

English

AP English Literature and Composition

Credits: 1.25

- Grades: 12

This course immerses students in novels, plays, poems, and short stories from various periods. Students will read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and discussions to assess and improve their skills and knowledge. This course places special emphasis on reading comprehension, structural and critical analysis of written work, literacy, vocabulary, and recognizing and understanding literacy devices.

All AP students must be successfully participating in one of the English courses required for graduation by the Johnsonburg School System during the evaluation portion of the AP course. AP Literature and Composition will be conducted at a schedule controlled by the school's administration.

Academic English

Credits: 1

- Grades: 12

This course is comprehensive in nature, concentrating on the basics of grammar, or expression, and an analysis of Western literature. This course of study will enhance their English language skills. Advanced Academic English instruction will be conducted at a schedule controlled by the school's administration

Applied English 4

Credits: 1

- Grades: 12

This course of study will develop and extend reading and language arts skills in a lab environment for all students scheduled for enrollment.

English III

Credits: 1

- Grades: 11

This course is comprehensive in nature, concentrating on the basics of grammar, composition, oral expression, and an analysis of English Literature. This course of study will encourage and enable interested and willing students to enhance their English Language skills.

English III instruction will be conducted at a schedule controlled by the schools administration.

English II

Credits: 1

- Grades: 10

This course is designed for sophomores and will include the study of American literature, grammar concepts, and communication skills. A survey of American literature will begin with the writings of early settlers of American colonies and continue to contemporary writers. Students will read novels, plays, short stories, and poems. The grammar section will deal mainly with usage with a concentration on student-created papers. Communication skills will be developed by different types of writing--research, expository, and creative, as well as through the study of vocabulary, listening, and speaking.

English I Credits: 1

- Grades: 9

This course is designed to develop student's understanding of literature and improve students' writing abilities.

8th Grade Language Arts Credits: 1

- Grades: 8

Students will accomplish goals in the reading/literature disciplines including fluency in individualized reading, vocabulary development, word attack skills, research skills, reading multiple genres, evaluation/discussion of literature, main idea and supporting details, homophones, synonyms, antonyms, analogies, propaganda/persuasion, explanatory and informational writing.

8th Grade Reading/Writing Credits: 1

- Grades: 8

This course of study will develop and extend reading and language arts skills for all students scheduled for enrollment.

7th Grade Language Arts Credits: 1

- Grades: 7

This course is designed to prepare students for future English courses and improve already existing skills in written expression.

7th Grade Reading/Writing Credits: 1

- Grades: 7

This course of study will develop and extend reading and language arts skills for all students scheduled for enrollment.

7th Grade Career Exploration Credits: 0.25

- Grades: 7

This course will introduce the student to library procedures and the process used to locate information at most libraries. Location of the specific non-fiction categories and fiction using the Dewey Decimal System of Library Cataloging will be the basis of the instruction. Internet or alternative information sources will follow. Along with the study of the library the classes will explore the use of the library while investigating various careers. Materials in the form of books, pamphlets, and internet sources for exploration of various careers are available. Students will be able to use the library to locate significant career information from training, education, salaries, high school and college course requirements, and occupational outlook predictions.

Social Studies

AP Psychology Credits: 1.25

- Grades: 12

This course is the study of human behavior, emphasis on behavior and cognitive development. It is an academically oriented class giving students a more in-depth look at the study of psychology than the regular psychology class. The students will be required to meet the demands of the regular psychology class and the AP class.

Psychology

Credits: 1

- Grades: 12

This course is the study of human behavior, emphasis on behavior and cognitive development.

POD/Econ

Credits: 1

- Grades: 12

This course is subdivided into two parts. In POD, the class reviews the three branches and levels of government. In addition, there is extensive debate and discussion on political and constitutional issues. From the economic standpoint, the course covers supply/demand, inflation, and the circulation of money throughout the economy.

World Cultures

Credits: 1

- Grades: 11

World Cultures is a survey course covering world history beginning in the 1500's and continuing into modern time. This course is designed for the eleventh grade.

US History III

Credits: 1

- Grades: 10

This course of study is a continuation of United States history that begins in eighth grade with the discovery period. This course is designed for the tenth grade student with prerequisites of United States History I and United States History II. American History III is a topically covered course which begins with the WWII era and continues to current times.

US History II

Credits: 1

- Grades: 9

This course is a continuation of the study of our nation's history, which begins, in the eighth grade addressing the period from discovery through the Civil War. A thematic approach is used for this course to focus on the time from Reconstruction to World War II. Cause and effect relationships are emphasized within the context of the social, political and economic arenas.

US History I/PA Civics

Credits: 1

- Grades: 8

This course is subdivided into two parts. The history content covers American History (emphasis PA history) from the Native American civilizations to the Civil War. The civics content emphasizes the legislative, executive, and judicial branches.

World Geography

Credits: 1

- Grades: 7

This course is designed as an introduction to the understanding of the relationships between people, places and environments over time. The five themes of geography: location, place, human environment interaction, movement and regions, form the basis of the course. World Geography is available for students in the seventh grade who have successfully completed sixth grade social studies.

