

***COURSE
DESCRIPTIONS***

2010-11

***PENNS MANOR
AREA
JR./SR. HIGH
SCHOOL***

This course description book contains a list of courses offered at the Penns Manor Area Jr./Sr. High School. Following each course title is a brief description of the course and prerequisites. Each course is one school year in length and worth one credit unless noted. The courses are grouped by Language Arts, Math, Science, Social Studies, PE/Health, and Electives. The course descriptions will be revised each in year during the month of January.

Students should use the course description book when selecting course for scheduling purposes. Courses should be selected based on the student’s career objective and interest each school year in March for the following school year.

Students may obtain Indiana Career and Technology Center program descriptions from the guidance office.

Any question in regard to a course should be directed to a guidance counselor or a teacher in the department in which the course is taught.

LANGUAGE ARTS.....	PAGE 3
MATH.....	PAGE 14
SCIENCE.....	PAGE 16
SOCIAL STUDIES.....	PAGE 19
PE/HEALTH.....	PAGE 21
ELECTIVES.....	PAGE 23
GUIDANCE.....	PAGE 38

LANGUAGE ARTS

Honors English 7

Grade: 7

Prerequisite: Teacher Referral/completed summer reading

This course is designed as a challenging exploration of literature, writing and grammar. Vocabulary study focuses on words for the college-bound student, and conventional rules of grammar and spelling are stressed. Literature is studied with attention to form and theme, with independent reading and writing required. Additionally, research and critical reading skills are practiced through individual and group projects. One lengthy research project is completed. Pennsylvania language arts standards and assessment anchors are addressed in preparation for the PSSA.

Academic English 7

Grade: 7

Prerequisite: Teacher Referral

Academic English 7 focuses on strengthening students' reading and writing skills. Literature study explores both theme and form through drama, poetry, the novel, myth, fable, and the short story with a focus on personal imaginative interaction with literary works. Some independent reading is required. In addition, conventions of traditional grammar, sentence structure, and paragraph structure are stressed. Speaking, listening, and study skills are reinforced through daily note taking, class discussion, and individual/group presentations. Vocabulary and spelling skills are covered as well. Research and critical analysis skills are also used periodically as they apply to literature study, and a research project is completed to strengthen students' researching skills. Pennsylvania language arts standards and assessment anchors are addressed in preparation for the PSSA.

Applied English 7

Grade: 7

Prerequisite: Teacher Referral

This course gives students practice with speaking, listening, reading and writing. Traditional rules of grammar and spelling are stressed, and there is an emphasis on paragraph and sentence structure. Literature studied covers the forms of poetry, drama, short story, essay, the novel, myth, and fable. Group and individual projects incorporate cooperative learning and research skills. Review and practice addresses the Pennsylvania language arts standards and assessment anchors to prepare students for the PSSA.

Honors English 8

Grade 8

Prerequisite: 85% or higher in Honors English 7 with teacher recommendation
or a 93% or higher in Academic English 7 with teacher recommendation
Summer reading assignment completed

Honors English 8 is designed to further develop skills in oral and written language, as well as skills in listening. Students will complete work and projects that practice these skills.

Correct grammar and spelling will be stressed. One paper or essay will be completed. Literature is taught with attention to character analysis, plot, theme, and other literary elements.

Vocabulary is studied to expand word recognition and develop an awareness of the importance of word choice in writing.

Students will read and respond to literature that the teacher chooses for class and a minimum of four novels that the student chooses for out-of-class reading. There will be a heavy emphasis on independent/guided practice with a limited amount of direct instruction.

All areas of study will be evaluated according to PA state standards.

Academic English 8

Grade: 8

Prerequisite: 85% or higher in Academic English 7 with teacher recommendation
or a 93% or higher in Applied English 7 with teacher recommendation

Credit: 1

Academic English 8 is designed to further develop student skills in oral and written language as well as skills in listening. Students will complete projects which practice these skills.

Vocabulary, grammar and spelling are studied.

Literature is taught with attention to character analysis, plot, theme and other literary elements. Students will read four novels of their choice in addition to class reading assignments.

Guided practice is used along with direct instruction that is aligned with the Pennsylvania State Standards for Language Arts in preparation for the PSSA.

English 8 -Applied

Grade 8

Prerequisite: Applied English 7

Credit Value 1

This course is designed to further develop student skills in oral and written language, as well as skills in listening. Students will complete projects that practice oral, written, and listening skills.

Correct grammar and spelling will be heavily stressed. One paper or essay will be completed.

Literature is taught with attention to character analysis, plot, theme, and literary elements. Students will be tested in these areas per the state standards.

A vocabulary unit is used to help students understand new meanings and how to apply those meanings to sentences, to identify synonyms, and to identify antonyms.

Students will read a minimum of two novels that the teacher chooses and a minimum of 3 novels of the student's choosing. Focus will be on PSSA standards.

The main teaching strategy will be direct instruction.

Honors English 9

Grade: 9

Prerequisites: 80% or higher in Honors English 8 with teacher recommendation or a 90 % or higher in Academic English 8 with teacher recommendation.

Completed summer reading

This course will cover all of the work outlined for Academic 9, and will add independent reading and writing. Students, beginning in the summer, will be expected to read independently and to write various modes of responses to major works of fiction. In addition, extra research assignments will be required of Honors 9 students.

Academic English 9

Grade: 9

Prerequisites: 85% or higher in Academic English 8 with teacher approval or a 93% or higher in Applied English 9 with teacher approval

This course contains five areas of emphasis. First, the student is exposed to practice and reinforcement of language skills previously taught. Second, the sequenced writing programs continues, stressing major modes of writing---narrative, persuasive and expository. Various literary genres are introduced, with emphasis on drama and personal narrative. The research project is introduced, emphasizing library and electronic resources, as well as learning to use primary sources. Throughout all areas of study, proper usage and communication skills are introduced and covered in a prescriptive manner, based on students needs.

Applied English 9

Grade: 9

This course is designed for students who are not in the college-preparation courses, and who need support with basic communication skills. Literary genre and the modes of writing units for grade 9 will be included in the course, but strong emphasis will be

placed on support of basic reading and writing skills. Material reviewed will include skills necessary for proficiency on all mandated assessments.

Honors English 10

Grade: 10

Prerequisite an 85% or higher in Honors English 9 with teacher recommendation;
93% or higher in Academic English 9 with teacher recommendation
Completed summer assignments

The Honors English 10 course is designed to improve students' writing skills through various modes of writing and will be taught and practiced per state standards with an emphasis on preparing students for college writing and real world situations.

Literature is taught with attention to character analysis, plot, theme, and literary elements. The student will be tested in these areas per the state standards.

A vocabulary unit is used to help students understand new meanings and how to apply those meanings to sentences, to identify synonyms, and to identify antonyms. Students will be tested per the state standards.

Students will read independently and identify literary elements, main ideas, and make generalizations.

Students will read and respond to a minimum of three novels that the teacher chooses for class and a minimum of four novels that the student chooses.

Students will read, analyze, and respond to a minimum one Shakespeare play.

There will be a heavy emphasis on independent/guided practice with a limited amount of direct instruction.

Academic English 10

Grade: 10

Prerequisite: an 85% or higher in Academic English 9 with teacher recommendation; 93 % or higher in Applied English 9 with teacher recommendation

The Academic English 10 is designed to improve students' writing skills through various modes of writing and will be taught and practiced per state standards with an emphasis on preparing students for college writing and real world situations.

