieve the required state proficiency levels in mathematics.

3223 Algebra II- Grade 10

Prerequisite: Minimum Algebra I average of 80, proficient or advanced math scores in PSSA Math, and/or 4Sight Benchmark Assessment.

This course is a continuation of Algebra I CP, and/or Algebra I. Students selecting this course need average or above average Math skills. Scientific calculators required.

3231 Honors Geometry-Grade 10*

Prerequisite: Minimum Algebra II average of 92, recommendation of Honors Algebra II teacher, advanced math scores on the PSSA and/or 4Sight Test.

Students in this course must be capable of grasping abstract mathematical concepts rapidly. Scientific calculators required.

3420 Integrated Math II- Grade 11

This course covers various topics in Algebra, Geometry, Probability, Statistics, Measurement, Number Theory, and Trigonometry. Emphasis will be placed on providing skills needed for Proficiency on standardized tests.

* Students must meet specific prerequisites to enroll in this course.

3232 Geometry- Grade 11 & 12

Prerequisite: Minimum Algebra II average of 80, recommendation of Algebra II teacher, proficient or advanced math scores in PSSA Math and/or 4Sight Benchmark

Assessment.

Students selecting this course must have average or above average math skills. Scientific calculators required.

3331 Honors Algebra III & Trigonometry - Grade 11*

Prerequisite: Minimum average in Geometry of 92, recommendation of Honors Geometry teacher, advanced math scores on the PSSA and/or 4Sight Benchmark Assessment.

This course is intended for students who possess the ability to grasp abstract mathematical concepts. Graphing calculators are required.

3332 Algebra III & Trigonometry- Grade 11-12

Prerequisite: Minimum average of 80 in both Algebra II and Geometry, proficient or advanced math scores in the PSSA and/or 4Sight Test.

This course is intended for students whose math skills are average or above average. Scientific calculators required.

3333 Math 12

This course is based upon the PA Academic Standards for Mathematics and covers topics required for students who have not reached proficiency on the PSSA Mathematics Assessment in Grade 11. Students in this course are required to take the PSSA Re-test in Grade 12 and if not proficient, an alternate assessment provided by the district. This course is also required for students who are not in Business, Computer Information, and Technology or College Prep programs of study.

3335 College Statistics- Grade 12

Prerequisite: Minimum Algebra III & Trigonometry or Honors Algebra III & Trigonometry average of 92, recommendation of previous year math teacher, proficient or advanced math scores on the PSSA and/or 4Sight Benchmark Assessment.

This course is equivalent to a one-semester introductory college course. This course is intended for students with superior math skills who consistently perform with a high level of accuracy. Graphing calculators required.

* Students must meet specific prerequisites to enroll in this course.

3413 Calculus- Grade 12

Prerequisite: Algebra III & Trigonometry or Honors Algebra III & Trigonometry, proficient or advanced math scores on the PSSA and/or 4Sight Test.

This course is intended for students whose math skills are above average. The connection

between mathematics and other disciplines will be examined in this course. Graphing calculators required.

3423 Advanced Placement Calculus- Grade 12*

Prerequisite: Minimum Honors Algebra III & Trigonometry average of 92, recommendation of Honors Algebra III & Trigonometry teacher, and advanced math scores on the PSSA and 4 Sight Benchmark Assessment.

This course is intended for students with superior math skills and the ability to grasp abstract mathematical concepts. Students in this course must demonstrate exceptional interest and aptitude in mathematics. Students completing this course in good standing may take the Advanced Placement Test in Calculus. Graphing calculators required.

3140 Intro to Computers - Grade 9

Required by all 9th grade students.

This course provides students with a basic to intermediate understanding of Word, Excel, PowerPoint and the Internet. Students will also learn the basics of common Mac applications, such as iPhoto, iWeb, and Garageband. This course introduces students to the technological resources they may utilize throughout their high school career, college and employment.

6222 Computer Applications I - Grade 10-12

This course will help students develop strong keyboarding skills, gain an understanding of computers and technology, and provide hands-on coursework in the practical application of commonly used software. Emphasis is placed on hands-on activities in word processing, spreadsheets, database, and presentation software. This course will introduce 21st century skills that will prepare students to be successful and competitive in the global marketplace.