Mathematics

AP Calculus

Credits: 1.25

- Grades: 12

The AP Calculus course is designed for students who desire to attain college credit for college. Topics include functions, limits and continuity, differentiation, applications of differentiation, integration, exponential and logarithmic functions, and applications of integration.

Calculus/Statistics

Credits: 1

- Grades: 12

This course is designed for students who have successfully completed the mathematics curriculum sequence through Trigonometry. It is offered with two goals in mind. The first goal is to use calculus as a review of the prerequisite courses' objectives. The second goal is to introduce the basic concepts of Calculus, the limit, differentiation and integration in a precise manner to clearly define and demonstrate some of its applications.

Pre-Calculus

Credits: 1

- Grades: 11, 12

This is a one credit class offered to juniors and seniors who will be taking Calculus. The course involves the analysis of various mathematical functions, such as linear, polynomial, trigonometric, etc. The use of the graphing calculator will be stressed throughout this course. Students taking this course should have had a high degree of success in Algebra II and Geometry.

Advanced Math/Trigonometry

Credits: 1

- Grades: 11,12

This is a one credit academic course offered to juniors and senior who are intending to attend a post-secondary institution. This course studies the properties of triangles as well selected topics in analytic geometry. Students taking this class should have taken Algebra II and Academic Geometry.

Academic Geometry

Credits: 1

- Grades: 10, 11

This course is recommended for those students who have successfully completed Algebra II with at least a C or higher. One (1) math credit toward graduation is awarded to all students in grades nine through twelve.

Geometry Concepts

Credits: 1

- Grades: 10, 11, 12

This course is an informal approach to basic topics found in a standard plane geometry course. Emphasis will be placed on using geometry to solve everyday problems related to surface areas, volumes, ratios and proportions, special right triangle properties as well as an informal look at the properties of geometric shapes and figures. Theorems from geometry will be used without the aid of proofs.

Consumer Mathematics

Credits: 1

- Grades: 11, 12

This course is designed to develop skill in the four basic mathematics operations in a business-related environment. Problems address such issues as checkbook records, purchasing, wages and deductions, borrowing and saving money and home-ownership.

Algebra II

Credits: 1

- Grades: 9,10

This course is a review and an extension of Algebra 1. Many of the same topics will be discussed and expanded upon. This course is intended for students who have demonstrated mastery of the Algebra I curriculum. It is strongly recommended that students must have had a C average or higher in Algebra I. Algebra II is extremely intensive and students must be prepared to move at a rapid pace. By the end of the course, the students should be able to solve and graph linear inequalities; solve systems of equations and inequalities; evaluate expressions containing negative and/or rational exponents; solve quadratic, exponential, rational, radical, and absolute-value equations; and work with matrices. Also, time depending, we will work with logarithmic functions and conic sections.

Algebra II Concepts

Credits: 1

- Grades: 10, 11

This course is a continuation of Applied Algebra I. The course reviews and expands on the concepts of linear functions and solving systems of linear equations. By the end of the course, students will learn to work with matrices, compute probabilities, factor polynomials, and learn about exponential, quadratic, polynomial, and rational functions. Included will be connections to geometry and statistics. A graphing calculator will be used occasionally to enhance certain topics.

Algebra I

Credits: 1

- Grades: 8, 9, 10

This course is designed for those students from grades seven through twelve who have successfully completed foundation work in general mathematics and Pre-Algebra successfully. Students should consider taking this course prior to taking Geometry.

Algebra I A/B

Credits: 1

- Grades: 9, 10

This course covers introductory Algebraic, Geometric, and Statistical topics. Emphasis is placed on the application of math to solve real-world applications. The course is structured to accommodate students who have trouble mastering concepts and may need more practice. Material is introduced more slowly than in Algebra I. By the end of this course, students should be able to write and analyze algebraic expressions and equations, perform all operations on rational numbers, solve and graph linear equations and inequalities, find probabilities, compute area and volume, and use applied statistics to create and interpret graphs and plots. Time permitting we will cover further geometric topics including similarity and proportional reasoning and the Pythagorean Theorem. The use of a scientific calculator is encouraged for most topics in this course.

Pre- Algebra

Credits: 1

- Grades: 7, 8

This course covers introductory Algebra and Geometry topics. In addition to reviewing math basics such as decimals, fractions, ratios, percents, and probability, the students will learn to perform operations using exponents and integers. Students will learn how to write and analyze algebraic expressions, solve multi-step equations and inequalities, and graph linear equations. Geometric topics will include computing area and volume, similarity, and the Pythagorean Theorem. Although calculators will be permitted in this course, it is very important that the student become proficient and confident in their computational skills.

8th Grade Math

Credits: 1

- Grades: 8

This course is designed for those students who have successfully completed the seventh grade course. Emphasis will be placed on the pencil/paper calculations with calculators only being used when deemed appropriate by the instructor. Students will practice using the four operation keys for fractions, decimals, and percents, as well as square root and exponent keys.