Literature is taught with attention to character analysis, plot, theme, and literary elements. The student will be tested in these areas per the state standards.

A vocabulary unit is used to help students understand new meanings and how to apply those meanings to sentences, to identify synonyms, and to identify antonyms. Students will be tested per the state standards.

Students will read independently and identify literary elements, main ideas, and make generalizations.

Students will read and respond to a minimum of three novels that the teacher chooses for class and a minimum of four novels that the student chooses.

Students will read, analyze, and respond to a minimum one Shakespeare play.

Instruction will be a combination of guided practice and direct instruction.

English 10—Applied

Grade: 10

Prerequisite: Applied English 9

Credit Value: 1

The English 10 course is designed to improve students' writing skills through development of the writing process. Various modes of writing will be taught and practiced per state standards with an emphasis on preparing students for real world and job situations.

Literature is taught with attention to character analysis, plot, theme, and literary elements. The student will be tested in these areas per the state standards.

A vocabulary unit is used to help students understand new meanings and how to apply those meanings to sentences, to identify synonyms, and to identify antonyms. Students will be tested per the state standards.

Students will read independently and identify literary elements, main ideas, and make generalizations.

*Adaptations will be made for the general class. For example, students will be able to use notes, correct failed tests, etc...

Students will read and respond to a minimum of three novels that the teacher chooses for class and a minimum of four novels that the student chooses.

Direct instruction will be the main teaching strategy.

Honors English 11

Grade 11

Prerequisites: 85% or higher in Honors English 10 with teacher recommendation
or a 93% or higher in Academic English 10 with teacher recommendation

Completed summer assignment

This course incorporates and expands upon the elements of Academic English II. It is designed to challenge the college bound student through in-depth exploration of American literature and writing for different purposes. Several papers will be completed and outside reading is required. Vocabulary for college bound students is studied to support preparation for SAT and ACT testing. Instruction is aligned with Pennsylvania State Standards for Language Arts to prepare students for the PSSA. Writing is assessed using the Pennsylvania Writing Assessment Domain Scoring Guide.

Academic English 11

Grade 11

Prerequisite: 85% or higher in Academic English 10 with teacher recommendation or 93% or higher in English 10 with teacher recommendation

This course is designed for college-bound students to refine language arts skills in preparation for success in post-secondary education. Extensive reading, challenging writing assignments and class discussion aim to equip students to analyze literature and communicate intelligently. American literature is studied from an historical perspective to provide the student with a background in and appreciation of his/her literary heritage. A rigorous program of vocabulary study and writing/grammar skills helps students develop methods of self-expression and prepare for PSSA, SAT and ACT tests. Class discussion is conducted in a spirit of academic inquiry that nurtures intellectual curiosity. Students will respond to literature in class as well as to a minimum of four novels chosen for out-of-class reading. All work is evaluated according to PA state standards.

English 11

Grade 11

This course is designed primarily as a study of the various forms of literature, vocabulary, grammar, writing and rhetoric. American literature is studied from an historical perspective to provide the student with a background in and appreciation of his/her literary heritage. Vocabulary and grammar are studied to improve the student's command of everyday situations in both verbal and written usage. Class discussion, reading and writing assignments and projects allow students an opportunity to develop practical communication skills and prepare for the PSSA test. Students will respond to literature chosen for class as well as a minimum of four novels of their choice read out-of-class. All material is evaluated according to PA state standards.

Honors English 12

Grade: 12

Prerequisites: final grade of 'B' (85%) or better in English 11

Instructor approval from English Department Faculty

Dual Enrollment option available through Mount Aloysius for three credits

Weighted Course

Honors English 12 is a rigorous course intended for students who have demonstrated mastery of basic reading and writing skills, and who will pursue four-year academic degrees. The course is designed to develop further abilities in critical reading in mature fiction and non-fiction, and abilities in writing clear prose in response to that reading.

This course contains two main strands of instruction. First, it provides a survey of British Literature approached from both a cultural and historical perspective. Students read and reflect on the distinct relationship of a culture and its values to the literature that it produces. This relationship is further explored as students independently choose and read various British and world authors, examining themes and stylistic choices in the context of time and culture.

The second course component is writing instruction, aimed at teaching the skills necessary for academic writing success. Much focus is given to the writing process, especially in strategies for revision and self-analysis. Students are taught characteristics of mature and sophisticated usage, thesis development, argumentation and position support, and other vital writing skills. Each will demonstrate these skills in a culminating paper that serves as a final examination.

Academic English 12

Grade: 12

Prerequisite: 90% or higher in Honors 11
85% or higher in Academic 11, with teacher recommendation
93% or higher in Applied 11, with teacher recommendation
Completion of summer assignments

Academic 12 is specifically designed to meet the reading and writing needs of students entering a four-year academic college program. It is structured to provide students with an understanding of the history of English language and literature, with an emphasis on ways to approach that study. Concepts in writing covered by the course include levels of usage, and the expectations of formal English required for college writing success. Students are also required to read independently, and to compose essays based on the reading.

Applied English 12

Grade: 12

Prerequisite: Placement according to student scheduling preferences,
Standardized testing results and teacher recommendations

This course is designed to focus on the communication skills important in the working world. The content includes workplace writing skills, drawn from real world communications, and reading and speaking skills necessary for business success. Emphasis is placed on correctness, readability and usefulness of written assignments. Students are held responsible for completing outside reading assignments for each

quarter, and for an essay based on each book. On all written assignments, business communication skills and formatting form the standard for acceptability. The course also addresses, on an as-need basis, support for proficiency on mandated assessments.

French I

Grade: 9-12

Prerequisite: C or better in 8th grade English course

This full year course develops and provides students with listening, speaking, reading, and writing skills in the target language. The course contains three main areas of emphasis; vocabulary (**numbers, time, foods, shopping, air travel**), grammar (**present tense, simple future tense, interrogatives, regular and irregular verbs**), and culture (**French foods, cafes, school and family in France**). **The course goals are based upon the five foreign language standards. These goals are that the students (1) communicate in the target language, (2) gain knowledge and understanding of other cultures, (3) connect with other disciplines and acquire information through the target language, (4) develop insight into the nature of languages and culture, and (5) participate in multilingual communities at home and around the world.**

Focuses on PA Standards 12.1, 12.2, 12.3, 12.4, 12.5, and 12.6

Grammar taught includes subject pronouns, **adjectives**, possessive adjectives, regular and irregular verbs in the present tense and simple future tense, **interrogatives, and prepositions**

Culture taught includes foods, French cuisine, school, and daily life in France

Focuses on PA Standards 12.1, 12.2, 12.3, 12.4, 12.5, and 12.6

French II

Grade: 10-12

Prerequisite: **C or better in French I**

This full year course continues to develop and provide students with listening, speaking, reading, and writing skills in the target language. The course contains three main areas of emphasis; vocabulary (**body parts, clothing, jobs, household chores**), grammar (**past tense, reflexive verbs, direct object pronouns**), and culture (**French telephone and postal system, daily life in France**). Students are encouraged to communicate in the target language. **The course goals are based upon the five foreign language standards. These goals are that the students (1) communicate in the target language, (2) gain knowledge and understanding of other cultures, (3) connect with other disciplines and acquire information through the target language, (4) develop insight into the nature of languages and culture, and (5) participate in multilingual communities at home and around the world**

