

REDBANK VALLEY JR.-SR. HIGH SCHOOL
COURSE DIRECTORY
2017-2018



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Course Name: Agricultural Engineering & Environmental Resource Management A**Grade(s): 10 11 12****Course Length: 1 year****Credits: 1.0****Prerequisite(s):**

Agricultural Science

Description: This course is designed to reinforce material covered in agricultural science as well as introduce students to the technical aspects of agricultural engineering and environmental resource management. Topics that will be covered will include Forestry, Resource Conservation, Orienteering, Power Woodworking and Construction, Electric Arc Welding, MIG Welding, and use of the Oxyacetylene torch. Students have the opportunity to gain leadership and career skills by participating in FFA activities. (This course is offered every other year.)

Course Name: Agricultural Engineering & Environmental Resource Management B**Grade(s): 10 11 12****Course Length: 1 year****Credits: 1.0****Prerequisite(s):** Agricultural Science

Description: This class is designed to reinforce material covered in Agricultural Science as well as introduce students to aspects of agricultural engineering and environmental resource management. Topics that will be covered include Air and Water Quality, Meteorology, Waste Management, Small Engine Maintenance and Repair, Electrical Wiring and Masonry. Students will have the opportunity to gain leadership and career skills by participating in FFA activities. (This course is offered every other year.)

Course Name: Agricultural Science**Grade(s): 09 10 11 12****Course Length: 1 year****Credits: 1.0****Prerequisite(s):** None

Description: Students in this course will be introduced to environmental resource management, food and fiber technology, agricultural engineering and technology. Units covered will include soil, water and wildlife management, processing, packaging and marketing agricultural products, workplace safety and safe operation of woodworking equipment. Students will complete laboratory exercises including construction of wood projects, soil and water testing as well as many others. Students will have the opportunity to develop leadership skills through participation in FFA activities.

Course Name: Equine & Large Animal Science**Grade(s): 09 10 11 12****Course Length: One Year****Credits: 1.0****Prerequisites:** None

Description: Equine and Large Animal Science will provide students with an overview of the horse and livestock industry. Species covered will be horse, beef, sheep, swine and dairy. Topics covered will include: Genetics, Reproduction, Biotechnology, Breed Identification, Selection, Judging, Feeding, Housing, Diseases, Parasites, Training, and Marketing. Students will have the opportunity to participate in local, regional, and state competitions and may earn additional credit by completing a FFA supervised agricultural experience related to horse or livestock production and management. The curriculum for this class will be activity based. Students will have the opportunity to gain leadership experience by participation in FFA activities.

Course Name: Horticulture 1/2**Grade(s): 09 10 11 12****Course Length: Semester****Credits: 0.5****Prerequisite(s):** None

Description: This course will be offered during the spring semester only. Topics covered in this class include how plants grow and plant propagation through a variety of methods. Students will perform routine greenhouse management practices such as seeding, transplanting, and watering. Salesmanship practices will be covered and students will gain experience in retail greenhouse sales. Plant identification will be covered for plants grown in the greenhouse. Students will have the opportunity to gain leadership and career skills by participating in FFA activities.

Course Name: Horticulture Science I**Grade(s): 09 10 11 12****Course Length: 1 year****Credits: 1.0****Prerequisite(s):** None

Description: This course is designed to give students a general overview of the horticulture industry with a scientific background in all aspects of the field. Topics that will be covered include, plant propagation, media, nutrients, fertilizers, growth regulators, biotechnology and pest management. Students will perform a variety of greenhouse management tasks, build hydroponic units, conduct research experiments, design plantings, and demonstrate salesmanship and record keeping skills. Students will also design and construct evergreen wreaths. Students will have the opportunity to develop leadership and career skills through FFA activities.

Course Name: Horticulture Science II & III**Grade(s): 10 11 12****Course Length: 1 year****Credits: 1.0****Prerequisite(s):** Horticulture Science I

Description: This course is designed as a continuation of Horticulture Science I, to give students a more in depth experience in the horticulture industry. Greenhouse, nursery, landscape and floral design topics will be covered. Students will perform administrative functions, propagate plants, perform maintenance operations and sell crops. Students will have the opportunity to earn a private pesticide applicator license and develop leadership and career skills.

Course Name: Landscape Design

Grade(s): 09 10 11 12 Course Length: Semester Credits: 0.5 Prerequisite(s): None

Description: The class will consist of landscape material identification through slides, pictures, and walking tours to observe materials used. Students will follow the steps of the design process to develop a Master Landscape Plan for various sites, using principals of design and universal design symbols. Students will develop a maintenance schedule for each design. The course will be taught in a lecture and lab setting. Students will primarily draw designs, but with the available computer software, students may also project designs to a mature view. Students will have the opportunity to gain leadership and career skills by participating in FFA activities.

DEPARTMENT: Business/Computers

Course Name: Accounting 1

Grade(s): 10 11 12 Course Length: 1 year Credits: 1.0 Prerequisite(s): None

Description: This course will outline the basic concepts of financial accounting used in service and merchandising businesses. Students will understand and apply the accounting principles and procedures beginning with the analysis of business transactions, through the recording process of the accounting cycle, and to the final preparation of financial statements. Both manual and computer-based applications will be used.

Course Name: Accounting 2

Grade(s): 11 12 Course Length: 1 year Credits: 1.0 Prerequisite(s): C or better in Acct. 1

Description: This course reinforces skills learned in Accounting 1, while adding new topics such as management account, cost accounting, not-for-profit accounting and financial accounting. Students will apply accounting concepts in real world business situation presented throughout the course.

Course Name: Website Design

Grade(s): 09 10 11 12 Course Length: Semester Credits: 0.5 Prerequisite(s): None

Description: This course will outline the basic concepts of website design. Students will discover through research and instruction the recommended conventions for layout and design of a website. Students will learn to create websites using HTML.

Course Name: Advanced Website Design

Grade(s): 10 11 12 Course Length: Semester Credits: 0.5 Prerequisite: C or better in Website Design

Description: This course is designed for students who have an interest in website design. Students will enhance their website design techniques and skills through the study of advanced coding. Each student will create one major site of his/her own interest.

Course Name: Desktop Publishing 1-4 / Yearbook

Grade(s): 10 11 12 Course Length: 1 Year Credits: 1.0 Prerequisite(s): Multimedia recommended

Description: This class provides the basic to advanced procedures needed to use and produce pages for a complete school yearbook. Students learn design, desktop publishing, and photo editing skills. Students are required to utilize word processing, basic computer, and, proofreading skills. It is necessary to demonstrate or have an eye for creativity. Marketing skills will be used to sell the yearbook. All aspects of digital photography will be used. Students will learn how to scan, edit, and crop pictures.

Course Name: Sports & Entertainment Marketing

Grade(s): 10 11 12 Course Length: Semester Credits: 0.5 Prerequisite: None

Description: This course will outline the basic concepts for students to begin thinking like business professionals. Students will learn the key components of a business plan, discover the role technology plays in the development and operation of small businesses through a sports and entertainment focused simulation.

Course Name: **Microsoft Office 1**

Grade(s): **09** (10-12 due to transfers or failures) Course Length: **Semester** Credits: **0.5** Prerequisite: None

Description: This course provides the credentials needed to efficiently use an integrated software suite. Students should take this course to become proficient in using word processing, spreadsheet, database and presentation software. Microsoft Office meets the graduation requirement for Computer Applications.