7th Grade Math

Credits: 1

- Grades: 7

This course is designed for those students who have successfully completed the sixth grade course. Emphasis will be placed on the pencil/paper calculations with calculators only being used when deemed appropriate by the instructor. Students will practice using the four operation keys for fractions, decimals, and percents, as well as square root and exponent keys.

Science

AP Chemistry

Credits: 1.25

- Grades: 11, 12

AP Chemistry is a two semester academic course available to students who have successfully completed Chemistry I and Algebra I. This course is designed to mimic a general chemistry course that is usually taken during the student's first year of college. Successful completion of the AP Chemistry Exam at the conclusion of the course will nominate the student for advanced placement (to be determined by a college admissions board).

Organic Chemistry

Credits: 1

- Grades: 11, 12

Organic Chemistry is a one credit academic course available to students who have successfully completed Chemistry I and Chemistry II. In accordance to PA State Standards, this course introduces the fundamentals of organic chemistry, such as molecular structure and nomenclature, and then proceeds into the cutting-edge field of organic synthesis and pharmaceutical design. This course is designed to prepare students for an entry-level college organic chemistry course.

Chemistry II

Credits: 1

- Grades: 11, 12

Chemistry II is a one credit academic course open to students who have successfully completed Chemistry I. This course provides more in-depth investigation of topics in Chemistry I while introducing new concepts and applications according to PA State Standards. Instructional techniques involve lecture, inquiry-based activities, and hands-on laboratory experiments.

Chemistry I

Credits: 1

- Grades: 10, 11, 12

Chemistry I is a one credit academic course open to students in grades ten through twelve. It is designed to introduce the major concepts and applications of chemistry according to PA State Standards, and to prepare students for an entry-level college chemistry course. Instruction primarily involves lecture, inquiry-based activities, and hands-on laboratory experiments.

Physics

Credits: 1

- Grades: 11, 12

Physics is one credit class meant for academic juniors or seniors. Physics studies the underlying patterns common in all natural phenomena. Students taking Physics should have successfully completed Algebra II. A prior knowledge of trigonometry is also helpful.

Human Biology

Credits: 1

- Grades: 11, 12

This course in Human Biology is an elective course for juniors and seniors who have successfully completed General Biology and Chemistry I. Students electing this course should have a keen interest in the structure and function of the body. This course would be useful to students who may be planning on pursuing a career in the health care field such as in nursing, pharmacy, or related fields.

The text, Human Biology, by Sylvia Mader will introduce the student to the basics of the anatomy and physiology of the human body. All body systems are presented.

The text also applies basic biological principles to practical human concerns. Ecological and health concerns will be a focus for each system. This text may be used at the college level; we will not be able to cover this text in its entirety. We will cover as much as possible, but we will allow class time for some laboratory activities. Our course will begin with introductory topics and will likely omit topics which were covered in General Biology or would be included in Environmental Science. Course direction will be based on student needs and interest.

Environmental Science

Credits: 1

- Grades: 10, 11, 12

Statement of purpose and Organization: This course in Environmental Science is offered as an elective to those students who have successfully completed a one credit course in General Biology. Most likely the class will be comprised of Juniors and Seniors, although some Sophomores may elect this course as well. The text is Environmental Science: A Study of Interrelationships by Eldon D. Enger and Bradley F. Smith. The theme of the course is the interrelatedness of environmental science. Of course, this is especially true when we consider the interrelations between humans and the natural world. From that perspective, it is necessary to include both aspects when considering environmental problems and their solutions. It is necessary to have a historical perspective as well as to appreciate the impact of politics and economics on environmental issues. Our study covers five main areas. Time constraints will not allow us to cover all topics. Our syllabus will begin from part One and will cover as much as possible. Selected chapters may be omitted; chapter order may be modified, based on student's interests.

Advanced Biology

Credits: 1

- Grades: 11,12

Biology II is a course offered as an elective to those Juniors and Seniors who have achieved a high level of success and have maintained a high level of interest in General Biology. As a continuation of principles learned in General Biology, we will expand out knowledge with the use of the text, Biology: Concepts and Connections by Campbell, Reece, Mitchell, Taylor.

As this book covers basic biological principles, its focus is to connect to other areas of natural science, the social sciences and the humanities. This scope allows for many applications of biology in our everyday lives.

General Biology

Credits: 1

- Grades: 9,10, 11, 12

Statement of Purpose and Organization: General Biology is a required course for sophomores in the Academic track. Freshmen who have a strong interest in science and who have been highly successful in science may elect to take General Biology during their freshman year.

Advanced Earth & Space

Credits: 1

- Grades: 10, 11, 12

Advanced Earth & Space Science is an elective academic course that seeks to deepen the students' understanding of the Earth's natural system and of the cosmos by continuing and building upon the 9th Grade Earth Science course. Several of the essential physical and chemical laws that are used in the Earth and Space Sciences will be explained, and strong emphasis will be placed on the disciplines of astronomy, oceanography, and meteorology (including climatology). Students will be provided a basic understanding of remote sensing, and current topics in the Earth & Space Sciences will be included. Students will also be encouraged to examine man's influence on the planet, and to develop an awareness of need for continued research in these fields.

