



# Sandalwood High School Course Description Catalog

We present this information as a valuable resource to parents and students to assist you in working together to develop an academic plan, which is appropriate to meet state and county requirements as well as your personal goals.

This document is designed to help you select and understand next year's courses. The list of courses was compiled from the Duval County Course Guide based on graduation requirements and student course requests. The course descriptions and graduation requirements may change by legislative action. Please study this material so that you may plan your course choices wisely. Consult with your parents, teachers, and counselors. It is the student's responsibility to be knowledgeable of information provided.

Graduation requirements, promotion policy, dual enrollment and other valuable information can be found in the Student Progression Plan. This document is updated on a regular basis and can be found by following the link below.

<http://www.duvalschools.org/static/downloads/SPP.pdf>

If you have any questions about our scheduling process, please feel free to contact our Guidance Department at 646-5100 ext 150. As always, we look forward to working with our students in providing the best education possible.

### **Introduction**

This guide has been compiled to provide information needed for educational program planning to students who will be attending Sandalwood High School. Each student should consider his/her current program and long-range goals when selecting courses for the next year. The final selection of courses will be made with the student's guidance counselor who will refer to test scores, grades, and teacher recommendations.

**All information within this booklet is subject to change according to the Student Progression Plan.**

### **Curriculum Offerings**

Sandalwood will continue to offer a wide range of educational opportunities including college level courses offered through Advanced Placement and Dual Enrollment Programs. In addition, Honors level classes are available in all grade levels and in all academic areas. Electives are offered in many areas including Art, Band, Business, Chorus, Drama, Drivers Education, Industrial Arts, Physical Education, Air Force R.O.T.C., Family and Consumer Science, and many electives in the academic areas.

### **Scheduling Policy**

We try to schedule each student for his/her academic core course selections. Schedule conflicts often force us to assign an alternate choice. In some limited situations, another course may be substituted. Schedule conflicts usually occur in elective subject areas and in single course offerings. If we assign an alternative or substitute course, we will make every effort to provide either a comparable course or one that satisfies a similar graduation requirement.

Please note that all courses described in this catalog may not be offered the next school year. A course might not be scheduled if not enough students request the course. **Therefore, students need to indicate alternate courses on their registration forms.**

## Academic Core Courses

### Schedule Correction Policy

Please be aware of the schedule correction policy when you make your course selections and their alternates. Reasons for requesting a schedule correction within the **first ten days** of the semester include the following:

- The student has previously passed the scheduled course.
- The student has previously failed a class with the scheduled teacher.
- The student has not passed a required prerequisite course.
- Schedules are not changed due to personality conflicts or student whims.

The following are the exceptions to the ten-day policy:

1. Administrative action becomes necessary to balance class loads.
2. The student needs a different course to meet graduation requirement.

**No other exceptions will be considered.**

Sandalwood High School employs only teachers certified by the Florida Department of Education. The school administration will decide the instructor for each course section. Students and parents are expected to abide by this choice of instructor.

The courses listed below are the preferred "academic" courses at Sandalwood High School that satisfy course distribution requirements for the state university admissions in Florida. Additionally, they also meet the requirements for the Florida Bright Futures Scholarships.

#### **English:**

English I, Honors English I, English II, Honors English II, English III, English IV, AP English Language, AP English Literature, and Humanities.

#### **Mathematics:**

Algebra I, Liberal Arts Math, Geometry, Honors Geometry, Algebra II, Algebra II Honors, Trigonometry, Analytic Geometry, Advanced Topics in Mathematics, Pre-Calculus, AP Calculus (AB), Probability & Statistics, AP Statistics and College Readiness Mathematics.

#### **Science:**

Anatomy and Physiology, Biology I, Honors Biology I, AP Biology, Chemistry I, Honors Chemistry I, AP Chemistry, Physics I, Honors Physics I, AP Physics, Earth/Space Science, Earth/Space Science Honors, Ecology, Marine Science and AP Environmental Science.

#### **Social Studies:**

American History, AP American History, Economics, Honors Economics, AP Microeconomics, AP Macroeconomics, American Government, Honors American Government, Law Studies, Psychology I, Sociology, World History Honors, World History, AP World History, AP European History, AP Human Geography and AP Psychology.