Course Name: **Microsoft Office 2**

Grade(s): **10 11 12** Course Length: **Semester** Credits: **0.5** Prerequisite: C or better in MS Office 1

Description: This course provides the advanced skills needed to produce projects using the Microsoft Office suite that are school and work related.

Course Name: **Multimedia**

Grade(s): **09 10 11 12** Course Length: **Semester** Credits: **0.5** Prerequisite: None

Description: Multimedia will provide the student with the opportunity to explore various media resources. Students will learn how to design projects using text, images, sound, and video. Students will develop necessary skills to produce a variety of multimedia projects.

Course Name: **Google Docs**

Grade(s): **09 10 11 12** Course Length: **Semester** Credits: **0.5** Prerequisite: None

Description: This course will allow users to create and edit documents online while collaborating in real-time with other users. It is a collection of applications that make it easier to produce the kinds of files commonly used in corporate environments: documents, spreadsheets, and presentations. In this google course, you will be given a basic introduction on how to use Google Docs. Topics covered in this course include: Google collaboration and the sharing of information online, Good Documents, Google Spreadsheets, Google Forms, Google Presentations and Google Sharing and other tips on how to use Google Docs.

Course Name: **Personal Finance**

Grade(s): **11 12** Course Length: **Semester** Credits: **0.5** Prerequisite: None

Description: This course will inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets utilizing checking and saving accounts, gain knowledge in finance, debt and credit management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions leading to financial independence.

Course Name: **Career Options**

Grade(s): **10 11 12** Course Length: **Semester** Credits: **0.5** Prerequisite(s): None

Description: Students will gain valuable knowledge about themselves, schooling, and work places. Hands on training to research and apply to colleges/universities and entry level jobs. Interview skills, soft skills, work ethics, and office & computer skills will be discussed and effectively used. Goals of Course: Students will gain insight about their skills and personality type. Determine which path is applicable and research the career path. Narrow their career choices and learn all about the career and schooling. Complete an application for an entry level job and/or a college. Research entry level job requirements, college requirements, and/or military options. Successfully complete an interview. Establish a career portfolio.

Course Name: **Cooperative Education (Co-op)**

Grade: **12** Course Length: **1 year** Credits: **1.0 – 3.0** Prerequisite(s): Teacher Approval, Maintenance of "C" GPA, Application /Interview

Description: This class includes, but is not limited to: career awareness, job readiness skills, and hands-on work experience. Students will attend morning classes then be released to work site training for the afternoon. Students must meet with the Cooperative Education teacher at the end of their Junior year. The job must be related to the student's future goals. Seasonal jobs are not eligible for this program. This program may only begin at the start of the school year.

DEPARTMENT: Family & Consumer Sciences (Home Economics)

Course Name: **Child Development**

Grade(s): 10 11 12 Course Length: 1 Year Credits: 1.0 Prerequisite: None

Description: This course outlines the stages of development pre-birth to adulthood. Healthy practices including proper nutrition and parenting skills are covered. The students have the opportunity to use robotic infants to simulate the responsibilities of being a parent.

Course Name: **Foods and You**

Grade(s): 9 10 11 12 Course Length: Semester Credits: 0.5 Prerequisite: None

Description: This elective is designed to help students build a strong foundation in wise food choices. With an emphasis on nutrition, students develop basic competencies in family food planning, purchasing, and preparation.

Course Name: **Methods of Cookery**

Grade(s): 9 10 11 12 Course Length: Semester Credits: 0.5 Prerequisite(s): Foods and You

Description: This course strives to familiarize the student with the latest technology in foods. The emphasis is on preparation techniques as applied to microwaving, outdoor cooking, and regional and ethnic foods, while strengthening consumer awareness.

DEPARTMENT: Fine Arts (Art & Music)

Course Name: **Art 1**

Grade(s): 09 10 11 12 Course Length: Semester Credits: 0.5 Prerequisite(s): Art 7 & Art 8

Description: This course is designed to give the student an idea of what is involved in an art elective course. Students will implement art techniques that can be used for drawing, painting, printmaking, and design projects. Students will be exposed to and tested on historical art events, vocabulary, and artists, while expressing constructive criticism and aesthetic views towards art that they view in group critiques.

Course Name: **Art 2**

Grade(s): 10 11 12 Course Length: 1 year Credits: 1.0 Prerequisite(s): C or better in Art 1

Description: This course is designed to focus the student on the elements of art. Line, color, shape, space, value, texture, and form will be the objectives to follow for each of their individual projects. Students will review material from Art 1 and be exposed to and tested on historical art events, vocabulary, and artists not mentioned in Art 1. Students will also be expressing constructive criticism and aesthetic views towards art that they view in group critiques.

Course Name: **Art 3**

Grade(s): 11 12 Course Length: 1 year Credits: 1.0 Prerequisite(s): C or better in Art 1 and Art 2

Description: This course is designed to focus the student on the principles of art. Balance, variety, harmony, emphasis, proportion, movement, rhythm, and unity will be objectives to follow for each of their individual projects, while still incorporating the elements on art practiced in Art 2. Students will review material from Art 1 and Art 2 and will be exposed to and tested on historical art events, vocabulary, and artists not mentioned in Art 1 and Art 2. Students will also be expressing constructive criticism and aesthetic views towards art that they view in group critiques. Time will also be given to produce two art projects of the artist choice enabling the student total art expression.

Course Name: **Art 4**

Grade(s): 12 Course Length: 1 year Credits: 1.0 Prerequisite(s): C or better in Art 3

Description: Art 4 is designed to prepare the serious art student for experiences in a collegiate art based curriculum. Students will work on individual projects in various mediums and areas such as drawing, design, painting, printmaking, sculpture, ceramics, airbrush, and photography. Projects will follow the theme of the artist's own interests and creations. The goals of the course are as follows: 1. To further explain and demonstrate art mediums for all projects 2. To enhance the students experiences in the areas of history, production, criticism, and aesthetics of art 3. To encourage students to carry out various techniques, processes, and skills in their artwork 4. To create a complete portfolio from the 10+ projects done in class.

Course Name: Music Technology 1

Grade(s): 10 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** None

Description: This course consists of an introductory overview of various music technologies that concern present day musicians. Topics discussed include: Computer proficiency, MIDI, computer based music notation, sequencing, composition, music evaluation, music and the internet, music form and style, and current trends in music technology. Students will compose music using various formats and film and edit music videos.

Course Name: Piano Class

Grade(s): 09 10 11 12 **Course Length:** Semester **Credits:** 0.5 **Prerequisite:** None

Description: In this course students will learn the basics of playing the piano, including reading music, technical skills, and posture. Students will each have a keyboard in which to practice the skills that are taught to the group. In addition, students will be directed individually as their skills develop.

Course Name: Senior High Band

Grade(s): 09 10 11 12 **Course Length:** 1 year **Credits:** 1.0* or 0.5 **Prerequisite(s):** Junior High Band

Description: Introduces students to various types of music, including all musical styles of band. Students will develop an understanding of music and how it integrates into all other subject areas. Diverse aspects of music performance will be discussed such as: tempo, rhythm, dynamics, tone, quality, and articulation. Practice techniques, efficient use of time, and basic motivation will be stressed. From this class, students have the opportunity to advance to higher levels such as district chorus/band and regional chorus/band. This course may be repeated for additional credit. * This class may be taken for .5 credit (every other day all year) if the student is also taking Senior High Chorus (.5) or a Science lab during the same period.