Applied Science

Credits: 1

- Grades: 10, 11, 12

The Applied Science course is designed for the non-academic students, Grades 10 – 12, and shall provide scientific instruction in the fundamentals of the physical, chemical, and other natural sciences and how these apply to many modern technologies. Thus, a strong emphasis will be placed on the practical understandings and applications of basic scientific principles to every day topics such as technology, agriculture, weather, health, the environment, etc. It will be designed to be a useful, practical course.

8th Grade Integrated Science

Credits: 1

- Grades: 8

This class is designed as the second half of a two year preparation in science for the middle school student prior to entering high school and is to be taken in the 8th grade.

7th Grade Integrated Science

Credits: 1

- Grades: 7

This course is designed for those students who have completed 6th grade and are beginning their junior high education in preparation for the high school science curriculum.

Business

Accounting II

Credits: 1

- Grades: 11

Accounting Two provides students with further skills to build a mastery of the principles learned in the first year course. It also acquaints students with methods used in a variety of business situations. The course will include such phases as payroll records, tax returns, accounting for adjustments, and partnership accounting.

Accounting I

Credits: 1

- Grades: 10

This introductory course introduces the student to the basic principles of accounting which enables one to handle his/her own business affairs. Topics such as keeping records for federal and state income tax purposes, balancing expenses with one's income, and investing in property or business are covered. The basic accounting cycle is repeated several times throughout the course, building each time with new aspects that would be required in the various types of business organizations. Students will compare and contrast proprietorships, partnerships, and corporations.

Vocational Agriculture

Vocational Agriculture IV

Credits: 2

- Grades: 12

Vocational Agriculture IV students will utilize the skills and techniques they have learned from their previous Vocational Agriculture classes to successfully develop and implement their SAE projects for maximum efficiency and benefit. Successful completion of Vocational Agriculture I, II, and III are the prerequisites.

Vocational Agriculture III

Credits: 2

- Grades: 11

Vocational Agriculture III encompasses concrete masonry, building and construction, basic home electrical wiring, and small gas engines. Students will have the opportunity to explore the building trades in preparation for an occupation or continuing education in one of the building trades fields. There will also be a continuation of forestry, sawmill and skid-steer operation and some rudimentary math and English preparation in regards to PSSA testing. Successful completion of Vocational Agriculture I and II are the prerequisites.

Vocational Agriculture II

Credits: 1

- Grades: 10

Vocational Agriculture II encompasses forestry and logging practices, chainsaw safety and operation, tree identification, wood construction, welding and aquaculture. Students will have the opportunity to explore various jobs in the forest industry, learn basic welding skills and explore the production of raising fish, water quality and wildlife identification and conservation. There will also be some rudimentary math and English preparation in regards to PSSA testing. Successful completion of Vocational Agriculture I is the prerequisite.

Vocational Agriculture I

Credits: 1

- Grades: 9

Vocational Agriculture I is the introductory class to all vocational agriculture classes. There is a major emphasis on FFA, a nationally recognized student oriented organization. Students will develop an SAE (Supervised Agricultural Experience) project that they will pursue through out this year and following years in vocational agriculture

classes. Students will learn about forestry, conservation, aquatics, and wildlife. There is no prerequisite.

Foreign Language

French IV

Credits: 1

- Grades: 12

Further development of skills acquired in French II leads to the development of language competence at an advanced-intermediate level. Students listen and converse with more understanding. Manipulation of grammar is stressed, concentrating on the recognition and use of not only the present tense, but also several past tenses, and the future tense as well. More attention is placed on the reading and writing of French. Students will explore and discuss cultural similarities and differences in French-speaking countries. In addition, students will compare French with other Romance languages, and will identify similarities among Latin-based languages.

French III

Credits: 1

- Grades: 11, 12

Further development of skills acquired in French II leads to the development of language competence at an advanced-intermediate level. Students listen and converse with more understanding. Manipulation of grammar is stressed, concentrating on the recognition and use of not only the present tense, but also several past tenses, and the future tense as well. More attention is placed on the reading and writing of French. Students will explore and discuss cultural similarities and differences in French-speaking countries. In addition, students will compare French with other Romance languages, and will identify similarities among Latin-based languages.

French II

Credits: 1

- Grades: 10, 11, 12

Further development of skills acquired in French I lead to the development of language competence at an intermediate low level. Students listen and converse with more understanding. Manipulation of grammar is stressed, concentrating on the recognition and use of not only the present tense, but also several past tenses, and the future tense as well. More attention is placed on the reading and writing of French.

French I

Credits: 1

- Grades: 9, 10, 11, 12

This introductory course is aimed at helping students gain control of oral French and develop their ability to listen to and speak French at a novice level. The course is also aimed at developing a cultural insight of the people and countries where French is the principal language. Primary emphasis is placed on listening and speaking. Secondary emphasis is placed on the ability to manipulate grammatical structures.