Focuses on PA Standards 12.1, 12.2, 12.3, 12.4, 12.5, and 12.6

French III

Grade: 11-12

Prerequisite: **C or better in French II**

This full year course is designed to further develop student skills in written and verbal communication in French. Emphasis is on oral communication and writing. Students are encouraged to communicate almost primarily in French. The course is divided into three main areas of study; vocabulary (**French foods, countries of the world, airline travel**), grammar (**verb tenses – past, imperfect, future, conditional, indirect object pronouns**), and culture (**study of French history, French cuisine, study of Paris and the metro system**). The course goals are based upon the five foreign language standards. These goals are that the students (1) communicate in the target language, (2) gain knowledge and understanding of other cultures, (3) connect with other disciplines and acquire information through the target language, (4) develop insight into the nature of languages and culture, and (5) participate in multilingual communities at home and around the world

Focuses on PA Standards 12.1, 12.2, 12.3, 12.4, 12.5, and 12.6

French IV

Grade: 12

Prerequisite: **C or better in French III**

This full year course is designed to further develop student skills in written and verbal communication in French. Class is conducted entirely in the target language, and students are required to communicate in French. The course is divided into four main areas of study; vocabulary (**hairstyles, false cognates**), grammar (**subjunctive verb tense, *passé composé* and *imparfait***), culture (**study of the regions of France, art history**), and literature (**reading a section of the novel *Les Misérables***). The course goals are based upon the five foreign language standards. These goals are that the students (1) communicate in the target language, (2) gain knowledge and understanding of other cultures, (3) connect with other disciplines and acquire information through the target language, (4) develop insight into the nature of languages and culture, and (5) participate in multilingual communities at home and around the world

Focuses on PA Standards 12.1, 12.2, 12.3, 12.4, 12.5, and 12.6

Library Skills 8

Grade 8

Duration: One 9wks grading period

Credit: .25

The course will include instruction/review of the district-wide card catalog and using print and electronic library resources. We will concentrate on POWER Library databases with students completing worksheets utilizing these resources.

Reading 7

Grade: 7

This class is designed as a developmental reading class focusing on learning through novels. Currently, the novels read at this level are Bearstone, My Brother Sam is Dead, and Walk Two Moons.

In addition to the novels read, two other units are covered: Study Skills and Literacy Terms. The Study Skills unit includes organizational and test taking skills. The unit on Literacy Terms provides background information dealing with elements of a novel and terminology associated with novels.

The objectives of this course are to increase vocabulary, improve comprehension of the written text, increase fluency, and to develop an interest in different types of literature.

Reading 8

Grade: 8

This class serves as a preparatory class for the PSSA test. The students taking this class are those who scored Below Basic or Basic on the PSSA test administered in the spring of their 7th grade year. The students are exposed to a variety of comprehension and reading skills. They will also have the opportunity to interpret and analyze fiction and non-fiction text. In addition, a vocabulary and writing component will be built in the curriculum.

Spanish I

Grade: 9-12

Prerequisite: C or higher in 8th grade English

This is a full year course that develops and provides students with skills in listening, speaking, reading, and writing in the target language. The course emphasizes vocabulary (i.e. describing friends/family/school, shopping, food, sports, etc.), grammar (present tense), and culture (i.e. food, music, holidays, art, etc.). The course goals are based upon the five foreign language standards. These goals are that the students (1) communicate in the target language, (2) gain knowledge and understanding of other cultures, (3) connect with other disciplines and acquire information through the target language, (4) develop insight into the nature of languages and culture, and (5) participate in multilingual communities at home and around the world.

Spanish II

Grade: 10-12

Prerequisite: C or higher in Spanish I

This is a full year course that develops and provides students with skills in listening, speaking, reading, and writing in the target language. The course emphasizes vocabulary (i.e. going to the doctors, outside activities, art, theater, travel, dining, etc.), grammar (present and past tense), and culture (i.e. food, music, holidays, art, etc.). The course goals are based upon the five foreign language standards. These goals are that the students (1) communicate in the target language, (2) gain knowledge and understanding of other cultures, (3) connect with other disciplines and acquire information through the target language, (4) develop insight into the nature of languages and culture, and (5) participate in multilingual communities at home and around the world.

Spanish III

Grade: 11-12
Prerequisite: C or higher in Spanish II

This is a full year course that develops and provides students with skills in listening, speaking, reading, and writing in the target language. The course emphasizes vocabulary (i.e. technology, shopping, pastimes, travel, etc.), grammar (present, past, future tense), and culture (i.e. food, music, holidays, art, etc.). The course goals are based upon the five foreign language standards. These goals are that the students (1) communicate in the target language, (2) gain knowledge and understanding of other cultures, (3) connect with other disciplines and acquire information through the target language, (4) develop insight into the nature of languages and culture, and (5) participate in multilingual communities at home and around the world.

Spanish IV

Grade: 12
Prerequisite: C or higher in Spanish III

This is a full year course that develops and provides students with skills in listening, speaking, reading, and writing in the target language. The course emphasizes vocabulary (i.e. doctor visits, city/country life, cooking, travel, etc.), grammar (present, past, future tense and commands), and culture (i.e. food, music, holidays, art, etc.). The course goals are based upon the five foreign language standards. These goals are that the students (1) communicate in the target language, (2) gain knowledge and understanding of other cultures, (3) connect with other disciplines and acquire information through the target language, (4) develop insight into the nature of languages and culture, and (5) participate in multilingual communities at home and around the world.

Speech

Grade: 8
Credit: .5

Speech is a one semester course required of all 8th grade students. Speaking in a non-competitive atmosphere and focusing on a non-threatening speaking environment, this course strives to provide opportunity for the student to learn how to present in a

classroom setting. Students learn the basic speech types and how to provide a well-organized framework for any speech or presentation they might make.

MATH

Algebra I

Grades: 8, 9

Prerequisites: C average in Pre-Algebra or C average in PSSA Math 8

Algebra I is designed to prepare students for higher level mathematics courses such as Geometry, Algebra II, Algebra III/Trigonometry, and Calculus. The purpose is to help the student develop an understanding of the fundamental concepts of Algebra. The course encourages students to understand, apply, synthesize, and evaluate algebraic processes. The objectives of the course correlate with the National and State Standards.

Algebra II

Grade: 10 - 12

Prerequisite: Algebra I, Geometry (C average)

Algebra II is designed as a second year course in Algebra. The purpose is to help the student develop an understanding of more advanced algebraic concepts. It encourages reasoning and discovery and helps the student to think critically about mathematics.

Algebra III/Trigonometry

Grade: 11, 12

Prerequisite: Algebra I, II, and Geometry (C average)

The Algebra III/Trigonometry course is designed to provide instruction in advanced algebra/pre-calculus concepts as well as to introduce and explore trigonometric concepts. The course is suited for students preparing for Calculus and/or for those who intend to pursue post-secondary education.

Integrated Math I

Grade: 9

Prerequisite: Freshman

This is the first course in the Applied Track designed to prepare students for the 11th grade PSSA. The course reviews basic mathematical concepts with an emphasis on basic Algebra and problem solving skills.

Integrated Math II

Grade: 10

Prerequisite: Sophomore

Applied Math II is designed to reinforce the basic concepts of Algebra and Geometry. The purpose is to help the student develop the fundamental skills needed for post-secondary associate degree programs or post-secondary careers. The course encourages higher level thinking skills and correlates with the Pennsylvania State Standards.

Integrated Math III

Grade: 11

Prerequisite: Junior

This course is designed as the final preparation for the Pennsylvania System of School Assessment. Course content is based on the PA Academic Standards with an emphasis on algebra, geometry, and basic trigonometry. This course serves as a preparation for Integrated Math IV.