3953 Web Design - Grade 12

This course provides a basic to intermediate level of web design. Students will design, build and maintain sites they have build. Students will gain knowledge in principles and practices of the Internet. Students will begin to use HTML/XHTML in building sites. Students will then advance in using CSS and Dreamweaver with site building and management. Fireworks and Flash will be introduced upon successful completion of basic to intermediate level of Dreamweaver. Flash and Fireworks will assist in enhancing and enriching student's sites.

* Students must meet specific prerequisites to enroll in this course.

6425 Career & Employability Skills - Grade 12

***Students must meet specific requirements to enroll in the course.**

This course will improve computer proficiency and develop 21st century skills essential for the workplace. Advanced technology concepts, business communications, and fundamental

workplace skills will be emphasized. Students will create and maintain a professional electronic portfolio and journal using the Bridges software. This course will require students to participate in career related field experiences such as tours of local businesses and job shadowing.

3920 Gifted Mathematics

This offering is intended for those students whose mathematical ability and aptitude are exceptional. Students are involved in individual research, mathematical competitions, and advanced study.

3007-3008 Mathematics- Grades 7 & 8

3009-3010 Mathematics- Grades 9 & 10

3011-3012 Mathematics- Grades 11 & 12

These courses, designed for students who may have identified mathematic deficiencies, provide a consumer and career approach to Mathematics. Students will use materials suited to their independent and instructional levels. PA Academic Standards for Mathematics are covered in these courses.

Science

4720 Science 7

This course based upon the PA Academic Standards for Science, integrates the various branches of science and encompasses a series of modules including earthquakes, volcanoes, rocks, minerals, weathering, erosion, electricity, magnetism, sound, and light.

4830 Science 8

This course based upon the PA Academic Standards for Science, integrates the various branches of science and encompasses a series of modules including oceanography, freshwater, wetlands, weather and climate, astronomy, motion, forces, and energy.

4226 General Biology- Grade 9

This course will investigate the diversity and chemical structure of life, genetics, evolution, technology, and important ecological concepts. It is intended for students interested in a basic understanding of this topic.

* Students must meet specific prerequisites to enroll in this course.

4227 Biology I CP- Grade 9

This challenging course will investigate the diversity and chemical structure of life, genetics, evolution, technology, and important ecological concepts. It will emphasize college study, lab work, notebook, and homework skills.

4228 Honors Biology I- Grade 9*

Prerequisite: Minimum 92 average in Science 7 & 8, Advanced scores on PSSA Science Grade 8, and permission from instructor.

This rigorous course will follow the same course description as Biology I CP with more independent study requirements.

4327 General Science I- Grade 10

This course brings together physics, chemistry, earth science, space science, environmental science, and mathematics. Emphasis is placed on practical applications of basic scientific principles, development of scientific literacy, and an appreciation of the natural world. It will be the first part of a two-year program.

4325 Chemistry I CP- Grade 10

This course is designed to give basic knowledge of the fundamental concepts of Chemistry, the study of the atom and the nature of and changes that occur in matter. Concepts are developed through lectures and experimentation.

4326 Honors Chemistry I- Grade 10*

Prerequisite: Minimum 92 average in both Algebra II and Biology I, Advanced Score on Grade 8 PSSA Science & Math, and permission of instructor.

This course is designed for the advanced student to give basic knowledge of the fundamental concepts of Chemistry. The discovery-based course includes concepts that are developed through cooperative learning and experimentation.

4328 General Science II- Grade 11

This course continues the study of the branches of science investigated in General Science I.

4323 Honors Physics I- Grade 11*

Prerequisite: Minimum 92 average in Biology I CP and Chemistry I CP, Advanced Score on PSSA Science Grade 8, and permission of instructor.

This rigorous course will follow the same course description as Physics I CP at a faster pace with more independent study requirements and mathematical examples.

* Students must meet specific prerequisites to enroll in this course.

4425 Chemistry II- Grades 11 & 12

Prerequisite: Permission of Chemistry I and Algebra II instructors.

This course is a continuation of Chemistry I with emphasis on the mathematical relationships in chemical systems. Analytical laboratory techniques are introduced and

utilized throughout the course. Chemistry II is recommended for those students who are planning careers in science or medical fields.

4324 Physics I CP- Grades 11 & 12

This course is intended for students with strong mathematical problem solving skills who are seeking either information or studies in physics. It will cover the six basic units by which all natural phenomena can be measured. Lectures, demonstrations, and experiments will reinforce the concepts.