Spanish IV

Credits: 1

- Grades: 12

This course is intended to instruct students in the Spanish language and culture. The focus is on enriching advanced vocabulary structures including perfect and progressive and subjunctive tenses as well knowledge of Spanish culture.

Spanish III

Credits: 1

- Grades: 11, 12

This course is intended to instruct students in the Spanish language and culture. The focus is on creating an advanced vocabulary in the present, preterit, imperfect, future and conditional tenses as well as enriching knowledge of Spanish culture.

Spanish II

Credits: 1

- Grades: 10, 11, 12

This course is intended to instruct students in the Spanish language and culture. The focus is on enhancing and creating a functional vocabulary in the present, preterit, imperfect and future tenses and knowledge of Spanish culture.

Spanish I

Credits: 1

- Grades: 9, 10, 11, 12

This is an introductory course intended to instruct students in the Spanish language and culture. The focus is on creating a functional, present tense vocabulary for basic communication and knowledge of Spanish culture.

World Languages

Credits: 0.25

- Grades: 7

This introductory course is aimed at exposing the student to a variety of foreign languages, and also to the whole concept of communication. Special emphasis will be placed on French and Spanish, the two languages offered at JHS. This course will help a student make a more educated choice about language study in their freshman year. As many as 10 languages will be explored, as well as the culture of the country, and the contributions to English from that language.

Physical Education

Physical Education

Credits: 0.5

- Grades: 7, 8, 9, 10, 11, 12

This co-educational program is designed to meet the interests, needs, and developmental patterns of the individual student. Emphasis is placed on knowledge of and an opportunity to develop skills in sports and activities of a fitness and recreational nature. It is intended for each student to understand the relationship between physical activity and a healthy lifestyle

8th Grade Health

Credits: 0.5

- Grades: 8

This course is designed to integrate current health science and social concepts to direct students toward responsible, healthy behavior and positive relationships.

Junior Health

Credits: 0.5

- Grades: 11

This course is designed to provide students with the knowledge and skills necessary to promote a high level of wellness. Topics discussed include, but are not limited to, physical, mental/emotional, and social health, body systems, drug abuse, diseases and disorders, safety and emergency care, nutrition, and consumerism.

Art

Three Dimensional (3D) Art

Credits: 1

- Grades: 9, 10, 11, 12

This course is a combination of hands-on opportunities, art history, appreciation, and criticism of three dimensional media and techniques. The class will stress the basic techniques for sculpture presentations, modeling carving, and assemblage (casting will be touched upon). The basics of ceramic hand- building, pinch, coil, slab, and finishing techniques will be explored.

Two Dimensional (2D) Art

Credits: 1

- Grades: 9, 10, 11, 12

Students in Two-dimensional Art will learn new skills and build on skills and experiences provided in Introduction to Art. This course will include a concentration on drawing and a variety of two-dimensional; media. The course is designed for those students who wish to continue to study art for personal growth as well as students planning a career in art. Students will keep a sketch journal in which they will complete drawing assignments, record items for future projects, written assignments and self-evaluation.

Crafts

Credits: 1

- Grades: 9, 10, 11, 12

This course will cover traditional and nontraditional crafts with the production of both functional and aesthetic products. Historical and cultural crafts and techniques will be presented with an emphasis on craftsmanship. Projects will be presented allowing for new individual approaches being applied to historical craft techniques.

Introduction to Art

Credits: 1

- Grades: 9, 10, 11, 12

This is an introductory course in the visual arts, covering history, appreciation, criticism, and production. The basic elements, principles, and vocabulary of art will be presented and manipulated through the use of a variety of two and three dimensional media and techniques. An understanding of how history affected art, a working artistic vocabulary, and an ability to verbalize about the visual arts will also be covered.

7th Grade Art

Credits: 0.5

- Grades: 7

This course presents an overview of the visual arts, beginning with an introduction to the elements and principles of art continuing with hands on experimenting of the elements and principles. Art history and cultural diversity will be addressed with appropriately designed units.

Music

Band

Credits: 0.5

- Grades: 7, 8, 9, 10, 11, 12

The band members will meet during the multi purpose period. This class will be covering all types of instrumental music. Students will be required to attend rehearsals and to practice the music that is given out. The student will be required to attend the concert.

9th Grade General Music

Credits: 0.5

- Grades: 9

The class will cover music and history from the Classical age to the present. Various composers who have been influential in their time will be studied. Musical examples will be played in order to reinforce the student's recognition of the time periods. Reports on the composers will be written with the students orally presenting these to the class. Various videos on the composer's lives will be played. A final will be given on the selections that have been covered. (Ex. Classical to 50's) Students will present current day music articles. Students may earn extra credit by giving reports on music.