Integrated Math IV

Grade: 12

Prerequisite: Senior

This course is for any senior who does not fulfill the PSSA requirements in their junior year or any senior wishing to select the course. PSSA Standards are emphasized throughout the course along with basic mathematics concepts.

Calculus

Grade: 12

Prerequisite: Algebra II, Geometry, Trigonometry (or taking) (C average)

Dual Enrollment option available through Mount Aloysius for three credits

Weighted Course

The course is designed for students enrolling in a post secondary program that requires a Calculus component. The course begins with a Pre Calculus review of Algebra III and Trigonometry. The focus will be on the characteristics of functions and their associated graphs. Limits will be introduced for the development of the derivative. Techniques for finding derivatives as well as the applications of the derivatives will be explored. The course will conclude with anti- differentiation (integration) techniques and applications.

Geometry

Grade: 8-12

Prerequisite: Algebra I (C average)

This course is designed for students that have successfully completed Algebra I. This course is designed to help students discover, learn, and apply geometry. Students will be challenged to make connections from concrete examples to abstract concepts. Many algebra concepts are reviewed as the geometry concepts are applied.

Pre-Algebra

Grades: 7

Pre-Algebra is designed to provide an introduction to basic Algebra and Geometry concepts. The purpose is to prepare students for higher level mathematics courses. The course encourages students to understand, apply, synthesize, and evaluate basic Algebra and Geometry concepts. The objectives of the course correlate with the National and State standards.

PSSA Math 8

Grade: 8

The PSSA Math 8 course is designed to provide comprehensive instruction in the areas of Geometry and Measurement, Algebra, Analyzing and Displaying of Data, and Probability, as well as to provide a review of the mathematical skills and concepts introduced in Pre-Algebra. This course is offered to eighth grade students who do not meet the prerequisites for Algebra I and/or satisfy PSSA proficiency requirements.

SCIENCE

Anatomy & Physiology

Primarily for grades 11-12

Prerequisites: The course is open for all academic students who have completed Chemistry I and Biology I **(with a C or better)**

****Course is mandatory for those students who are currently enrolled in Sports Medicine II. Students enrolled in Sports Medicine II must pass Anatomy & Physiology if they are to receive a science elective credit.**

This course is designed to give students an in depth understanding of the human body and the essential concepts of anatomy and physiology. Students enrolled in the course should be those individuals who wish to seek a career in the health sciences or have a strong interest in science. Course information will include, but is not limited to: The reproductive, skeletal, muscular, nervous, integumentary, respiratory, and circulatory systems, as well as physiology and kinesiology. Course material will also reinforce aspects of nutrition, metabolism, and biomechanics. The course will use critical thinking, real-life application, and research to reinforce the fundamental concepts of the course material.

General Biology I:

Grade: 9

General Biology I is designed to develop a basic understanding of living things in the world. The course explores fundamental ideas and concepts such as cell structure and

function, genetics, diversity and classification, ecology, evolution, anatomy and physiology of animals and plants.

Academic Biology I

Grade: 9

Prerequisites: Students must be taking Geometry as a ninth grader

Academic Biology I is designed to develop a basic understanding of living things in the world. The course explores, at a more accelerated pace and higher level than general biology, fundamental ideas and concepts such as cell structure and function, genetics, diversity and classification, ecology, evolution, anatomy and physiology of animals and plants.

Biology II

Grade: 11, 12

Prerequisites: Academic Biology I, Chemistry I

Students **must** have completed both of these courses with a final average grade of at least **85%**.

Requirements: Students will be **required to dissect** a series of animal specimens.

Students will be required to complete **summer preparation work**.

Dual Enrollment option available through Mount Aloysius for four credits

Weighted Course

This course is offered primarily to eleventh and twelfth grade academic track students who have met the prerequisites for the course. Many of the students taking Biology II are interested in continuing their studies in the natural science or health science fields.

The Biology II course is a more in-depth study of the science of Biology. Course units of study will include cell structure and function, Genetics, animal anatomy and physiology, evolution, biochemistry, and current events.

Chemistry I

Grade: 10 - 12

Prerequisite: Academic Biology and Algebra I

Periods/Week: 6

Credit Value: 1.2

This course includes a study of matter with emphasis on the motions of electrons, protons, neutrons, ions, atoms and molecules. Periodic arrangement of the elements will be stressed along with the basic chemical processes. Topics covered will include: atomic theory, bonding, history and background of chemistry, chemical reactions, and interactions of matter and energy. Simple chemical calculations deal with percentage composition, percentage error, scientific notation, mole stoichiometry, and gas law problems. All the above material will be related to the importance and use of chemistry in the students' daily life.

This is a laboratory course in which the student will have the opportunity to gain skills in using equipment and handling chemicals.

Chemistry II

Grade: 11, 12

Prerequisite: Chemistry I (C or better)

Dual Enrollment option available through Mount Aloysius for four credits

Weighted Course

This course picks up where the student left off in Chemistry I. The course is intended for academic students planning further study in a science related field at the college level. Chemistry topics covered are more in depth of theory and more strenuous in mathematical expectations than Chemistry I. Topics covered will include: solutions, bonding, solubility, acids/bases, oxidation/reduction, thermochemistry, kinetics, and basic organic nomenclature using the IUPAC system. All the above material will be related to the importance and use of chemistry in the students' daily life.

This is a laboratory course in which the student will have the opportunity to gain skill in using equipment and handling chemicals.

General Science I

Grade: Primarily Grade 10

General Science I will cover such topics as Plate Tectonics, Ecology, Human and Animal Populations (Biodiversity), Mineral and Energy Resources, and the positive and negative impact humans may have on our environment. The goal of the course is to create life long learners in the field of science. The course will also have a strong focus on student achievement during the future PSSA Science 11 testing. The course will use critical thinking, real-life application, and research to reinforce the fundamental concepts of the course material.

General Science II

Grade: 11 -12

Credit Value: 1

General Science is a survey course of the major branches of Earth Science, Physical Science (Basic Chemistry and Physics), and Astronomy. The course is designed to instill in the student an appreciation of natural surroundings. Many of the concepts studied are encountered in the daily news highlighting their practicality.

Physics

Grade: 12

Prerequisite: Algebra I, II

Weighted Course

Physics is the most fundamental of the sciences. Physics is increasingly found to be the underlying study of not only the physical sciences but also the earth sciences and the biological sciences as well. This high school level physics class is designed to introduce

prospective college students to their first mathematically based physics experience. Algebra I and II are prerequisites, and it is suggested that trigonometry should be at least be taken concurrently. Strong emphasis is placed on solving problems. A scientific calculator is recommended. This course also involves laboratory experiences that reinforce concepts introduced during the regular class.

Science 7

Grade: 7

Credit Value: 1

Integrated Science is an introductory course that explores the basic principles of Earth and Life Sciences. During the first half of the year, students will explore the natural world around them. During the second half of the year, students explore the characteristics of all living things, their basic needs, and their interactions. Students will also explore the fundamental structures of all living things such as the parts of cell, tissues, organs, etc. Students will conduct labs using the Scientific Method and learn how to produce a lab report. This course is designed to promote a positive attitude toward all aspects of science.

Science 8

Grade: 8

Prerequisite: Completion of Science 7

Credit Value: 1

This is an introductory General Science course that explores a broad range of sciences. In this course students will explore Earth, Physical Sciences (Chemical/Physical Properties, Physics), Biological sciences (Genetics and Animal Diversity), Ecology, and Astronomy. Students will engage in many research projects that will reflect the practicality of science and how it affects us everyday. Students will leave this course with a solid foundation in all of the sciences. This course is designed to promote a positive attitude toward all aspects of science, prepare students for future science courses, and prepare them for the PSSA Science 8 test.