4423 Biology II- Grades 11 & 12

Prerequisite: Biology I CP, Chemistry I CP, Physics I CP and permission of instructor.

This is a rigorous course intended for students who are interested in pursuing a career in a medical field or who want to learn more about this topic. After introductory chapters on biochemistry and advanced cell structure, the course focuses on human anatomy and physiology. The skeletal, nervous, cardiovascular, and endocrine systems will be emphasized. Clinical applications and strategies for lifetime wellness will be investigated. The class will emphasize the development of college study, lab, and writing skills.

4424 Physics II- Grade 12

Prerequisite: Physics I CP, Chemistry I CP, or Biology I CP and permission of instructor.

This course is a continuation of Physics I CP for the student who plans to further his/her studies in science or mathematics. Topics covered in this course are electricity, atomic and nuclear physics, wave motion, and optics.

4310 Earth and Space Science- Grade 12

Prerequisite: Minimum of 85 average in Science classes or permission of instructor.

This course teaches the principles and concepts of Astronomy, Geology, Oceanography and Meteorology. In addition to the four main branches of Earth Science, students will be given an understanding of Pennsylvania's local geology and weather. The course is designed around a college-level text in order to both challenge and prepare students for their future studies outside of high school.

* Students must meet specific prerequisites to enroll in this course.

4980 Science-Grades 7 & 8

4982 Science-Grades 9 & 10

4983 Science- Grades 11 & 12

These Science courses are designed to address the different learning styles of each student and is adapted to meet the individual needs of the student. PA Academic Standards for Science & Technology are covered in these courses.

4920 Gifted Science

The Gifted Science Program is designed for those students who qualify for the Gifted Program and have a strong background and interest in science. Students choose a topic of interest from among many possible areas of study, carry out library research, design and carry out their own experiment. Students will also learn basic uses of the computer for word processing, scanning, photography, graphing, and data collection.

Family & Consumer Science

7720 Home Economics 7

This course is designed to introduce seventh grade boys to foods and nutrition, sewing, management and consumerism. Using equipment in both the kitchen and clothing labs will enable students to prepare nutritious foods and complete one hand sewn project and a needlepoint project.

7820 Home Economics 8

This course is designed to introduce 8th grade girls to foods and nutrition, sewing, management and consumerism. Using equipment in both the kitchen and clothing labs will enable students to prepare nutritious foods and complete sewing projects.

7150 Life Skills I -Grade 9

This course is designed to develop an extended knowledge of the skills learned in 7th and 8th grade. Students will plan and prepare balanced meals, explore the risks of fad dieting, evaluate healthful diets and develop skills in organization and time management. New skills in hand sewing techniques will be developed by constructing two hand sewn projects. Students will review choosing a pattern; garment construction and use of the sewing machine by completing one machine-sewn project. This course will also include topics in consumer and home management.

7250 Life Skills II- Grades 11-12

This course is designed to involve the student in menu planning, marketing, preparation and service of meals. The economics and social aspects of food in the home are also involved. Emphasis is placed on imaginative food presentation and nutritional menu planning. In the clothing program the students make their own choice of patterns and material, and construct a sewing project. More imaginative and creative projects are emphasized in the area of crafts. The students will evaluate housing needs and alternatives, renting, buying, budgeting and cost.

* Students must meet specific prerequisites to enroll in this course.

7225 Independent Living- Grades 11-12

This course will build the knowledge, skills attitudes and behaviors students will need as they prepare to successfully cope with life on their own after graduating from high school. The focus is on becoming independent, responsible, and contributing participants in family, community and career settings. Topics include living independently; integration of family, community, and career responsibilities, consumer choices and decision making; using credit wisely; the relationship of technology and environmental issues to families and

individuals and developing communication skills.

7325 Child Development-Grade 12

A course in which students will study child development from prenatal to school age. The physical, emotional, intellectual, and social development of children will be presented in a variety of activities. Students will be offered comprehensive material on agencies and services related to child care.

Technology Education

7729 Introduction to Technology Education- Grade 7 & 8

7829

Three technologies are introduced in this semester course; manufacturing, communications, and transportation. In manufacturing, the students will learn the application of hand tools, measuring, methods of assembling, and the importance of safety while working with wood and metal. In communications, the students will learn the fundamental techniques of mechanical drawing, pattern design and layout, and accurate means of measuring. An exploration of computer aided design will be included. In transportation, the students will learn the basic fundamentals of power technology through experimentations and demonstrations with electricity. An exploration of power sources will be discussed. Rocket power as a source of transportation will be introduced.