7th Grade General Music

Credits: 25

- Grades: 7

The class will cover the areas instrumental music and vocal music. Students will study how each of the instruments evolved over the years and how present day music incorporates these instruments. Students will also be required to put together a Karaoke project. This project will be requiring students to stage and sing their own "mini" productions. The students will then be recorded for their final grade. This performance is then stored in the students folder. Extra credit will be in the form of the presentation weekly of music articles

Computer

Computer Language Application III

Credits: 1

- Grades: 11, 12

This course is designed to build on the concepts learned in Computer Applications II. Students will use advanced features of Microsoft Office (including Word, Excel, Access, Publisher and PowerPoint) and continue to create web pages using HTML and Dreamweaver. Macromedia Flash will also be introduced. Students will be able to select and apply the appropriate software to solve complex problems. The major emphasis is on projects that incorporate technology into all aspects of everyday life.

Computer Language Application II

Credits: 1

- Grades: 11, 12

This course is designed to build on the concepts learned in Computer Language Applications I. Students will again use Microsoft Office (including Word, Excel, Access, Publisher and PowerPoint) and continue to create web pages using HTML and Macromedia Dreamweaver. The major emphasis is on projects that incorporate all aspects of Microsoft Office into real world experiences.

Computer Language Application I

Credits: 1

- Grades: 10, 11, 12

This course of study will develop and extend language arts skills using office applications and computer technology to assist, reinforce, and facilitate growth. The course is offered in a lab environment for all students scheduled for enrollment.

9th Grade Computer

Credits: 0.25

- Grades: 9

This course will introduce the student to Microsoft Word, Microsoft Excel, and Microsoft PowerPoint. In Microsoft Word the students will be able to keyboard and type modified block style letters, tables, and unbound reports on the computer as well as some basic computer applications, such as identifying icons, changing margins, changing line spacing, moving and copying text, centering vertically and horizontally. In Excel students will be able to create and edit a spreadsheet, enter formulas, and create and enhance a pie chart. In PowerPoint students will be able to present a slideshow with an appropriate speech/talk.

8th Grade Computer

Credits: 0.25

- Grades: 8

The course will introduce the student to Microsoft Word, Microsoft Excel, and Microsoft PowerPoint. In Microsoft Word the student will learn a continuation of the skills obtained in 7th grade computer. In Excel students will learn to create and edit a spreadsheet and write advanced formulas. In PowerPoint students will be able to create a slideshow incorporating text, graphics, sounds, music, and transitions between slides.

7th Grade Computer

Credits: 0.5

- Grades: 7

The course will introduce the student to Microsoft Word, Microsoft Excel, and Microsoft PowerPoint. In Microsoft Word the student will learn to keyboard and type basic documents on the computer. The student will also be introduced to some basic computer applications, such as identifying icons, changing margins, changing line spacing, moving and copying text, centering vertically and horizontally. In Excel students will learn to create and edit a spreadsheet and write basic formulas. In PowerPoint students will be able to create a slideshow incorporating text, graphics, and sounds

Home Economics

Food and Nutrition

Credits: 1

- Grades: 11, 12

Foods and Nutrition teaches the importance of healthful eating and wellness. It features innovations in food technology, math and science concepts, appreciation of diverse cultures, and motivation to explore careers in the food field. Learning to recognize the relationship between diet and disease should be a concern for everyone. Maintaining health and fitness throughout one's life is the goal for this class.

Baking Skills

Credits: 1

- Grades: 10, 11, 12

This course is a comprehensive study of the world of baking using traditional and nontraditional methods of preparation. It will allow for time of study of the scientific principles which determine the outcomes of the numerous items to be prepared and tasted. It also will include basic skills and practices related to measurement, sanitation, safety, etc.

Family Living

Credits: 1

- Grades: 9, 10, 11, 12

This course is designed to help students to foster the skills that create strong families. It will include not only building and strengthening family ties now and in their future, but encourages their looking inward to achieve personal qualities such as character, honesty and self-discipline. Becoming an all-around better person and citizen is the goal of the course.

Child Development

Credits: 1

- Grades: 9, 10, 11, 12

This semester long, one credit class, is designed to have students acquire effective parenting skills. By learning about development throughout the childhood years, they will be able to provide children with the nurturing needed for them to reach their potential. It will also assist them in the family's providing the best possible environment to insure maximum growth in the areas of education, social/emotional development, intellectual stimulation, and physical health and safety.

Clothing Construction

Credits: 1

- Grades: 9, 10, 11, 12

This one credit, one semester class is designed to help students to look and feel their best due to increased knowledge of how to use clothing to improve their appearance. The principles of design and color can highlight and enhance a person's features. The course also provides valuable consumer skills, prepares students for possible careers and gives practical advice in the areas of safety, repair and alteration, and proper maintenance of resources.

Family and Consumer Science Rotation

Credits: 0.25

- Grades: 8

This nine week rotation class consists of three small units designed to give the students exposure to a variety of areas which are a part of the Family and Consumer Science department. Since the students haven't had FACS before, we don't pursue any area in great depth; instead it is more of an exploratory course.

Child Development is studied to give the students some useful background information and skills to help them with caring for children, now as a babysitter and in the future as a parent or caregiver to others' children. We concentrate on safety for both the students and the young child, whether it is in the area of play or basic care techniques.