#### **World Language:**

French I, French II, French III, Dual Enrollment Intermediate French I, Dual Enrollment Intermediate French II, AP French Language, AP French Literature, Spanish I, Spanish II, Spanish III, and AP Spanish Language. American Sign Language I and American Sign Language II and American Sign Language III (are accepted at the Florida State Universities in Florida as an alternate to world language for admissions only. Students applying to out of state or private schools should check with their admissions requirements.)

## COURSE OFFERINGS

Students may choose from the following courses. The list is based on state and county graduation requirements.

### ART (required materials fee).

#### Draw/Paint I

1 Credit, Grades 9-12

Entry Level Art Class

Pre-requisite course for all Art Courses

The purpose of this course is to enable students to develop basic perceptual, observational, and compositional skills necessary to communicate a range of subject matter, symbols, ideas, and concepts using knowledge of drawing and painting media, processes, and techniques

#### Draw/Paint II 10 – 12

1 Credit, Grade 10-12

Provides more advanced experience in design composition, drawing and painting techniques, and art media. More in-depth emphasis on aesthetics and art history.

#### Draw I

0.5 Credit, Grades 9-12

Entry Level Art Class

The purpose of the this course is to enable students to develop basic perceptual, observational and compositional skills necessary to communicate a range of subject matter, symbols, ideas, and concepts using knowledge of drawing

#### Paint I

0.5 Credit, Grades 9-12

Entry Level Art Class

The purpose of the this course is to enable students to develop basic perceptual, observational and compositional skills necessary to communicate a range of subject matter, symbols, ideas, and concepts using knowledge of painting

#### 3D Art

0.5 Credit, Grades 10 – 12

Pre-requisite: Drawing/Painting I

Provides a basic understanding of art methods, media, techniques, and craftsmanship involved with three-dimensional works. Take home project required

#### Ceramics I

1 Credit, Grades 10 – 12

Pre-requisite: Drawing/Painting I

The purpose of this course is to enable students to recognize the properties, possibilities, and limitations of clay by creating functional and nonfunctional works of ceramics and pottery using basic hand-building techniques.

#### Ceramics II, III

1 Credit, Grades 10 – 12

Students demonstrate skill in producing clay forms, both pottery and sculpture.

#### Sculpture I

1 Credit, Grades 10-12

Pre-requisite: Drawing/Painting I

The purpose of this course is to enable students to develop basic skills in the use of sculpture media, design, processes, and techniques. Emphasis shall be placed on the use of visual, spatial, and compositional concepts to communicate a range of ideas.

#### Sculpture II, III

1 Credit, Grades 10-12

Pre-requisite: Sculpture I

The purpose of this course is to enable students to develop intermediate-level and advanced level skills in the use of sculpture media, design, processes, and techniques. Emphasis shall be placed on the use of visual, spatial, and compositional concepts to communicate a range of ideas.

#### Portfolio

1 Credit, Grades 10-12

The purpose of this course is to develop a portfolio containing an artist's statement and a diverse range of the student's own works of art.

#### Advanced Placement Art

1 Credit, Grades 10-12

Studio – General Portfolio

In this course, the students demonstrates the ability to deal with fundamental concerns of visual arts. Through an individually designed program, the student prepares materials for presentation and evaluation in three sections: quality, concentration, and breadth.

## **Business Technology**

### **Computers for College and Careers**

1 Credit, Grades 9 – 12

This course is designed to provide a basic overview of current business and information systems and trends and to introduce students to the basics and foundations required for today's business environments. Emphasis is placed on developing proficiency with touch keyboarding and fundamental computer applications, so that they may be used as communication tools for enhancing personal and work place proficiency in an information-based society. This also includes proficiency with computers using databases, spreadsheets, presentation applications, and the integration of these programs using software that meets industry standards.

\*It is highly suggested this class be taken before entering into the GIS Academy

### **Diversified Career Technology DCT (On the Job Training)**

Multiple Credits, Grades 11 & 12

Pre-requisite: 16 years of age & Coordinator's approval

Provides for development of occupational competencies through employment related instruction. Includes maintaining job forms and instruction related to specific job the student is performing.

### **Academy of Information Technology (AOIT) Application to Academy REQUIRED**

#### **Introduction to Information Technology**

1 Credit, Grades 9-10

This course is designed to provide an introduction to information technology concepts and careers as well as the impact information technology has on the world, people, and industry and basic web design concepts. The content includes information technology career research; operating systems and software applications; electronic communications including e-mail and Internet services; basic HTML, DHTML, and XML web commands and design; emerging technologies, and Web page design.