7142 Manufacturing I-Grade 9-10

Working with wood materials, the students will learn the historical, theoretical, and practical phases of each area. Bench work, layout and use of both hand and power tools will enable students to develop manipulative skills and shop safety. The emphasis of this program is to provide problem based learning activities and allow for the application of concepts of technology to develop technology literacy. PA Academic Standards for Technology, and Career Education and Work are addressed in this course.

* Students must meet specific prerequisites to enroll in this course.

7242 Manufacturing II-Grade 11-12

Prerequisite: Minimum Manufacturing I grade of 75.

Students will build upon the basic concepts and technological literacy obtained in Manufacturing I. In addition, they will develop the ability to read, interpret, or make drawings and necessary calculations in a variety of manufacturing activities. These will include separating, fitting, fastening, and finishing with the use of hand and power tools. PA Academic Standards for Technology, and Career Education and Work are addressed in this

course.

Fine Arts

5732 Art 7

The seventh grade course is designed to teach basic skills and techniques which will serve as a foundation upon which to build future skills and generate interest in art. The course will include a variety of art experiences including drawing, painting, color and design, printmaking, sculpture and crafts. Art appreciation will be taught as an integral part of the program so as not to isolate concepts and ideas from the act of creation.

5130 Principles of Art I- Grades 9 & 10

The course is designed for the student who wishes to become involved in basic art experience and acquire art skills beyond those learned in Art 7. In this course students experiment with various styles, materials, and methods. Drawing, painting, and a variety of other media is utilized in the creation of crafts. This course provides a foundation for the student who intends to pursue a career in art.

5230 Advanced Art I- Grades 11 & 12

The class will use and build upon the basic elements and principles of art. Students will investigate drawing, painting, sculpting, and mixed media.

5330 Advanced Art II- Grade 12

This course is an independent study of areas in art determined through conferencing with instructor and student. Projects and research are required for this course.

8832 Elements of Music History- Grade 8

A requirement of all eighth grade students, this elemental approach will be used to study the stylistic characteristics of the Baroque, Classical, Romantic, and 20th Century. Contemporary/current/popular musical works will be incorporated and the student will be encouraged to compare popular genres with traditional forms to enhance life relevance.

* Students must meet specific prerequisites to enroll in this course.

8132 Music Appreciation- Grades 11-12

This course will examine and explore the role of music in society and culture throughout history. This course will integrate sources of technology and integrated sources to foster the understanding of music throughout the centuries.

8833 Junior Band-Grade 7 & 8

7th & 8th grade students who play band instruments should sign up for this course. The Junior Band will rehearse after school (2:00 p.m.) one day a week throughout the school year. The students are also encouraged to attend weekly lessons either before school or on Mondays (following a rotating schedule). The Junior Band joins the Senior Band in several performances throughout the year.

8932 Junior Chorus- Grades 7& 8

The course will continue the elementary choral experience. The student will sing 2-3-4 part music. Understanding the unique timbre of the adolescent voice, the junior chorus will be given as many Junior Chorus performance opportunities as possible. All choruses should combine at appropriate times to promote departmental unity.

8956 Senior Band- Grades 9-12

Instrumental students and Senior Band students meet throughout the school year to learn to play a variety of types and styles of music. Various performances are a component of this program and students are required to attend weekly lessons.

8942 Senior Chorus Grades 9-12

The Hanover Area Senior Chorus is performance oriented and at times combine with Elementary/Junior Chorus and Stage Band for select performances. Open to students in grades 9-12, students will be exposed to S-A-T-B music of various styles. Students in grades 10-12 are encouraged to participate in P.M.E.A. festivals.

8957 Music Theory I : Grades 9-12

Music Theory I covers the basics of music theory including clefs, key signatures, circle of fourths and fifths, scales and basic intervals, and simple rhythms.

8958 Music Theory II : Grades 10-12

Music Theory II covers the relative and parallel minors, modes and advanced intervals, and complex rhythms.

8959 Music Theory III : Grades 11-12

Music Theory III covers species I counterpoint, sight singing, dictation, and keyboard harmony.

8960 Music Theory IV : Grades 12

Music Theory IV is an advanced placement course that covers advanced counterpoint and introductory composition.

* Students must meet specific prerequisites to enroll in this course.