Course Name: Select Choir or Select Band

Grade(s): 9 10 11 12 **Course Length:** 1 year **Credits:** 1.0 or 0.5 **Prerequisite(s):** Admission by approval of director.

Description: This small group of singers, dancers or musicians will have the opportunity to perform more challenging music. This group will go beyond the Senior High Chorus or Band to learn additional songs. From this class, students have the opportunity to advance to higher levels such as district chorus/band and regional chorus/band. They would prepare to perform for various events within the community. This course may be repeated for additional credit.

Course Name: Senior High Chorus

Grade(s): 09 10 11 12 **Course Length:** 1 year or Semester **Credits:** 1.0 or 0.5 **Prerequisite(s):** none

Description: Students will have the opportunity to perform various styles of music ranging from folk, pop, and foreign language pieces. Diverse aspects of music performance will be discussed such as: tempo, rhythm, dynamics, tone, quality, and articulation. From this class, students have the opportunity to advance to higher levels such as district chorus and regional chorus. Students will be graded each nine weeks, based on participation and audition. This course may be repeated for additional credit.* This class may be taken for .5 credit (every other day all year) if the student is also taking Senior High Band (.5) or a Science lab during the same period.

Course Name: Senior High Chorus / Band

Grade(s): **09 10 11 12** Course Length: **1 year or Semester** Credits: **1.0 or 0.5** Prerequisite(s): Chorus-none/ Band-Junior High Band

Description: **Chorus** -Students will have the opportunity to perform various styles of music ranging from folk, pop, and foreign language pieces. Diverse aspects of music performance will be discussed such as: tempo, rhythm, dynamics, tone, quality, and articulation. From this class, students have the opportunity to advance to higher levels such as district chorus and regional chorus. Students will be graded each nine weeks, based on participation and audition. This course may be repeated for additional credit.* This class may be taken for .5 credit (every other day all year) if the student is also taking Senior High Band (.5) or a Science lab during the same period. **Band** - Introduces students to various types of music, including all musical styles of band/chorus. Students will develop an understanding of music and how it integrates into all other subject areas. Diverse aspects of music performance will be discussed such as: tempo, rhythm, dynamics, tone, quality, and articulation. Practice techniques, efficient use of time, and basic motivation will be stressed. From this class, students have the opportunity to advance to higher levels such as district chorus/band and regional chorus/band. Students will be graded each nine weeks, based on participation and audition. This course may be repeated for additional credit.

DEPARTMENT: Health/Physical Education/Driver's Training

Course Name: **Health 8**

Grade(s): **8 & 9** Course Length: **9 Weeks** Credits: **0** Prerequisite(s): None

Description: This course is designed to give the student a working knowledge of individual wellness. Course content includes personality and self-esteem, anatomy and basic physiology, human sexuality, consumer health, and CPR. Students will also be involved in a study of addictive substances and how they affect high school students and their families. Through the completion of this course, the student will gain a working knowledge of how to take a healthy look at their own lives. This first level of Health must be passed in grade 8 or taken in grade 9 for no credit.

Course Name: **Health 11**

Grade(s): **11** Course Length: **Year** Credits: **0.5** Prerequisite(s): None

Description: This health course is designed to place an emphasis on problems that most often affect the healthy life of young adults. Course content includes units on stress, mental disorders, preventing violence, family living, pregnancy and birth, CPR, first aid, infectious and non-infectious diseases, food and nutrition, and choosing health care. Completion of this course will give the student vital information on how to avoid certain health problems and how to maintain a good attitude about their own health and that of their present and future families.

Course Name: **Adaptive Physical Ed (Co-ed)**

Grade(s): **09 10 11 12** Course Length: **Year** Credits: **0.5** Prerequisite(s): Medical, social, or psychological situations that warrant the waiver of the regular physical education curriculum.

Description: The adaptive physical education course is designed to meet the special needs of those students who are limited in any way in their capacity to participate in the normal physical education class. The major emphasis is placed on lifetime sports requiring moderate activity. Such sports as golf, archery, bocce, bowling, horseshoes, badminton, basketball, and other similar sports are explored. Each student must submit a doctor's prescription of activity to be followed by the teacher.

Course Name: **Physical Education 9 & 10**

Grade(s): **09 10** Course Length: **Year** Credits: **0.5** Prerequisite: None

Description: The emphasis of the physical education course is two fold: (1) to promote overall physical fitness through daily exercise, and (2) to instruct the students in the skills needed for team sports. In all phases of our program, we stress sportsmanship and strict adherence to the rules. Emphasis on this level of physical education is based on team sports such as softball, volleyball, basketball, flag football and soccer. Students will participate in individual sports such as fitness, track and field, handball, and weight training. Through participation, the student will gain a working knowledge of rules, as well as techniques involved with each sport or activity. Repetition of skills will enable students to improve their own level of competition. The student will experience the atmosphere of low level competition, while being involved in quality activities which will help gain a good level of fitness.

Course Name: **Physical Education 11 & 12**

Grade(s): **11 12** Course Length: **Year** Credits: **0.5** Prerequisite: None

Description: Redbank Valley physical education philosophy is based on the three educational domains – Psychomotor, Affective, and Cognitive. These domains are applied through behavioral terms of mental and social and physical aspects of the following areas of major concentration: soccer, team handball, volleyball, basketball, physical fitness, indoor games, softball, lacrosse, handball, recreational games, and drug and alcohol education.

Course Name: Driver Theory I

Grade: 10 Course Length: 18 Weeks Credits: 0.25 Prerequisite: None

Description: During the course, students are given instructions on state laws of our highways, as well as driving techniques, automobile maintenance, upkeep, and the costs involved in keeping an automobile running and road safe. Knowledge gained from classroom work can be employed to behind the wheel application.

DEPARTMENT: Language Arts

Course Name: Academic English 9

Grade(s): 09 Course Length: 1 year Credits: 1.0 Prerequisite(s): C or better in prior English Course

Description: This course is designed to give the students exposure to a large variety of genres while enhancing their writing and communication skills. The major genres covered are Shakespearean literature, poetry, short stories, non-fiction, and modern writings. Students will show language arts proficiency in reading different genres, writing in different mediums, and communication skills through presentations as well as small and large group discussions. This course will be geared more toward college-bound students.

Course Name: Applied English 9

Grade(s): 09 Course Length: 1 year Credits: 1.0 Prerequisite(s): None

Description: This course is designed to give the students exposure to a large variety of genres while enhancing their writing and communication skills. The major genres covered are Shakespearean literature, poetry, short stories, non-fiction, and modern writings. Students will show language arts proficiency in reading different genres, writing in different mediums, and communication skills through presentations as well as small and large group discussions. This course will be geared more toward career oriented students.

Course Name: Academic English 10

Grade(s): 10 Course Length: 1 year Credits: 1.0 Prerequisite(s): C or better in prior English Course

Description: This English course covers American literature from the Puritan era of the 1600's through the mid-twentieth century. The course of study is lineal, following the natural progression of history, including the most influential works and authors of each period. There is an emphasis on reading comprehension and open-ended responses, as well as literary analysis and critical essay writing. The course also includes completion of a research project.