SOCIAL STUDIES

7th Grade Social Studies

Grade: 7

This course is designed to introduce seventh grade students to world history. Content begins with prehistory and follows the development of human civilization through ancient times up to the Middle Ages. Emphasis includes the following: geographical features of specific civilizations, accomplishments and contributions of specific civilizations, and the history and influence of major world religions.

8th Grade Geography

Grade: 8

The Geography concentration at the eighth grade level is to promote geographic knowledge and literacy to assist in future social studies courses. World Geography encompasses all major land areas and bodies of water on the globe. Map reading skills and U.S. Geography will receive additional attention. Countries are examined through the five themes of geography with emphasis on the land, the people, and their history.

Advanced Placement History

Grade: 12

Prerequisite: See Instructor

Dual Enrollment option available through Mount Aloysius for three credits

Weighted Course

Advance Placement U.S. History is a college style course which surveys U.S. History from exploration to the present. The ultimate goal is successful preparation for the A.P. U.S. History Exam which can result in college credits. Reading and writing requirements are substantial. This course may be substituted for the 12th grade Social Studies requirement.

American Government

Grade: 12

American Government is a comprehensive civics course that focuses on the principals, documents and operation of the government of the United States of America. The course also covers the roles of state and local governments, and the rights and responsibilities of citizens.

American History I– 9 (Soc. St.9)

Grade: 9

Objectives for this course focus on understanding and evaluating our American Heritage. Content traces the exploration and evolution of the United States through the end of the Civil War. Emphasis will be placed on the Constitution as well as significant people and events in American History.

American History II – 10

Grade: 10

As a continuation of the ninth grade course, tenth graders will examine and analyze the events and people that shaped the American way of life. Content area spans from Reconstruction through the end of Great Depression. The themes of industrialization, labor, the west American Expansion and warfare receive special attention.

Contemporary World History

Grade: 11

Eleventh Grade Contemporary World History is a continuation of the American History courses but with a world emphasis. Global conflicts and events are studied with the inclusion of other cultures and viewpoints from around the world. Chronologically, the class examines events from World War II to the present.

Criminal Justice

Grades 11-12

Prerequisite: See Instructor

Credit Value: .5

Criminal Justice provides a foundation for the procedures that various agencies use to identify and treat criminal offenders by giving students a basic introduction to crime, law, and justice. Students will examine an overview of the law enforcement field with particular emphasis on the adjudication process which also explores the juvenile justice system.

Economics

Grades 11-12

Prerequisite: See Instructor

Credit Value: .5

Economics presents the core principles of microeconomics where students learn the role of demand and supply in determining prices in competitive versus monopolistic markets. This course focuses on the most important tool in economics, supply and demand analysis, and applies those concepts in order to explain current economic issues.

PE/HEALTH

Adapted Physical Education

Grade: 7-12

Prerequisite: Special Education

Periods/Week: As directed by Doctor or IEP

Credit Value: .5

The Adapted Physical Education course is designed to meet the needs of the student whose disability prevent participation in the regular physical education class (must be documented in the student's Individualized Education Program). All areas are designed with individual student needs and limitations in mind.

Health 8

Grade: 8

Periods/Week: 5 (9 weeks)

Credit Value: .25

Health 8 is provided for students so that they may gain a better understanding of their own physical, mental, and emotional makeup as well as others. The course is designed to provide examples of acceptable social, emotional, and physical behavior to act as guides for students going through the adolescent period. With a better knowledge of themselves and others, it is hoped that these young people might be better prepared for the decisions of the adult world.

Health 10

Grade: 10

Credit Value: .5

This course will emphasize the development of physical, mental/emotional and social health of the individual. Units covered in Health 10 include the following: understanding the physical structure, coping with emotional and mental problems, disease prevention, human growth, nutrition, the effects of tobacco, alcohol and drugs, community health, and social health problems. We strive to make students aware of healthful and risk behaviors and their holistic effect on their physical, mental/emotional, and social well-being.

Physical Education

Grade: 7-9

Periods/Week: 5

Credit Value: .5

Physical Education is that part of the total educational program that focuses on the growth and development of physical skills and abilities of an individual through games and contest. Physical Education gives each student a chance to be a participant. Students will be introduced to team competition and will incorporate skills, techniques, strategies and rules learned for team sports. Students will be introduced to a variety of individual/dual sports concentrating on skills, techniques, strategies, and rules. Good sportsmanship, responsible attitudes, appreciation toward oneself, and regard for others are all promoted in this program.

Physical Education I (Individual)

Grade: 10-12

Periods/Week: 5 Fall Semester

Credit Value: .5

Physical Education is that part of the total educational program that focuses on the growth and development of physical skills and abilities of an individual. Physical Education I will focus entirely on individual/dual sports. Skills, techniques, strategies and rules learned for individual/dual sports will be used enabling the student to progress to a higher level of ability. Potential use of these lifetime activities will be emphasized.

Good sportsmanship, responsible attitudes, appreciation toward oneself, and regard for others are all promoted in this program.

Physical Education II (Team)

Grade: 10-12

Periods/Week: 5 Spring Semester

Credit Value: .5

Physical Education is that part of the total educational program that focuses on the growth and development of physical skills and abilities of an individual. Physical Education II will focus entirely on team sports. Skills, techniques, strategies and rules learned for teams sports will be used enabling the student to progress to a higher level of ability. Potential use of these lifetime activities will be emphasized. Good sportsmanship, responsible attitudes, appreciation toward oneself, and regard for others are all promoted in this program.

ELECTIVES

Accounting I

Grade: 10-12

Credit Value: 1

(Counts as a math credit if student scores Proficient or Advanced on 11th grade PSSA Test, otherwise 1 credit general elective)

A one-year introductory financial accounting course, which stresses learning the rules and procedures of accounting for profit-motivated businesses, is designed for both college bound and vocational/entry level students. The "how" and the "why" of accounting will not only enable one to keep accurate financial records required to produce useful business information but will give one the capacity to use that financial information to make wise business decisions. We will journalize using T accounts and expand to include four special journals. We will learn to post to general ledgers as well as subsidiary ledgers. We will learn how to complete the accounting cycle by preparing 6 and 10 column work sheets along with generating financial statements. Students will learn how to keep payroll records including how to determine federal statements. Students will learn how to keep payroll records including how to determine federal, state, local tax deductions.

Accounting II

Grade: 11 or 12

Prerequisite: 85% or better in Accounting I or Instructor Permission

A one-year advanced accounting course is designed for both college-bound and vocational/job ready students. Much of the same material that was studied in Accounting I will be reviewed and enhanced with the transition from manual accounting to

computerized process of real-world business procedures. Spreadsheet application as well as completion of financial statements will become electronically produced. Peachtree Accounting software will be used to take the student into the new millennium. Business simulations are included throughout the text as well as the instruction of ethics in business.

Advanced Art I

Grade: 11 and 12

Prerequisite: 93% in Arts & Crafts

The focus of this course is to build upon the students' current artistic foundation acquired through past art classes. The course will give the students the opportunity to discover and learn about famous artists and artworks found within society and grant them the opportunity to explore advanced artistic processes and mediums.