#### **IT Programming/Database**

1 Credit, Grades 10-11

This course introduces computer programming concepts for information technology applications using the Scheme programming language and an introduction to database fundamentals. The content includes information technology career research, computer functions, programming techniques and concepts, data modeling and advanced database techniques. Emphasis is placed on the techniques needed to develop well-documented, structured computer programs.

## **IT Web/Digital Media**

1 Credit, Grades 11-12

This course focuses on digital media and advanced web tools. The content includes information technology career research; advanced HTML, DHTML, and XML commands and web page design; advanced web topics such as web scripting and web server administration; and basic multimedia applications including audio, video, graphics, text, and animation tools.

### **IT Technical Support/Networking**

1 Credit, Grades 11-12

This course focuses on system support, maintenance, and basic network concepts. The content includes information technology career research and emphasis is placed on developing an understanding of various computer software and hardware applications including installation, troubleshooting, diagnostic techniques, and repair of system components, operating systems, and application software; common safety and preventive maintenance procedures; basic networking including physical and logical network connectivity; and effective behaviors that contribute to customer satisfaction.

### **IT Internship**

1 Credit, Grade 12

The IT internship course provides students with the opportunity to stimulate their career interest and to demonstrate human relations, communications, and employability skills necessary for entry-level employment in the information technology industry. Students will enhance and apply instructional competencies learned in the classroom through the internship experience.

## **Geospatial/Geographic Information Systems (GIS)**

### **Application to Academy REQUIRED**

#### **Introduction to GIS/RS Technology**

1 Credit, Grades 9-10

While learning about the basics from the evolution of maps and projections, to learning about the modern uses of a geographic information system, students will complete many "hands-on" activities such as creating their own maps using compasses, rulers and tape measures. Specific areas of focus for this course include fundamental GIS and remote sensing concepts, project management strategies, and essential basic computer skills. Students will acquire a basic understanding of geographic terms and concepts necessary for the appropriate use of GIS, including concepts of spatial variables, scale, map projection, and map coordinate systems. Students will also be exposed to the history of GIS, how GIS fits into overall information management systems, and a variety of applications in which GIS can contribute to analysis and decision-making. They will also use a software application used to simulate satellite movements and utilize data, imagery, and GIS software to study their state, county, and school campus.

This hands-on course provides step by step instructions that will take you from learning the basics of these programs; like launching a map, viewing and editing metadata, to creating new shapefiles, and eventually to building a local map with data that you download from the Internet. While learning these valuable skills, students will be using the same geospatial tools that GIS Technicians in the industry are using.

#### **Essential GIS/RS Tools & Processes**

1 Credit, Grades 10-11

Students in this course will use their knowledge of mapping and cataloging to complete numerous geospatial applications. They will learn techniques in displaying, managing, querying, symbolizing, and Create geospatial data. Students will learn the skills required to work on and/or build advanced GIS/RS projects.

Students will follow a course of hands-on instruction to learn advanced skills ranging from introductory spatial analysis to examining spatial relationships within a specified area. Additionally, they will study site suitability to using three-dimensional generating software to gain a different perspective of their environment by modeling surfaces. Students will use scenarios to map features and study relationships that exist in their local community.

Students will use remote sensing applications and data to develop skills that will allow them to take images and convert them to data that they will use for different types of analyses. The types of analyses will include using data in image analysis, feature extraction, vegetation mapping and change detection, and image enhancement.

## **GIS/RS Analysis & Modeling**

1 Credit, Grades 11-12

This course covers Surface Analysis, 3D modeling, and working with street networks.

This course directs students through five types of applications in Surface Analysis. It focuses on the various methods and uses of displaying continuous, or grid, data over a surface. Students will be expected to map data such as elevation, rainfall and temperature – data that differs from one location to the next on the surface of the earth. The five types of analyses used in this course are: mapping distance, density, interpolation, surface analysis, and statistics. This course will conclude with a short project where student will use their newly acquired skills to perform surface analysis tasks to their local area.

There is a strong emphasis on students viewing their local area and the world in three dimensions. Students will learn skills such as viewing and displaying data, acquiring and processing data from online resources, displaying non-elevation data in 3D, applying surface analysis to 3D, adding raster and vector data, animating data, and exporting projects.