Course Name: Applied English 10

Grade(s): 10 Course Length: 1 year Credits: 1.0 Prerequisite(s): None

Description: This English course covers American literature from the Puritan era of the 1600's through the mid-twentieth century. The course of study is lineal, following the natural progression of history, including the most influential works and authors of each period. There is an emphasis on reading comprehension and open-ended responses, as well as literary analysis and critical essay writing. The course also includes completion of a research project.

Course Name: Academic English 11

Grade: 11 Course Length: 1 year Credits: 1.0 Prerequisite(s): C or better in prior English Course

Description: This class is an integrated study of literature, writing, vocabulary, grammar and usage. The focus of all activities is the development of critical thinking and communication skills. Literature units are thematically grouped around core pieces of British literature, supplemented with selections from other cultures. Cooperative learning and group activities, as well as a great deal of writing, are primary methods of instruction. Students will be expected to utilize appropriate technology, such as the Moodle, to further their 21st century literacy. Designed for college-bound students, this course also includes an introduction to SAT strategies, career exploration, and the college application process.

Course Name: Applied English 11

Grade: 11 Course Length: 1 year Credits: 1.0 Prerequisite(s): None

Description: This class is an integrated study of literature, writing, vocabulary, grammar, and usage. The focus of all activities is the development of critical thinking and communication skills necessary to become a productive member of the working world. Cooperative learning, group activities, and writing are primarily methods of instruction. Projects and presentations completed individually, as well as with groups, are also used to prepare students for real-world experiences.

Course Name: Honors English 11

Grade: 11 Course Length: 1 year Credits: 1.0 Prerequisite(s): Teacher recommendation; at least a B in previous year's English 10 class; desire for accelerated study of English; completion of an application and writing example; and department approval.

Description: Honors English 11 is an advanced course, designed for pre-college students. It is an accelerated extension of Academic English 11 (see above). This course is for those students who demonstrate a serious commitment to the study of literature and writing. Intensive, independent reading and writing will be required, such as a summer reading project.

Course Name: AP English Literature and Composition

Grade: 11 12 Course Length: 1 year Credits: 1.0 Prerequisite: At least a B in the previous year's English class and department approval.

Description: AP English Literature and Composition is designed to be a college level course. Students will read literature ranging from the sixteenth century through today, including several different genres. Higher levels of writing will also be required. Students should expect a rigorous English experience with intellectual challenges and a considerable workload, including summer work. Students will have the option to take the AP English Literature and Composition Exam in May. By earning a 3 or higher on the exam, the student will be awarded college credit, accepted at most colleges and universities.

Course Name: Academic English 12

Grade: 12 Course Length: 1 year Credits: 1.0 Prerequisite(s): C or better in prior English Course

Description: The main goal of this course is to help students become creative, critical thinkers and prepare for continuing education. All assignments and lessons are created with this goal in mind. The work in Senior English is geared toward the following areas: communication skills (formal and informal); standard English usage; basic writing skills; research; and literature. Group work is an integral part of this course, as is the completion of projects.

Course Name: Applied English 12

Grade: 12 Course Length: 1 year Credits: 1.0 Prerequisite(s): None

Description: The main goal of this course is to help students become creative, critical thinkers and prepare themselves for entry into the work field and/or continuing education. All assignments and lessons are created with this goal in mind. The work in Senior English is geared toward the following areas: communication skills (formal and informal); standard English usage; basic writing skills; and literature. Also explored is a full and complete job unit. Students will complete a resume, cover letters, applications, as well as other practical career related assignments.

Course Name: Honors English 12

Grade: 12 Course Length: 1 year Credits: 1.0 Prerequisite(s): 1) Teacher recommendation; 2) earned at least a B in eleventh grade English; 3) desire for accelerated study of English; and 4) English department approval

Description: Honors English 12 is a challenging, pre-college course which focuses on an intensive study of literature and writing. An example of this would be a summer reading list. This course is an accelerated extension of Academic English 12. Units that include extensive research and oral presentations on the Holocaust and a current topic of debate are also included.

Course Name: Broadcast Journalism 1

Grade(s): 10 11 12 Course Length: Semester Credits: 0.5 Prerequisite(s): Instructor Approval

Description: Instruction that is clearly connected to today's modern world is vital to student engagement. This introductory study of broadcast journalism aims to analyze and use mass media communication. Instruction will begin in the area of media literacy by examining messages that come to us through mass media. As a natural class progression, we will move more toward a hands-on, production based curriculum model. A primary aim of the course is to prepare students to produce/operate RVTV, Redbank Valley School's daily news program.

Course Name: Broadcast Journalism 2&3

Grade(s): 10 11 12 **Course Length: 1 year** **Credits: 1.0** **Prerequisite(s):** Completion of Broadcast Journalism I
Description: The purpose of this course is for students to continue to develop proper filming techniques, lighting, video capture, and video editing. Students will be learning all aspects of creating a news broadcast. Students will be reading, writing, and producing pieces about current events within school, local, and national parameters. Students will be required to film school activities during school as well as after hours. Students will rotate production assignments each week. The primary objective for this course is to develop and produce RVTV, a daily, student-run news program.

Course Name: Journalism I

Grade(s): 9 10 11 12 **Course Length: 1 year** **Credits: 1.0** **Prerequisite(s):** Instructor approval
Description: This is a product-oriented course designed to develop students' skills in writing, critical reading, computer applications, time management, and development and design. Students will receive extensive instruction in all the above as well as basic elements of newspaper publishing. The journalism student also receives plenty of one-on-one instructor time to help to develop his/her individual writing voice.

Course Name: Journalism 2

Grade(s): 10 11 12 **Course Length: 1 year** **Credits: 1.0** **Prerequisite(s):** Successful completion of Journalism I
Description: This is a product-oriented course designed to develop students' skills in writing, critical reading, computer applications, time management, and development and design. Students will receive extensive instruction in all the above as well as basic elements of newspaper publishing. The journalism student also receives plenty of one-on-one instructor time to help to develop his/her individual writing voice. Journalism 2 students will be asked to produce more than Journalism I.

Course Name: Journalism 3 & 4

Grade(s): 11 12 **Course Length: 1 year** **Credits: 1.0** **Prerequisite(s):** Successful completion of Journalism II for Journalism III or Journalism III for Journalism IV

Description: This is a product-oriented course designed to develop students' skills in writing, critical reading, computer applications, time management, and development and design. Students will receive extensive instruction in all the above as well as basic elements of newspaper publishing. Journalism III & IV students will play a larger role in the class, such as editor, lay-out editor, picture editor, creating the front page, and submitting information to the local newspaper for This Week at RVHS. Students will be required to submit at least one submission of their choice to any local newspaper or magazine.

Course Name: Speech

Grade(s): 09 10 11 12 **Course Length: Semester** **Credits: 0.5** **Prerequisite(s):** None
Description: This class is designed to help students effectively communicate ideas, procedures, and opinions. It focuses on how to structure and organize thoughts or ideas in a way that audiences can easily follow. Students will formulate ideas and provide research that supports and reinforces these ideas or opinions. Throughout the course, students will be guided through various types of speeches, becoming articulate communicators. They will be involved in lessons on how communication affects our lives, the process of communication, listening skills, interpersonal communication, building confidence, structuring speeches, choosing effective language, speech delivery, and speaking to inform and/or persuade an audience. This is a performance oriented class designed to help students become eloquent communicators who speaks with confidence, deliberate nonverbal communication, and a fluent structure.