Snack Preparation is another mini-unit covered. Since this age of student is only beginning to work in the kitchen we focus on acquiring basic skills and making wise, nutritious choices in the snacking area.

A third exploratory effort is constructing a simple pillow project using both hand and machine skills. The students practice using math and measuring, following written and verbal directions, watching and then doing skills taught by demonstration, references, samples, etc. The end result is a pillow that they can take home after self- and teacher evaluations

Wood

Wood IV

Credits: 1

- Grades: 12

The Wood Design IV unit of instruction is developed for those students who have successfully completed the pre-requisite courses of Wood Design I, II, and III.

Participation of this course will consist of the students working with the full inventory of the woodworking lab environment. Various specific shop machines, processes, supplies, and materials are at the disposal of the students. Teacher intervention will be at a minimum, and should be only as a resource. Students will perform complex methods of woodworking and will express personal pride of their skills and abilities. Project plans will be detailed to suit the needs of the student and the instructor. Long range planning and organizational skills are mandatory to become successful. The students are responsible for developing project plans for their project. Specific criteria must be adhered to, and each student will be expected to complete their goals. They will work on these individual projects of their choosing, and one that best fits their talent, skills, and knowledge base.

Wood III

Credits: 1

- Grades: 11, 12

The Wood Design III course of instruction is a presentation on the combination of the shop machine processes to develop more complex methods of construction and assembly. Using the various lab machines, the students must apply these methods of construction to a student oriented project from a design of their choosing. Through research and Internet applications, the students will use these project plans as a guideline for success. All project plans must have a detailed section of project parts with designated sizes. A complete list for a bill of materials is essential for the construction process. The students will be responsible for all criteria necessary for hardware

applications and any other related materials. All project plans must meet with instructor approval.

Wood II

Credits: 1

- Grades: 10,11,12

The Wood Design II unit of instruction is a sequential course of woodworking available to the students to continue learning from a previous knowledge base of Wood Design I. The participation consists of a more detailed level of presented materials, processes, techniques, machine capabilities and utilization's. The students will perform more complex construction methods of woodworking. Major emphasis is expressed and placed on personal pride of our own skills and abilities. Long range preparation and organizational skills are needed to become successful in the completion of a major project; therefore a complete understanding of patience is beneficial. The students are responsible for the development of project plans for the student-oriented projects. This will serve as a guideline for student success.

Wood I

Credits: 1

- Grades: 9, 10, 11, 12

Wood Design 1 instruction is the initial course following the 8th grade rotational class. Here the students are introduced to a more in depth look at the classroom activities, processes, techniques, machines, and safety standards. Each student will be instructed on the individual lab equipment.

There is a required project at this level so the students will develop an understanding of the machine functions and their capabilities. The safe proper use and the care of the equipment are essential for classroom success, while developing respect for personal safety as well as respect for our fellow classmates. With the project, the students will be directed on specific techniques required for daily participation.

The students will participate in the development of project plans. Specific criteria will be introduced which will promote student success that best fits their talent and knowledge base.

Tech Drawing

Credits: 0.5

- Grades: 9

The Tech Drawing course of instruction is offered to present a basic foundation to communication through visual means. The students will be exposed to Orthographic Projections of a Top, Front, and Right Side view of a given object. Incorporated in these simple views will be the introduction and implementation of Hidden Lines to complete the drawings. Once the basic concept of visualization has been established, the students will be given an Isometric Object to which they must create the same Top, Front, and Right Side Views with Hidden Lines. The standard practice of Orthographic Projection format will be followed. To complement this initial instruction, the students will be placed in the computer lab to be exposed to the Auto Cad program of computer aided drafting. With guided instruction, the students will be taken through step by step on the basic commands of Auto Cad. The students will then use these simple yet powerful commands to create the Orthographic views. Instruction of Isometric drawing with new commands will be practiced after the Orthographic section. The students will

be given a multi-view drawing and they will be asked to produce the Isometric view. Dimensioning techniques will be presented along with the implementation of Hidden Lines.

8th Grade Rotation

Credits: 0.25

- Grades: 8

This rotational course is designed to introduce the students to the general wood shop routine. The students will experience the operation of the shop machines while working on an individual assigned student project. The introduction on the safe and effective use of the specific machinery will convey the purpose of each individual piece of equipment. A step by step sequence of machining the stock will produce the proper finished product for the student use. The students will participate in the lab environment under close supervision following all safety standards related to the machines. The proper procedures in the safe operation of the shop machines will give the students an insight and understanding of the machine capabilities and their intended uses relating to the wood technology industry.

Metal

Advanced Metal

Credits: 1

- Grades: 10, 11, 12

Advanced Metal is a follow up of intro to metal. Students receive a much more in depth look at the skills that are necessary to be a machinist. Students have the freedom of creating projects utilizing the tools and materials that they have already learned how to use. A major emphasis is placed on safety and skills that are necessary to find employment as a machinist or machine operator. The students may choose to use less equipment through this course but get more proficient at each machine. Tolerances are expected to be much tighter as the quality of work should also improve.