Students will also explore in greater depth data layers previously studied in order to analyze the flow or navigation of networked data. They will also delve into the specifics of network analysis and examine how problems dealing with geospatial networks and routing may be found in the business world and in communities. The five types of network analyses covered in this course include Exploring Geospatial Networks, Finding the Best Route, Finding the Closest Facility, Determining Service Areas, and Modeling Real World Traffic Flow.

#### **Advanced GIS/RS Applications**

1 Credit, Grade 12

This project-based, capstone course challenges students to apply all skills and techniques learned in the previous three courses to create their first extensive GIS and Remote Sensing project. In this project, students will work in teams to create a three-dimensional map of their campus using GIS and RS tools. Once the base map is completed, each student selects one of the designated campus-based projects to complete. Students will be involved with all parts of the process including problem identification, data collection using GPS units, determining the appropriate type of analysis to be conducted or type of product to address the problem statement, performing the analysis, Create their solution, and formally presenting the project to interested stakeholders. Each project integrates project planning, geographic problem solving, GIS/RS tools and software applications, project management, data creation, data manipulation, data analysis, report, and presentations.

#### **AP Computer Science**

1 Credit, Grades 11-12

The purpose of this course is to treat the applications of computing within the context of programming methodology, algorithms, and data structures.

## **DRIVER EDUCATION**

### **Driver Education**

0.5 Credit, Grades 10 – 12

Pre-requisite: Valid Florida Drivers Permit

Provides techniques in rules of driving using classroom simulator and multiple car driving. Certificate awarded upon successful course completion. Course will substitute for the state driving test to obtain an operator's license.

## **FAMILY & CONSUMER SCIENCES**

### **Child Development**

0.5 Credit, Grades 9 – 12

Provides study of parental responsibilities for conception, pregnancy, birth, birth defects, and early childhood.

### **Parenting Skills**

0.5 Credit, Grades 9 – 12

Introduces skills and techniques for becoming a successful parent. Course provides study of problems and solutions to child care, bonding, disabilities, sleep patterns, discipline, and early educational skills.

### **Nutrition & Wellness**

0.5 Credit, Grades 9 – 12

Provides practical hands-on experience in recipe interpretation, meal planning, food preparation, and serving of prepared recipes.

### **Principles of Food Preparation**

0.5 Credit, Grades 9 – 12

Provides extensive experience in advanced food preparation with emphasis on preparing entrees, salads, desserts, beverages, and entertaining.

### **Food Production I**

1 Credit, Grades 9 – 12

Pre-requisite: Teacher Recommendation

Food Production I includes food preparation techniques; sanitation and safety; employment skills; and use/care of equipment. Students serve faculty luncheons. **(Seniors may take Food Production I & II together but may not take Foods I only)**

### **Food Production II, III & IV**

1 Credit Each, Grades 10 – 12

Pre-requisite: Teacher Recommendation and previous course

The class plans, prepares, and serves faculty luncheons.

We have guest speakers and take field trips. The class also presents job opportunities in the food service industry.

## **Cooperative Food Management (OJT)**

1 Credit, Grades 11 – 12

Pre-requisite: Teacher Recommendation and Foods I

Cooperative Foods provides instruction in general and specific job skills through training in school and work experience outside of school in the food industry. This course may be taken with Foods II & III.

## **WORLD LANGUAGE**

### **American Sign Language I, II, III**

1 Credit Each, Grades 9 – 12

Pre-requisite: Successful completion of previous course  
ASL courses teach hearing students basic conversation skills in American Sign Language and an awareness of various aspect of deafness.

### **French I and II**

1 Credit Each, Grades 9 – 12

Pre-requisite: C average in English Course

Pre-requisite Fr II: Successful completion of Fr I

Provides for the progressive development of listening comprehension, speaking, reading, writing, and cultural appreciation in French.

### **French III**

2 High School Credits & 8 College Credits Hours  
Grades 10 – 12

Pre-requisite: French II and Teacher Recommendation

Provides opportunities to engage in conversation and topical writing. Grammar skills will be reviewed

### **French AP (Lang)**

1 Credit Each, 1 College Credit each, Grades 11 – 12

Pre-requisite: B average in French III

Pre-requisite: AP (Lang) for AP (Lit)

Teacher recommendation.