DEPARTMENT: Mathematics

Course Name: Practical Math Skills

Grade(s): 11 **Course Length: 1 year** **Credits: 1.0** **Prerequisite:** None
Description: In Practical Math Skills, students will study and review mathematical skills they can apply in their future careers and for life after high school. The first semester will focus on job related topics; these include details on jobs, wages, paychecks, deductions, taxes, insurance, and transportation. The second semester will focus on life after high school topics. Students will learn about personal finances, checking and savings accounts, loans and credit, automobile, and housing expenses.

Course Name: Pre-Algebra

Grade(s): 9 10 11 12 **Course Length: 1 year** **Credits: 1.0** **Prerequisite:** Current teacher recommendation.

Description: This course is designed to help the student attain the necessary skills needed to succeed in basic Algebra.

Course Name: **Academic Algebra 1**

Grade(s): **09 10 11 12** Course Length: **1 year** Credits: **1.0** Prerequisite(s): Pre-Algebra

Description: Academic Algebra covers all the topics required to meet local and national testing and curriculum guidelines. The course reinforces material from previous math courses and prepares students for future math study.

Course Name: **Academic Algebra 2**

Grade(s): **09 10 11 12** Course Length: **1 year** Credits: **1.0** Prerequisite(s): Grade of C or better in Academic Geometry.

Description: This course amplifies and extends the topics learned in Algebra I and Academic Geometry. Practice and mastery is gained in the fundamental topics of Algebra - equations, graphs, basic techniques of solving word problems, percent, ratio, exponents. New topics include complex numbers with non-zero imaginary parts, radical equations, variable exponents, and systems of nonlinear equations. Logarithms and absolute value inequalities are also introduced. This course provides the mathematical background needed for success in advanced science and math courses.

Course Name: **Keystone Algebra**

Grade: **09** Course Length: **1 year** Credits: **1.0** Prerequisite: Did not prove Proficiency on Keystone Exam in 8th grade

Description: This class will be focused on the Keystone Algebra 1 standards for those students who did not pass the Keystone Exam in 8th grade. It will also serve as a transition class for next year, until we can get the majority of our students taking Algebra 1 in 9th grade instead of 8th grade.

Course Name: **Academic Geometry**

Grade(s): **9 10 11 12** Course Length: **1 year** Credits: **1.0** Prerequisite(s): Grade of C or better in Algebra 1

Description: The first semester deals with Geometry, where the emphasis is on mathematical structure and critical thinking. The proving of theorems and solving triangles is stressed. The second semester deals with the Advanced Algebra concepts used in Chemistry and Physics. Sophisticated word problems, solving systems of equations, and advanced graphing and logarithms are included – along with an introduction to Trigonometry and complex number systems.

Course Name: **Academic Trigonometry/Pre-calculus**

Grade(s): **11 12** Course Length: **1 year** Credits: **1.0** Prerequisite(s): Grade of C or better in Academic Algebra 2

Description: In this course, the student continues the practice of the fundamental skills of algebra and trigonometry and geometry. Throughout the year, they will study logarithms, trigonometric identities, infinite series, conic sections, matrixes and determinants, echelon solutions, and exponential functions. Similar polygons with emphasis on scale factor are studied, and congruent polygons are studied as a subset of the set of similar polygons. Much emphasis is placed on abstract word problems. With few exceptions, this course should prepare a student for calculus.

Course Name: **Academic Calculus**

Grade: **12** Course Length: **1 year** Credits: **1.0** Prerequisite(s): Grade of C or better in Academic Trigonometry/Pre-Calculus

Description: This course is designed for students who desire a good foundation for college calculus. It includes an intensive review of the topics from algebra, trigonometry, and analytic geometry that are necessary for success in calculus. Technology is included where appropriate and labs incorporate real life problems and skills. The course includes coverage of the essential topics normally taught in the first two semesters of a three semester college calculus sequence (differential and integral calculus).

Course Name: **Consumer Math 12**

Grade: 12 Course Length: 1 year Credits: 1.0 Prerequisite(s): This course is not appropriate for students who have successfully completed Algebra 2, Trigonometry, Calculus, or any other upper division math courses

Description: This math course includes a good review of arithmetic for the individual, the earner, and the consumer. It is also the last mathematics many of the students will have; therefore we try to teach basic principals and apply them to practical problems. Students will work with basic algebra and geometry, as well as coping with everyday problems such as checking accounts, banking, taxes, insurance, etc. **Emphasis will be placed on meeting the Pennsylvania standards.**

Course Name: **Probability and Statistics & Problem Solving**

Grade: 12 Course Length: 1 Year Credits: 1.0 Prerequisite(s): Passing grade in Algebra 2

Description: This course is designed to provide the student with a comprehensive treatment of introductory statistics and probability. The nature and importance of statistics and probability will be discussed. Major areas of statistics and probability will be identified, compared, and studied. This course will concentrate on collecting, analyzing, interpreting, and applying statistics in various areas such as sociology, business, ecology, economics, education, medicine, psychology, and mathematics. Problem solving has been defined as what to do when you don't know what to do. The basis for this class is the teaching and learning of strategies that people in the work place, in their homes, in the shopping mall, on vacation, or wherever, use when solving problems. Students will learn general, wide-ranging strategies for solving problems. From the general format, they will develop and apply specific problem-solving strategies, communication skills, and attitudes.

This course will not be conducted as a typical or traditional math class. Students will use their books and each other as much as, or more than, the teacher as sources of information. Students will be primarily working in group situations to make conjectures, express ideas, and ask questions to solve problems while learning to collaborate with other people. Students will be expected to verify and evaluate their own work and the work of others in class. They will learn to become analytical and critical thinkers.

Course Name: **AP Statistics**

Grade: 12 Course Length: 1 Year Credits: 1.0 Prerequisite(s): Students must have successfully completed Algebra 2 before enrolling in AP Statistics

Description: The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

DEPARTMENT: Science

Course Name: **Ecology**

Grade: 09 Course Length: Semester Credits: 0.5 Prerequisite(s): None

Description: This course includes an overview of ecosystem interactions and relationships occurring among all levels of ecological organization, the impacts of living and nonliving factors affecting both terrestrial and aquatic ecosystems. It will also including a detailed look at the transfer of energy and matter throughout an ecosystem, ecosystem response after a disturbance, and population dynamics.

Course Name: **Physical Science 9**

Grade: 9 Course Length: 1 year Credits: 1.0 Prerequisite(s): None

Description: Students are introduced to chemistry and physics concepts, such as matter, atoms, the Periodic Table, chemical reactions, solutions, acids, bases, forces, motion, heat, and waves. Investigative techniques are used to give the student a basis for developing skills needed for more advanced classes such as biology, chemistry and physics. This class provides important groundwork for future Keystone science exam courses. Math is emphasized.

Course Name: **Academic Biology 1**

Grade: 9 Course Length: 1 year Credits: 1.0 Prerequisite(s): Grade of C or better in prior class

Description: Students should expect to utilize critical thinking skills in various aspects of biology. Emphasis will be placed on

the study of life as it originates at the cellular level. Starting with an introduction to biochemistry and discussion of what constitutes life, students will enter the study of cell biology in terms of structure and processes. Following will be an extensive look into genetics and biotechnology, fields highly relevant to medicine, agriculture, and many other aspects of today's world. Finally, students will be introduced to the theory of evolution, especially in reference to changes in past and modern species by natural selection. Classification and a survey of the various kingdoms and their corresponding phyla will follow as time permits. Coursework and evaluation will include cooperative learning activities, homework, lab work, projects, and chapter tests. This course includes a lab period every other day in addition to the regular class period.