Advanced Art II

Grade: 11 and 12

Prerequisite: 95% in Advanced Art I

The course is specifically designed for students who are looking to further their artistic education in hopes of acquiring an art career in their future endeavors. It will allow the students to explore and master their very own artistic skills within the creation of an art portfolio. This portfolio of work will be the students' springboard into the artistic world outside of their high school experience.

Advanced Tech

Grades 10-12

Advanced Tech is a hands-on class, in which students research, study, design, and build various projects. Students work individually or in groups on various problem solving activities. Some of the activities include: bridge design and construction. (a scale model bridge is constructed and tested for strength), design and test the flight of an air foil, work with a team to design and construct a working Rube Goldberg device, design a vehicle to pull a weighted cart and construct a large scale launching device.

Agriculture Work Experience

Grade Level: 12

Prerequisite: 3 credits of Ag. Course complete and teacher approval

Credits: 1-2

Students can elect to be released to work at an area agricultural business or business that relates to the agricultural curriculum. Instructor approval is required.

Animal Science

Grade Level: 10 – 12

Animal Science and Production will include units in Dairy Production Livestock Production, Veterinary Science, Animal Nutrition, and Non-Traditional Animal Agriculture. Students will be exposed to skills needed to work in the animal industry.

Applied Tech

Grade: 9

This class is designed as an introduction to design, manufacturing and shop processes. The students will also have an introduction to CADD. The students will design, draw and construct various projects in the lab. Students will also be introduced to the CNC router. Projects that the students will design and construct include a CO 2 powered vehicle, a bridge, and various projects in the wood shop.

Art

Grade: 7

Prerequisite: None

Students will learn basic drawing skills. These skills will be applied to color work using both pastels and watercolor paint.

Exploring Art

Grade: 9

Prerequisite: None

The focus of this course is to build upon the students' existing art studio skills through the exploration of many different artistic mediums. The course is intended to make the students aware of what is available to them within the study of art and the possibilities art offers them as individuals.

Arts/Crafts

Grade: 10-12

Prerequisite: Ideally, students have completed 8th and 9th grade Art at Penns Manor

Credit Value: .5

Drawing emphasis is switched from construction to direct observation of objects and models. Concepts concerning right/left brain theory as outlined in the book, "Drawing on the Right Side of the Brain," are used as an intellectual basic for various drawing exercises. In addition, the student is introduced to basic skills and procedures in the following art mediums: Watercolor and Acrylic on canvas, ceramics, and silkscreen.

Band

Grade: 7-12

Prerequisite: Permission

Credit: 1

During the first ten weeks of school, as well as two weeks before school begins, the emphasis of the band is on marching and performing half-time shows at the football games. This particular group gives many of our instrumental students an opportunity to perform on a second instrument, as a majorette, as a flag-twirler, or as a member of color guard. The emphasis on quality music and musicianship is maintained throughout the season.

The concert band is the highlight of the instrumental program. It is made up of students from grade seven through twelve who have achieved the level of musicianship needed to play music literature that is worthwhile and acceptable. The concert band performs a Christmas concert, a winter concert, and a spring concert. Students who excel in this group have the opportunity to participate in country, district, regional, and states bands, as well as the IUP honors Band. These students also have the opportunity to play in the pep band and the pit band for the school's musical production. All students in band must participate in both the marching and concerts bands.

Business Management

Grade 10-12

Business Management is a full year course developed to provide students with a solid foundation of established business principles and practices that form the groundwork for all business operations. Business fundamentals such as economics, legal, and social foundations are presented along with a close look at organizing businesses, marketing practices, financial operations, managing and developing human relation skills and making difficult business decisions in a competitive atmosphere. This course will be especially beneficial to vocational business students and college bound students who are considering a business related major.

Business Law/Marketing

Grade: 10-12

Business Law and Marketing are courses developed to introduce students to the legal issues that have an impact on everyday living, employee/employer rights and responsibilities, contracts and the latest marketing trends and strategies being used in the business world. Both courses will present students with career opportunities available in the legal and marketing fields. The course is open to students in all curriculum areas and will be especially useful to vocational business and college bound students who plan to major in business related fields.

Business Math

Grade: 10-12

Credit Value: 1

(Counts as a math credit if student scores Proficient or Advanced on 11th grade PSSA Test, otherwise 1 credit general elective)

Business Math is a full year course for students who have an interest in developing math skills related to vocational business situations. Course content includes maintaining a checking account, payroll computations, calculating discounts, interest, depreciation, and an introduction into accounting. Students who are interested in owning their own business will benefit greatly by completing this course.

CADD I

Grade: 10 – 12

Prerequisite: Construction

In Computer Aided Drafting and Design (CADD) students will learn to use AutoCAD and apply it to a variety of drawing and design situations. After an introductory orientation, students will learn to read and draw several types of technical drawings. This information will then be applied in the design process as student's work individually and in groups on a number of architectural and engineering activities. Students will play the role of professional designers and planners who create design solutions to client's problems. A final project is required where students will build a scale model of a house that they design as part of the architectural unit of study

CADD II

Grade: 11 or 12

Prerequisite: CADD I

In Computer Aided Drafting and Design II (CADD), students will build upon the concepts learned in CADD I. The student will use more complex procedures in the development of graphical solutions. This course will also expose the advanced CAD user to aspects of 3D-design. Students will work with 3D modeling, solid modeling, presentations, and application projects. The students will again design a scale model of a project for a final grade. Students will also be introduced to CAD/CAM Manufacturing. This curriculum is designed to allow students to produce a variety of projects using a C.N.C. mill.

CADD/FAB

Grade: 10-12

In this course, students will interpret CAD drawings to fabricate a mini chopper. A horizontal shaft lawn mower motor or a 50/70cc mini bike motor will power the chopper. The student will take a hands-on approach to fabricate the chopper, as well as, produce all the jigs needed to build the bike from the ground up. When necessary, custom parts

and/or jigs will be designed and produced. Using a team approach, students will learn many skills. These skills include: designing, welding, fabricating, problem solving, teamwork skills, and building concepts. During part of the course, students are also invited to bring in a bike of their own to repair or restore. Students will be assigned in groups according to their interests or knowledge to complete the necessary work for all projects.

Civil War Brass/Jazz Ensembles

Grade: 7-12

Prerequisite: Member of band, director permission

Credit: .5

The Civil War Brass/Jazz Ensembles enable students to participate in a small ensemble and perform different genres of music. The groups practice once a week in the evenings for 2 hours. Both ensembles perform at the band concerts and at various events outside of school. Many students learn a second instrument to participate in these groups.

Computer Applications

Grade: 10-12

Computer Applications is a full year course designed to introduce students in grades 10 through 12 to the software applications available in Microsoft Office 2000. These applications include Word, Excel, Access, Power Point, and the Microsoft Internet Explorer. Students will be given the opportunity to work hands on with IBM compatible computers on a daily basis. Course objectives are developed for both personal and business use. The course is open to students from all curriculum areas and is highly recommended for college bound and vocational business students.

Computer Literacy

Grade: 9 or 10

Credit Value: 0.5

Computer Literacy is a one-semester course required for graduation. The course is designed to introduce students to the basics required to operate a computer and an introduction into the Microsoft "Office" software program. Students will be required to show competency in "Word" (Word Processing), "Excel" (spreadsheets), "PowerPoint" (graphics presentation) and Internet usage for successful completion of the course. The course is almost entirely "hands-on" using the Penns Manor S.D. computer networking system.