Introduction to Metal

Credits: 1

- Grades: 9, 10, 11, 12

Intro to metal is an introductory class in the metal working field with a major emphasis on machine shop skills. Students are required to complete a number of projects throughout the year until the teacher has ascertained the students have the ability to create and complete projects of their own design. Safety and safe working conditions are a major part of every day. Students become well versed in the nomenclature and operation of all the machines in the shop.

8th Grade Metal

Credits: 0.25

- Grades: 8

8th grade metal shop is an introductory class in metalworking using tools and techniques that might be encountered around the home. A major emphasis is placed on safety. Students work on individual and group projects and are made aware of the impact metal has on our lives and the way we live.

Advanced Drafting

Credits: 1

- Grades: 11,12

Advanced drafting looks at the use of working drawings, assembly drawings and design processes. Students draw much more challenging drawings with extreme accuracy to detail. Students have the ability to create design prototypes or refine an existing design. Students will be able to read a map and create a map using a transit, compass, and GPS (Global Positioning System). Students will also start 3d modeling and using lisp programs.

Introduction to Drafting

Credits: 1

- Grades: 10, 11, 12

Intro to drafting is an introduction into the field of drafting. Students learn to draw on a computer using techniques and concepts that will reinforce skills students learned in tech drawing. A more in-depth look at orthographic projection (multi-view), sectional and auxiliary views. Creating a symbol library, using blocks, multiple layers and an introduction to lisp files. Students create a floor plan following a budget and using energy conserving ideas.

Additional Requirements

Leadership Theory

Credit: 0.5

- Grades: 10

The course will introduce students to the qualities and characteristics that successful global leaders have in all areas of society including politics, science, the arts, medicine, religion, and sports. The course will identify these qualities and identify ways that the student can apply those qualities to their lives to help them become successful leaders. The course is conducted in a lab environment.

Safety Education

Credits: 0

- Grades: 10

Safety Education is a thirty hour course offered to tenth graders. The class is designed to introduce students to the world of driving, to make them aware of the rules and regulations that govern the HTS and their responsibilities when they get behind the wheel.

Senior Graduation Project

Credits: 0.5

- Grades: 12

Students will be involved in many self directed activities. These activities may include- but are not limited to developing and presenting a Florida Brochure, writing and presenting a research paper about a career or life issue, preparing and participating in an interview and preparing and presenting a 3 ½ minute speech on a major life issue

Programs of Study

1. Academic
2. Business
3. Occupational Prep
4. Vocational Agriculture

Graduation Requirements

Planned instruction and planned courses in several academic areas are designed to provide our students with a rigorous and challenging curriculum. Successful completion of school courses, participation in the Keystone Exams, and instruction in each series will be considered evidence that the student has demonstrated achievement of the exit outcomes. Students must earn a minimum of 24 credits in order to graduate and must complete 4 credits in English, 4 credits in Social Studies, 3 credits in Math, and 3 credits in Science.

In addition to achieving the exit outcomes, seniors are required to complete 44 hours of community service and to complete a Graduation Project in order to graduate. This project must be done under the supervision of a teacher or an Administrator.

The project may consist of the following parts: (1) filling out a job application and preparing for and participating in an interview, (2) building a portfolio, and (3) formulating a paper and/or project for presentation. Resources to be utilized are technology, books, and people. Students with an Individual Education Program (IEP) may opt to graduate in accordance with the appropriate governing regulations.

ACADEMIC ASSESSMENTS

Johnsonburg Area High School has developed the following schedule for testing/assessing our students' performance at strategic grade levels:

Grade 7

- ◆ Pennsylvania School Assessment Profile for Reading, Mathematics
- ◆ Study Island Benchmark

Grade 8

- ◆ Pennsylvania School Assessment Profile for Reading, Mathematics, and Writing
- ◆ Study Island Benchmark

Grade 10

- ◆ SAT and ACT available but not mandatory
- ◆ PSAT

Grade 11

- ◆ Pennsylvania System of School Assessment (PSSA) Profiles for Reading, Mathematics, and Writing
- ◆ Armed Services Vocational Aptitude Battery (ASVAB)
- ◆ PSAT, SAT, and ACT tests available but not mandatory

Grade 12

- ◆ SAT and ACT are available but not mandatory
- ◆ PSSA retest for the students that are required

Additional educational/psychological testing is available through the school psychologist with parental permission.

PSSA

The Pennsylvania System of School Assessments (PSSA) are important for graduation purposes and they are also used as criterion for opportunities for students in the school's curriculum.

Students not scoring proficient or advanced on the PSSA exams may be required to take specially designed courses aligned to the PSSA math and reading anchors.

ADVANCED PLACEMENT COURSES

Advanced Placement (AP) courses are offered to juniors and seniors who are planning to attend college. AP courses require extra instructional time by the student. AP grades are weighted.

ON-LINE COURSES

On-line courses are available at the high school if the course is not offered. Approval from the administration is needed to take on-line courses.

Johnsonburg Area High School



Curriculum Guide

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