Course Name: Keystone Biology

Grade(s): 10 11

Course Length: Semester

Credits: 0.5

Prerequisite(s): None

Description: In this course, students will be expected to master the eligible content outlined in Module A and Module B of the Pennsylvania Department of Education's "**Keystone Exams: Biology Assessment Anchors and Eligible Content.**"

Course Name: Senior High Applied Science

Grade: 10 11 12

Course Length: 1 year

Credits: 1.0

Prerequisite(s): None

Description: Applied Science 10 is a general senior high science course designed to prepare students for the Chemistry Keystone exam. It also emphasizes problem solving, critical thinking, and provides students with skills to solve real world problems.

Course Name: Environmental Science

Grade: 11 12

Course Length: 1 year

Credits: 1.0

Prerequisite(s): None

Description: The scope of the environmental science class is to expand upon topics learned in the biology and ecology courses (grades 9 or 10); through class discussions and projects, hands on activities (both in the classroom and the local environment), and real world problem solving. Major emphasis will be placed on Pennsylvania ecosystems and organisms. This course will foster a positive connection between the students and their environment (locally, statewide, nationally, and internationally)

Course Name: Applied Biology 1

Grade: 10

Course Length: 1 year

Credits: 1.0

Prerequisite(s): None

Description: This course deals with the basic principles of biology. Topics include cell structure and function, cell reproduction and inheritance, ecology and environmental biology, and a survey of the five kingdoms. Cooperative learning, research, and writing are emphasized.

Course Name: Academic Biology 2

Grade(s): 11 12

Course Length: 1 year

Credits: 1.0

Prerequisite(s): Academic Biology 1

Description: Students will build on their understanding and recollection of Biology I coursework. Biology is defined as the study of life. Therefore, students will start by studying the organization of life, the diversity of life, cells and cell division. Students will then study photosynthesis, cellular respiration, genetics, macromolecules, organic chemistry and evolution. Each topic will be covered in great detail.

Course Name: Acad. Physiology/Anatomy

Grade(s): 11 12

Course Length: 1 year

Credits: 1.0

Prerequisite(s): Academic Biology 1

Description: This college-prep course includes a detailed survey of the systems of the body with an emphasis on the following systems: skeletal, muscular, digestive, circulatory, respiratory, nervous, reproductive, and excretory. Studies will include both the structure and function of organs and systems. This course is offered every other year.

Course Name: Academic Chemistry 1 and Lab

Grade(s): 10 11 12

Course Length: 1 year

Credits: 1.0

Prerequisite(s): The student must have completed 2 years of academic high school mathematics with an average of 70% or better and be presently enrolled in a 3rd year academic mathematics course.

Description: In Chemistry – I focuses on the branch of Inorganic Chemistry. They will begin with topics such as measurements, atoms, molecules, chemical bonding and structures, nomenclature, as well as periodicity. They will then work through more math-based problem-solving topics such as chemical reactions and equations, stoichiometry, gas laws, and solutions. In this course, the students will also have the opportunity, through lab periods and lab reports, to apply concepts and techniques learned in class to relevant real-life and laboratory situations.

Course Name: Academic Chemistry 2 and Lab

Grade(s): 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** C or better for Chemistry 1 for the second semester.

Description: In Chemistry – II is centered around the branch of Inorganic Chemistry as well as have an introduction to Organic Chemistry. The students will begin by reviewing topics from chemistry I and then essentially continue where the first course stopped. They will learn topics such as solutions, acids and bases, equilibrium, reaction kinetics and energy, nuclear chemistry and oxidation-reduction reactions. They will then begin learning about Organic Chemistry which will include topics like nomenclature, bond-line drawings, functional groups, and S_N1 and S_N2 reactions. In this course the students will also have the opportunity, through lab periods and lab reports, to apply concepts and techniques learned in class to relevant real-life and laboratory situations.

Course Name: Organic Chemistry

Grade(s): 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** Successful completion of Chemistry 1 & 2 preferred with a 'B+' average

Description: This Organic Chemistry course is intended for students majoring in chemistry, chemical engineering, biology, or studying for careers in the health sciences such as pharmacy, medicine, veterinary, and chiropractic. Fall semester topics include: structure and bonding, acids and bases, alkanes and cycloalkanes, reaction energetics, stereochemistry, nucleophilic substitution and elimination, alkenes, alkynes, NMR and IR spectroscopy, alcohols, and introduction to multistep synthesis. Spring semester topics include: UV-visible and IR spectroscopy, mass spectrometry, aldehydes and ketones, carboxylic acids and derivatives, chemistry of aromatic compounds, and multistep synthesis.

Like academic chemistry, the Organic course will emphasize a strong conceptual understanding of chemistry, correct laboratory techniques, some quantitative problem solving, and critical thinking. Organic laboratory investigations by their nature are more difficult to carry out using high school lab facilities, but we will be in the lab as much as possible. While organic will not be as quantitatively rigorous as academic chemistry (not as math-oriented), it will require a more sophisticated understanding of the theory involved and a commitment to the finer details of the discipline. Despite the very rigorous nature of this course, I am confident that every student who applies a strong effort and devotes substantial time to the course can succeed in organic chemistry.

Course Name: Academic Physics 1

Grade(s): 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** Trig/Pre-calc

Description: Physics uses basic concepts, equations, theories and laws to describe the physical world. Concepts covered include motion, forces, work, energy, fluid mechanics, thermodynamics, sound, light, electricity, and magnetism.

Course Name: Academic Physics 2

Grade: 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** Physics 1 and the student must be taking an academic mathematics class, probably calculus

Description: Selected topics not covered in Physics 1 will be covered in Physics 2. Some advanced work on mechanics completes the course.

Course Name: U.S. History 9**Grade: 09 Course Length: 1 year Credits: 1.0 Prerequisite(s): Passing grade in seventh and eighth grade history**

Description: United States History 9 is a comprehensive study of the geographic, cultural, social, economic, and political developments in the United States, beginning with the Discovery of the Americas, Colonial America, the American Revolution, Westward Expansion, and ending with the Civil War. This program lays the groundwork for American History and paves the way for future understanding of how our history has shaped the United States of today.

Course Name: U.S. History 10**Grade: 10 Course Length: 1 year Credits: 1.0 Prerequisite(s): US History 9**

Description: U S History 10 is a comprehensive study of the geographic, cultural, social, economic and political developments in the United States during the period from about 1880 to the present. Not only does this program deal with the domestic aspects of our history, but special emphasis is concentrated on the 20th century international events as they relate to the U.S. and our world community.

Course Name: World History 11**Grade: 11 Course Length: 1 year Credits: 1.0 Prerequisite(s): US History 9 and US History 10**

Description: The focus of World History is the major civilizations of the past and their contributions to the world as they exist today – in aspects that range from the geographic to the social and political. Critical thinking should be emphasized in this course, with an emphasis on why particular civilizations developed where and when they did, why they became dominant, why they declined, and how they have continued to influence the development of human culture.