Construction

Grade Level: 10-12

Students will be introduced into the trade areas of masonry, plumbing, electrical and carpentry. Students will learn basic theory in these areas and apply the theory to hands on projects. Projects may include storage sheds, garages and laboratory exercises.

Students will be able to enhance their skills and talents and find their likes and dislikes. Information will be provided on post secondary technical schools that could provide further training towards a career.

Creative Foods

Grade: 10-12

Credit Value: .5

This course allows students to advance their skills in food preparation. They will be introduced to special skills such as cake decorating and vocabulary involved in specialty baking such as breads, cakes and pies, preparing of fruits and vegetables, cooking pasta and casseroles, as well as an introduction to some international cuisine.

Drivers Education:

Grade: 9 – 12

Prerequisite: None

Periods/Week: One Semester

Credit Value: 0.5

The classroom portion of Drivers Education is designed to help novice drivers develop the knowledge, skills, and attitudes necessary to become safe, low-risk, responsible drivers. After successfully completing this class, students will have a 6 hour BTW (Behind the Wheel) course conducted by Canton's Driving School.

Economics

Grade: 11 or 12

Prerequisite: Algebra I

Economics attempts to present a broad array of economic and monetary concepts through a macro and microeconomic strategy. Content will include business enterprise and organization, scarcity, consumer finance and decision making, personal accounting and taxes, as well as supply and demand. Additionally, students will participate in the stock market game. Math proficiency is necessary for this class.

Exploring Technology

Grade: 7

Credit Value: .25

This course is designed to give students an introduction to the technology lab and the applications of technology in our society. The length of the course is nine weeks. During this time, students will have the opportunity to work at various learning modules as well as, work on a problem solving activity. This activity consists of students designing, producing, and testing a paper car that will be entered in a pine-wood-derby style race.

The problem solving activity is graded the last week of class. The students engage in this activity two days a week, therefore a student's grade may not be accurately reflected until completing the course.

Family and Consumer Science

Grade: 9

Credit Value: .5

This course examines life management skills in the areas of personal and family living; wellness, nutrition, foods; financial management; consumerism; living environments; appropriate child care practices; and job readiness. Emphasis is placed on students applying these skills during their teen years.

Family and Consumer Practical Arts 8

Grade: 8

Periods/Week: one marking period for two periods

Credit Value: .25

This course introduces the student to the Family and Consumer Science Curriculum. Students will be able to establish basic skills in clothing construction, as well as food and nutrition. Also, the students will be introduced to the career possibilities that are available within the Family and Consumer Science Curriculum.

General Art

Grade: 8

Periods/Week: one marking period

Credit Value: .25

The student will master perspective drawing by learning to create original fantasy objects and buildings. Also, the student is introduced to the concepts of negative space and observational drawing, using varied matter.

General Music (7)

Grade 7

9 Weeks

Credit Value: .25

General Music 7 involves a general survey of different aspects of music. Students will be able to understand relationships between music, the other arts, and disciplines outside the arts. Activities will allow students the opportunity to explore and analyze the elements of music (melody, harmony, rhythm, etc.) in selected styles of music.

General Music 8

Grade 8

9 Weeks

Credit Value: .25

General Music 8 will begin with a review of the concepts introduced in General Music 7. Students then will explore basic activities regarding “comprehensive musicianship”: reading music, writing music and performing music.

Guitar 101

Grades 9-12

One Semester (18 Weeks)

Credit Value: .5

Prerequisite: Introduction To Guitar

(Class size should be limited to a maximum of 10 students.)

This elective class will build on the basic skills of Introduction To Guitar. Students will continue to apply music theory to perform chord progressions using both major and minor chords. Selected songs will be used to demonstrate that the guitar can be used as both a solo and an accompanying instrument by performing different picking and strumming patterns.

Horticulture

Grade Level: 10 – 12

Horticulture is an introductory course to Greenhouse Crop Production, Hydroponics, Nursery Crop Production, Landscaping, Fruit and Vegetable Productions. Students will gain hands on training in growing crops in the school greenhouse, nursery and community landscape projects.

Introduction to Art

Grade Level: 8

Prerequisite: None

The focus of this course is to introduce the students to the world of art through discovery and development of studio processes and in-depth discussion pertaining to Art History, Art Aesthetics, and Art Criticism.

Introduction to Agriculture

Grade Level: 9-12

The Agriculture I class is an introduction to all fields of agriculture. This is the first class a student will take in the 4 year Agriculture Education Program. The units covered in this

course are Wildlife Management, Soil Conservation and Water Quality, Ag Record Keeping, Horticulture and Animal Science. Students selecting this course will be eligible to join the FFA. Students planning a career in Agriculture Education, Forestry, Agronomy, Veterinary Science or other Agricultural careers should select this course.

Introduction to Business

Grade: 9th only

A one-year course designed to introduce a student to many aspects of the business field. Each 9 week period will be used to acquaint the student with: economics, entrepreneurship, organizational structures, management, the role of government in business, money and financial institutions, marketing, human resources, technology advancements in the workplace, career planning, consumer decisions, and money management. Each of these topics will present terminology that will allow the student to see how business affects everything they will do upon graduation.

Introduction to Guitar

Grades 9-12

One Semester (18 Weeks)

Credit Value: .5

(Class size should be limited to a maximum of 10 students.)

This elective class will introduce the student to the basics of playing the guitar. “Hands-on” class time will be devoted to proper methods in tuning, maintenance and playing techniques. Students will also be introduced to basic music theory which will enable them to perform basic melodies and harmonies.

Introduction to Programming (Computer Science)

Grade: 9, 10, 11

Credit Value: 1

Pre Requisite: Algebra I ($\geq 80\%$)

This is an introductory computer science course designed for students interested in basic computer technology (hardware/software) and programming. The course begins with the history of the modern computer as well as associated terminology. Hardware and various peripheral devices are defined and manipulated. Students will explore the advent of the modern operating system in conjunction with associated application software packages. The course will conclude with an introduction to programming techniques using Visual Basic.

Introduction to Technology

Grade: 8

This course is designed as a hands-on class in building and design. The students will design, draw, and construct a small bridge. The bridge will be tested for strength. The

second project is to design and build a vehicle, powered by a mousetrap, to travel at least 30 feet. If time is available, the students will get an introduction to woodworking.

Java (Computer Science)

Grades: 11, 12

Prerequisite: Visual Basic

Dual Enrollment option available through the University of Pitt for 3 credits

Weighted Course

This is a computer programming course designed for students interested in pursuing a post secondary major in the area of computer science. The focus of this course is on problem analysis, development of algorithms, and computer programs in a modern high-level language. The course syllabus aligns with the University of Pittsburgh's College in High School (CHS) program. Students enrolling in this course have the option to participate in the College in High School program (3 credits).

Journalism

Grade: 10-12

Prerequisite: Teacher approval

Journalism uses a hands-on approach to develop journalistic skills, focusing on the publication of the school newspaper, the *Cometarian*. The class is predominantly production-based. Students learn all aspects of publication from budgeting to printing and are encouraged to develop interpersonal skills needed for interviewing and teamwork. Every class member is a staff member who is required to write for the publication and take on additional responsibilities relating to his/her staff position.

Junior High Chorus

Grades: 7-9

Credit Value: dependent on time scheduled (Semester/ Classes per week)

Junior High Chorus is a performing ensemble which may be elected in grades 7, 8, and 9. Concepts such as singing in harmony and beginning concepts of aural training and other performance skills such as posture, tone, intonation, rhythm, and articulation will be introduced and reinforced.