Based on the Advanced Placement Program. Focuses on proficiency in French language both oral and written, listening comprehension, speaking, reading, and an understanding of the French culture

### **Spanish \*\* I, II, and III**

1 Credit Each, Grades 9 – 12

Pre-requisite: A or B average in English Course

\*\*Not appropriate for native speaking students

Provides for progressive development of listening comprehension, speaking, reading, writing, and cultural appreciation in Spanish.

### **Spanish IV AP (Lang)**

1 Credit, Grades 11 – 12

Teacher Recommendation

Based on the Advanced Placement Program. Focuses on proficiency in both oral and written language.

## **LANGUAGE ARTS**

### **Intensive Reading**

1 Credit, Grades 9 – 12

The purpose of this course is to provide instruction that enables students to develop and strengthen reading skills and develop independent reading endurance.

### **English I**

1 Credit, Grade 9

Provides language arts skills in reading, writing vocabulary, grammar, speaking, and listening. Basic research skills are introduced along with reading and writing skills needed to pass state requirements for graduation.

### **English Honors I**

1 Credit, Grade 9

Pre-requisite: A-B average in Eng. 8 Advanced Teacher recommendation

Provides enriched experiences in literature, writing, speaking, and listening with an intensive review of grammar, along with reading & writing skills needed to pass state requirements for graduation.

### **English II**

1 Credit, Grade 1

Provides language arts skills in reading, vocabulary, grammar, speaking, listening, and writing with emphasis on persuasive and expository modes. Reading, writing, and research skills are expanded to prepare students for state and national testing.

### **English II Honors**

1 Credit, Grade 10

Pre-requisite: A-B average in Eng. I Honors Teacher recommendation

Emphasizes literary analysis through written and oral composition focusing on poetry and the development of drama and the novel. Reading, writing, and research skills are expanded to prepare students for state and national standardized tests.

### **English III**

1 Credit, Grade 11

Provides skills in composition through development of writing, vocabulary, and research methods; focuses on the study of forms and themes in American literature

### **English IV**

1 Credit, Grade 12

Continues development of language arts skills in reading, writing, listening, speaking, and research. Reading focuses on world literature, primarily works by British authors.

### **AP English Language**

1 Credit, Grade 11 - 12

A-B average in Eng. III, Teacher Recommendation  
A college level course that emphasizes formal and creative composition through the comparison and analysis of literary genres. Students are expected to take the AP exam, unless exempted by the teacher.

### **AP English Literature**

1 Credit, Grade 11 - 12

A-B average in Eng. III, Teacher Recommendation  
A college level course that emphasizes the analysis of novels, short stories, and plays. Students are expected to take the AP exam, unless exempted by the teacher.

### **Drama I**

1 Credit, Grades 9 – 12

Provides an introduction to acting techniques and play production including an overview of the history and literature of the theater.

### **Drama II, III, & IV**

1 Credit Each, Grades 10 – 12

Pre-requisite: Drama I, II

Provides experience in techniques and play production with emphasis on character development, articulation, projections, and stage movement.

### **Mass Media I, II, III, & IV (Yearbook)**

1 Credit Each, Grades 10 – 12

Requirement: Minimum GPA of 2.0 & Teacher Approval  
Students gain experience in the planning and production of a major publication (yearbook) and learn elements of graphic design in Mass Media.

### **Debate I, II, III, & IV**

1 Credit Each, Grades 9 – 12

The purpose of this course is to enable students to develop knowledge of representative works of literature and related visual and performing arts from post-Renaissance through the modern era.

### **Creative Writing I**

0.5 Credit, Grades 10 - 12

The purpose of this course is to enable students to develop and use fundamental writing and language skills for creative expression in a variety of literary forms. Emphasis will be on development of a personal writing style.

### **Speech (Public Speaking)**

The purpose of this course is to enable students to develop fundamental skills in formal and informal oral communication. The content includes communication skills, forms of oral communication, techniques of public speaking, research/organization/writing for public speaking and analysis of public speaking.

## **ESOL**

### **ESOL I, II, III, and IV**

1 Credit Each, Grades 9 – 12

The purpose of these courses is to provide integrated educational experiences in the language arts strands of reading, writing, listening, viewing, speaking, language, and literature.

### **ESOL Developmental Language Arts**

1 Credit Each, Grades 9 – 12

The purpose of this course is to enable students who are native speakers of languages other than English to develop proficient listening, speaking, reading, and writing skills in the English language.