Course Name: Modern History 11**Grade: 11 Course Length: Semester Credits: 0.5 Prerequisite(s): None**

Description: Modern History 1980-today is a survey of the social, political, economic, cultural, and intellectual history of the United States and the World from 1980 to present day. The course will compare and contrast lifestyles of the 80's, 90's, and today. Other themes that will be addressed include: the evolution of terrorism, major US and World leaders, tragedies such as the Challenger explosion and Hurricane Katrina, as well as advancements in technology and a preview of what the future may hold.

Course Name: Holocaust, Genocide, and Human Rights**Grade: 11 Course Length: Semester Credits: 0.5 Prerequisite(s): None**

Description: This semester long course is designed to provide students with an intensive study of the Holocaust including the genocide and human rights violations that occurred. The course includes the historic precepts of the Holocaust as well as the gross violation of human rights committed by the Nazis during the "Final Solution". Students will be provided a greater understanding of the role of perpetrators and bystanders, and read and view first-hand accounts of the victims. The course concludes with a look at modern day genocides and human rights violations.

Course Name: Psychology**Grade(s): 11 Course Length: Semester Credits: 0.5 Prerequisite: None**

Description: The course deals with the science of behavior. The student is introduced to the environmental reasons for personal activity by examining the founding theories and methods used by psychologists to categorize and explain behavior. Subject matter will include the processes of sensation and perception, learning and conditioning, personality and methodology.

Course Name: Sociology**Grade(s): 11 Course Length: Semester Credits: 0.5 Prerequisite: None**

Description: The course acquaints the student with the basics of human relations. This is accomplished through an examination of what is culture, how the individual absorbs it and relates to it, the purpose of social institutions, and the real problems that arise from the socialization process. Students are encouraged to observe societal activity and make objective evaluations relating to specific aspects of American culture

Course Name: Economics /Government 12**Grade: 12 Course Length: 1 year Credits: 1.0 Prerequisite(s): None**

Description: This course is divided into 4 major parts. Students will explore a traditional macro/micro analysis approach as an introduction to the course. The second major section/unit will be an examination of American Business including sole proprietorships, partnerships, and corporations. This unit will also include a student investment game. The next unit will be a traditional study of the interactions of supply and demand. The final unit is a study of the Federal Income Tax System including all major tax returns, 1040EZ, and 1040A. Students will explore the origins of government, and our American government in particular. Emphasis will be placed on our Constitution as the reference point of our federal government. Major constitutional questions will be examined including precedent setting cases of the past and current constitutional controversies.

Course Name: **AP Government & Politics/Economics**

Grade: **12**

Course Length: **1 year**

Credits: **1.0**

Prerequisite(s): At least a 'B' average in 11th grade history.

Description: This course will give students the analytical perspective on government politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students should become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes.

DEPARTMENT: Technical Education (Industrial Arts)

Course Name: **Exploratory Industrial Technology**

Grade: **09**

Course Length: **1 year**

Credits: **1.0**

Prerequisite(s): 8th Grade Industrial Technology

Description: This exploratory course is intended to familiarize the student with basic principles of electricity and electronics. It provides basic information about metal working and woodworking. The course will instruct the student in safe work habits and develop skills pertaining to using hand and power tools. In this course, the student will find that the simple projects, which are constructed in connection with the student's studies, will demonstrate and will give understanding to the areas of electronics, metal shop, and woodworking.

Course Name: **Drawing and Design**

Grade(s): **9 10 11 12**

Course Length: **Semester**

Credits: **0.5**

Prerequisite: None

Description: The goal of this course is to give the students a basic background in the world of drawing and design. The students will draw basic shapes and objects using only pencil and paper. No drawing tools will be used. They will learn how to draw both orthographic and isometric drawings. They will be challenged with various problem solving activities. They will be required to do both individual and group activities in the classroom. They will brainstorm, design, sketch, build, and test models in the class. All projects will be submitted for grading by peers and the teacher. By the time the class is completed the students should have a very good understanding of the process of designing a product.

Course Name: **CAD Introductory**

Grade(s): **10 11 12**

Course Length: **1 year**

Credits: **1.0**

Prerequisite(s): Drawing and Design

Description: The goal of this course is to give the students a basic background in the world of Drafting. The students will see the importance of drafting as a language. The students will learn all of the tools used in drafting. They will learn both orthographic projection and isometric drawing. All rules of dimensioning will be used correctly. They will learn how to show shape description of objects in both 2 and 3 dimensional worlds. The first half of the year will be spent on pencil and paper drawings and the second semester will be spent using AutoCAD 2002. By the time the class is completed the students should have a very good understanding of basic technical drawing and computer aided drawing skills.

Course Name: **Electronics & House Wiring**

Grade(s): **10 11 12**

Course Length: **Semester**

Credits: **0.5**

Prerequisite(s): None

Description: This course is intended to familiarize the student with basic principles of electricity, electronics, and house wiring. The course will help students acquire safe work habits and develop skills in using tools in simple electrical construction. In house wiring, the student will have a solid background in electrical principles and practices as well as a thorough understanding of the national electrical codes. Once having mastered the information, you will be well equipped to design and install modern, safe residential wiring systems. In electronics, the student will learn basic circuits and basic components. Students will learn by constructing simple projects.

Course Name: Architectural Drafting

Grade(s): 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** CAD I

Description: The goal of this course is to give the students a basic background in the world of Architectural Drafting. The students will review the tools used in basic drafting, orthographic projection, and the rules of dimensioning. They will learn the basic structure of a building from the foundation to the roof of the structure. They will demonstrate the ability to draw blueprints and isometric drawings on paper. They will use AutoCAD 2002 to draw 2D plans on the computer. They will learn AutoCAD Architectural Desktop to draw 3D plans. They will then take their drawings and animate them to real world situations using 3D studio Viz. By the time the class is completed the students should have an understanding of architectural drawing and the structure of buildings.

Course Name: Mechanical Drafting

Grade(s): 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** CAD I

Description: The goal of this course is to give the students a basic background in the world of Mechanical Drafting. The students will review all of the tools used in drafting. They will review orthographic projection. All rules of dimensioning will be reviewed and used correctly. They will learn the complex working of many mechanical parts and devices. They will demonstrate the ability to draw blueprints and isometric drawings on paper. They will use AutoCAD 2002 to draw 2D plans on the computer. They will learn AutoCAD Mechanical desktop to draw 3D plans. They will then take their drawings and animate them to real world situations using 3D studio Viz. They will work in both worlds with Inventor software. By the time the class is completed the students should have a very good understanding of mechanical drawing.

Course Name: Wood Manufacturing Systems I

Grade(s): 10 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** None

Description: This is a beginners level course to introduce them to wood manufacturing. The student will be introduced to all of the machines. Safety will be covered on all of the machines in the shop. The students will start with plans and rough materials. They will use the tools to create a finished product. They will then be required to develop their own product and set up a mass production run which will include developing plans, fig and fixtures, flow charts, the actual manufacturing of parts, and electing a President and Vice President. This allows the students to see what actually goes on in the real world. (The students are required to purchase their products to complete the class.)