Junior Chorus students perform in at least two public evening performances. Attendance at all performances is required. Students from this ensemble are eligible to be selected for honor choirs as the opportunities arise.

Music Theory

Grades: 10-12

Students aspiring to a career in music education require extra preparation in the fundamentals of music in order to experience success at the collegiate level. For its size, Penns Manor produces an unusually large number of students that go on to pursue careers

in Music Education. This course, through analysis of published pieces, aural training, studies of the development and history of music, and the creation of their own compositions, will develop and hone student skills in music fundamentals. This course also provides a chance for those students who do not want a career but wish to learn more about music to have an elective in an area of interest to them.

Parenting

Grade: 10-12

This course prepares the student for the future role of being a responsible **parent**. Emphasis will be given to the processes of parenthood, including conception, pregnancy, prenatal development, and birth through an in depth study of the family structure, human reproduction, and child development from birth to teen. Students will also be given the opportunity to experience hands on what it will be like to be a parent of a newborn baby.

Personal and Family Living

Grade: 10-12

Periods/Week: one semester

Credit Value: .5

This course is designed to allow students to take action for the well being of themselves and others in the family, workplace, and community. Topics include financial management, personal development, relationships, career development, and nutrition and wellness. The focus is on what students need to know and be able to do to manage work and family responsibilities.

Power Mechanics

Grade Level: 11 -12

Power Mechanics is a course that introduces students to engine theory, engine maintenance and repair. Students will apply theory to hands on practical situations. Students will experience the operation and safe handling of gasoline, diesel, and electrical powered equipment. Students will be introduced to the electric, welding, mig welding, oxy-acetylene welding, and plasma cutting.

Psychology

Grade: 11-12

Dual Enrollment

Psychology is an elective course designed to expose students to the many aspects of the field of psychology. Content includes notable people and events in the development of the discipline. The functions of the human mind and its effect on people's actions receive detailed attention. Psychological disorders and their treatment, personality theories, memory and learning, as well as human development throughout the lifespan are also studied. The course is meant to prepare students for an introductory psychology course

in college and give general information on psychology that can be valuable in everyday life.

Senior High Chorus

Grade: 10-12

Credit Value: dependent on time scheduled (Semester/ Classes per week)

Senior Chorus provides the opportunity to develop proper vocal techniques through the study and performance of varied choral repertoire. In addition to performing in school-related activities such as Christmas and Spring Concerts, the Senior High Chorus may take part in selected community events. Attendance at these performances is required. Individual students also may qualify for participation in selected choruses at the county, district, regional, state, divisional and even national levels.

Sports Medicine I

Grades: 10-12

Credit Value: 1

Students will develop a working knowledge of basic anatomy and physiology, kinesiology, strength training and conditioning, techniques to prevent injuries, rehabilitation of injuries, nutrition for sports performance, exercise testing, exercise program design, as well as, basic first aid and CPR, certifying them through the American Red Cross. A portion of the class will allow the student to work with a health professional in a sports setting. Students may possibly shadow the school trainer at sporting events to help assist with sports related injuries. **Additionally, this course gives students the opportunity to earn 3 dual enrollments (college credits) through Pennsylvania Highlands Community College. If the student chooses this option, out-of-pocket expense will only be \$30/credit. There will be no additional fees or charges. After earning these credits, students can TRANSFER these credits into other two and/or four year colleges and universities as an elective. However, it is the students RESPONSIBILITY to check with the college they plan on attending to be sure that these credits will transfer into their desired program. If a senior only takes Sports Medicine I they can still earn dual enrollment credits through regular class work, as well as, independent work outside of class. Sophomores and juniors must take Sports Medicine I and II to earn the college credits.**

Sports Medicine II

Grades: 10-12

Credit Value: 1

Students will build upon the principles gained in Sports Medicine I. Students will expand their knowledge base by focusing on sports and orthopedic injuries. The objective of this course is to provide the students with rehabilitation applications to specific ailments and injuries that occur to athletes and the general population. General

rehabilitation principles and modalities of treatment will be studied. Students will be recertified in first aid and CPR through the American Red Cross. Sports Medicine II will also provide students with knowledge of anatomy, physiology, exercise design, exercise testing, and specific sport strength and conditioning techniques to prepare students for possible personal training/fitness specialist certification following graduation with the National Strength and Conditioning Association or the American Council on exercise. **Additionally, this course gives students the opportunity to earn 3 dual enrollments (college credits) through Pennsylvania Highlands Community College. If the student chooses this option, out-of-pocket expense will only be \$30/credit. There will be no additional fees or charges. After earning these credits, students can TRANSFER these credits into other two and/or four year colleges and universities as an elective. However, it is the students RESPONSIBILITY to check with the college they plan on attending to be sure that these credits will transfer into their desired program. Sophomores and juniors must take Sports Medicine I and II to earn the college credits.**

Visual Basic (Computer Science)

Grade: 10-12

Prerequisite: Introduction to Programming

Dual Enrollment option available through University of Pitt for 3 credits

This is a computer programming course designed for students with a variety of academic interests. The course syllabus aligns with the University of Pittsburgh's College in High School (CHS) program. Topics include problem analysis, development of algorithms, statements, commands, debugging, loops, control structures, expressions and operators, the top-down programming concept, subroutines, arrays and subscripts, nested structures and loops, logical operators, sorting algorithms, string data and character string manipulations, file access, graphics, sound, and color. Students enrolling in this course have the option to participate in the College in High School program (3 credits).

Web Design

Grade: 11 & 12 only

Prerequisite: Grade of 87% Computer Literacy, Computer Applications, Computer Science, or Instructor's permission

A one year course designed to introduce the student to the fundamentals of Web page design using Microsoft Frontpage. Each nine week period will be used to acquaint the student with: Web basics, computer basics, networks, online basics, HTML, designing Web sites, enhancing and maintaining Web sites. The class will also be involved in maintaining the school Web site.

Wood I

Grade: 10-12

The purpose of this course is to introduce the students to basic woodworking. The course is offered to any 10th, 11th, or 12th grade student for a full year and is one credit. Course

content includes common types of wood and wood products, introduction to basic hand tools, and the safe operation of various portable power tools and woodworking machines. These will all be incorporated in the construction of various products in the shop during the year.

Wood II

Grade: 11 and 12

Prerequisite: Wood I

This course is designed to allow students to hone their wood working skills developed in previous years. Each student will use more complex procedures to develop projects of special interest. Students have the opportunity to work on projects they wish to create and/or required by the instructor.

Wood III

Grade: 12

Prerequisites Successful completion of wood I and wood II.

The purpose of this course is to allow students the opportunity to work in a small class environment to construct more complicated projects. Students will use their woodworking experience to design and produce custom projects and furniture.

Yearbook

Grades: 10-12

Prerequisite: Permission

The Yearbook Processing and Design journalism curriculum offers writing, analytical communication, computer, and leadership skills. In addition, it provides students with the opportunity to plan, produce, market, and distribute a product for the entire school community. The students use the yearbook avenue.com on-line program to produce the Comet Flash yearbook. The students have and opportunity to gain life skills, assume responsibility and have fun at the same time.

GUIDANCE

Guidance 7

Grade: 7

Guidance 7 is designed for all students in grade 7. The class is based on our schools mission statement, which includes preparing students in academic skill, career exploration, life skills, and social responsibility in order to help them become productive students/citizens in an ever changing society. During the course of this class, students will begin to develop a comprehensive career portfolio using Bridges career exploration software, which they will continue to contribute to until graduation. Guidance 7 is graded according to student participation.