Course Name: Wood Manufacturing Systems II and III

Grade(s): 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** Wood I and II

Description: The goal of this course refines the woodworking knowledge the students were taught in Wood I. The students will review all of the tools used, and the safety practices for each. They will review the different practices and procedures for designing and building a project. A student chosen project must also be completed to fulfill the class requirements. This project needs to be completely designed and manufactured by the student in class. By the time this course is complete, the student should be able to follow strict tolerances and build outstanding projects. (The students are required to purchase their projects from the school.)

Course Name: Design and Manufacturing Technologies

Grade(s): 11 12 **Course Length:** 1 Year **Credits:** **Prerequisite:** Wood 1 & CADD 1

Description: This course is available for students to take up to two consecutive years and designed as an advanced manufacturing process course that investigates the art of woodworking, material handling, design process and related safety strategies. This course will thoroughly cover both hand and machine woodworking, metalworking as well as other manufacturing process by using tools to develop advanced skills and techniques for use in manufacturing setting.

DEPARTMENT: World Languages (Foreign Languages)

Course Name: German I

Grade(s): 09 10 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** C or better in the previous year's English class.

Description: Students will learn basic conversational German and will also be able to read and translate into English a simple passage from German. A comparison of German and American customs is taught in order to create an appreciation of German culture. Students learn German language and culture by a variety of techniques: conversation in class, films, slides, educational games, various projects and CDs

Course Name: German II

Grade(s): 10 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** C or better in German I

Description: Students increase their ability to converse and react in German. Conversations are longer and cover a variety of situations that might be encountered in German society. German culture continues to be studied.

Course Name: German III

Grade(s): 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** C or better in German II

Description: Students increase their ability to converse and react in German. German culture continues to be studied.

Course Name: Spanish I

Grade(s): 09 10 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** C in previous year's English class

Description: Spanish I is an introduction to the language, culture, and history of Spanish speakers in Spain, Latin America, and the United States. Students will learn basic vocabulary and simple grammar in a variety of situations. Listening, speaking, reading, and writing skills will be developed by various techniques, which may include TPR activities, role plays in real-life situations, oral and written exercises. Students will be exposed to the customs, music, and food of Hispanic people.

Course Name: Spanish II

Grade(s): 10 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** C or better in Spanish I

Description: Students will acquire a higher level of speaking, writing, and reading skills in Spanish. Conversational skills are more developed, and cover a variety of situations that might be encountered in a Spanish-speaking country. Hispanic culture continues to be studied.

Course Name: Spanish III

Grade(s): 11 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** C or better in Spanish II

Description: The course is an continuation of the listening, speaking, reading, and writing skills of the previous years' instruction. Students will learn more specialized vocabulary and advanced grammatical structures, and demonstrate oral proficiency in more complicated situations at a higher level of linguistic competence. The study of history and culture will allow students to expand reading and writing skills. Several projects will be required.

Course Name: Spanish IV

Grade(s): 12 **Course Length:** 1 year **Credits:** 1.0 **Prerequisite(s):** C or better in Spanish III

Description: Authentic texts and materials will provide context for oral proficiency practice and interaction with other students. Emphasis given to acquiring vocabulary and more complex grammatical structures will enable students to expand their reading and writing skills. Several projects will be required.

DEPARTMENT: Vocational-Technical Training (at Clarion County Career Center)

Course Name: Academy of Allied Health**Grade(s):** 12 **Course Length:** 1 year **Credits:** 3.5 **Prerequisite(s):** None

Description: A new program designed to provide students with a better understanding and an appreciation for careers in the health field. As students are learning necessary academics, they are also participating in a hands-on career exploration program. Students will go to health care or medical sites for three days a week for three weeks on a rotation basis. Every fourth week is spent in the classroom for clinic reports.

Course Name: Allied Health Science**Grade(s):** 10 11 12 **Course Length:** 1 year **Credits:** 3.5 **Prerequisite(s):** None

Description: This curriculum is designed for all individuals interested in medical careers. The program includes background information in medical, nursing, dental, laboratory, imaging and rehabilitative occupational areas. Individual course selections include Dental Assisting, Nursing Assisting, Medical Assisting. Nurse's Aide and Dental Radiologist certifications are available upon completion of related programs.

Course Name: Automotive Technology**Grade(s):** 10 11 12 **Course Length:** 1 year **Credits:** 3.5 **Prerequisite(s):** None

Description: Students can pursue the eight Automotive Service Excellence (ASE) certifications. Areas to be covered include engine repair, automatic and manual transmissions, suspension and steering, brakes, electrical/electronic systems, heating/air conditioning, and engine performance. Students may also be certified by NATEF and as a state license inspector.

Course Name: Computer Networking/Information Tech.**Grade(s):** 10 11 12 **Course Length:** 1 year **Credits:** 3.5 **Prerequisite(s):** None

Description: This program will prepare individuals with the technical skill required to support networks and network users. Possible skill development includes network design, security, web site design, computer repair, digital video and sound production. Possible certifications include A+, Network+, and Microsoft Networking.

Course Name: Construction Technology**Grade(s):** 10 11 12 **Course Length:** 1 year **Credits:** 3.5 **Prerequisite(s):** None

Description: Prepares students in Clarion County's largest industry. Students enrolled in this program receive training in carpentry, electric, plumbing and masonry. Hands on experience can be gained while building a modular home.

Course Name: Cosmetology Styling Academy**Grade(s):** 10 11 12 **Course Length:** 1 year **Credits:** 3.5 **Prerequisite(s):** None

Description: Consists of hair styling, permanent waves, hair coloring, bleaching, straightening, hair testing and scalp care. Also included is instruction about the skin, which includes facial treatments and cosmetics. Students learn proper manicuring methods as well as sales theory, maintaining client's hair record cards, state laws and diseases of the skin. May be eligible to become a certified cosmetologist.

Course Name: Culinary Arts & Hospitality**Grade(s):** 10 11 12 **Course Length:** 1 year **Credits:** 3.5 **Prerequisite(s):** None

Description: Students in this program can prepare themselves with the training necessary for entry-level jobs in the foodservice industry. Skills acquired include commercial food preparation, sanitation, inventory control and cake decorating. Job possibilities include prep cook, baker, waiter or waitress.

Course Name: Diesel Technology**Grade(s):** 10 11 12 **Course Length:** 1 year **Credits:** 3.5 **Prerequisite(s):** None

Description: The skills students learn in diesel technology include but are not limited to preventative maintenance, electrical troubleshooting, air system troubleshooting engine and drive assembly component disassembly, brake troubleshooting, air conditioning, and basic welding.

Course Name: Police Science

Grade(s): 10 11 12 Course Length: 1 year Credits: 3.5 Prerequisite(s): None

Description: Prepares students for careers in law enforcement such as correction officer, security officer, and probation officer. Physical fitness is highly stressed. Students are taught self-defense, as well as investigating techniques. This program is to help prepare for entrance to the police academy. Students who complete the three year program with a "B" average and the instructor's recommendation will receive six credits from Butler County Community College when enrolling into the criminology program.

Course Name: **Welding & Fabrication**

Grade(s): 10 11 12 Course Length: 1 year Credits: 3.5 Prerequisite(s): None

Description: Students are trained to become successful in the welding fields using state of the art equipment. The different types of welding include Oxy-acetylene, arc, MIG, TIG, pipe, and dual shield. Plasma cutting, blueprint reading and pipe welding will also be taught. Certification from the American Welding Society may be obtained. Most senior students participate in co-op their senior year gaining valuable skills and a paycheck.