## **MATHEMATICS**

### **Intensive Mathematics**

The purpose of this course is to enable students to develop mathematics skills and concepts through remedial instruction and practice.

### **Algebra 1**

1 Credit Each, Grades 9 – 11

Provides the foundation for advanced mathematics courses as well as skills needed in today's job market.

### **Geometry**

1 Credit, Grades 9 – 12

Pre-requisite: Algebra I or Algebra 1a and 1b

Provides for the study of the basic concepts of Euclidean Geometry; basic logic and its uses in problem solving are presented.

### **Honors Geometry**

1 Credit Each, Grades 9 – 11

Pre-requisite: Algebra I

Covers topics in standard Geometry in more depth, including attention to the concept of proof. Student must take Research in conjunction with Honors Geometry.

### **Liberal Arts Math**

1 Credit, Grades 9 - 11

Pre-requisite: Algebra I

LAM is designed to strengthen understanding of basic algebraic concepts and to introduce geometry concepts.

### **Algebra II**

1 Credit, Grades 10 – 12

Pre-requisite: Geometry

Includes number systems, polynomials, factoring, rational expressions, radicals, exponents, functions, complex numbers, and solving quadratic equations.

### **Algebra II Honors**

1 Credit, Grades 9 – 12

Pre-requisite: Honors Geometry or

Teacher recommendation

Includes all of the topics of standard Algebra II in greater depth.

### **Trigonometry**

(Taken with analytical geometry)

0.5 Credit, Grades 11 – 12

Pre-requisite: Algebra II

Includes the study of circular and trigonometric functions and their applications.

### **Analytical Geometry**

(This course is taken with trigonometry)

0.5 Credit, Grades 11 – 12

Emphasizes the relationship between Algebra, Geometry, and Trigonometry

### **Probability and Statistics**

1 Credit, Grades 11 & 12

Pre-requisite: Algebra II or

Teacher recommendation

Topics include probability concepts, permutations, combinations, sample space, binomial distribution, concepts of descriptive statistics, measures of central tendencies, variability, and normal distribution.

### **Advanced Topics in Mathematics**

1 Credit, Grades 11-12

The purpose of this course is to enhance and continue the study of mathematics after Algebra I, II, and Geometry and provide a college level foundation to students not aspiring to a math, science, or technical major.

### **Mathematics for College Readiness**

1 Credit, Grade 12

The purpose of this course is to enhance and continue the study of mathematics after Algebra I, II, and Geometry and provide a college level foundation to students not aspiring to a math, science, or technical major. Admission into this course depends on the CPT test.

### **Advanced Placement Statistics**

1 Credit, Grades 11 & 12

Pre-requisite: Algebra II or Teacher recommendation

The content should include, but not limited to, the following:

Exploratory data, Planning a study, Anticipating patterns in advance, and Statistical inference

### **Pre-Calculus**

1 Credit, Grades 10 – 12

Pre-requisite: Honor Algebra II or

Teacher recommendation

Emphasizes the study of algebraic and other skills necessary for the study of calculus.

### **AP Calculus AB**

1 Credit, Grades 11 & 12

Pre-requisite: Teacher Recommendation

Based on the Advanced Placement Program, includes differentiation and integration of polynomial, trigonometric, inverse trigonometric exponential and logarithmic functions.

### **MUSIC**

#### **Chorus I, II, III, IV, V**

1 Credit Each, Grades 9 – 12

Designed to meet student interest in developing choral performance skills, develop the fundamentals of music to include emphasis on singing. Participation in some after school practices and performances required. Uniform and performance required. **(Fees Required)**

#### **Band I, II, III, IV, V**

1 Credit Each, Grades 9 – 12

Designed to teach the basic principles of musicianship. Skills are developed and refined in breath control, tone quality, blend, balance phrasing and rhythm. If involved in the Marching Band, after school participation is mandatory.

#### **Color Guard (Flags)**

provides the development and refinement of skills in the manipulations of auxiliary equipment used as a component of the marching band and winter guard.

**(Fees Required)**

#### **Advanced Placement Music Theory**

1 Credit Each, Grades 11 – 12

The purpose of this course is to develop the student's ability to recognize and understand the basic materials and processes in any music that is heard or read in score.

#### **Music Appreciation**

1 Credit, Grades 9-12

The purpose of this course is to enable students to develop knowledge and skills necessary to understand and appreciate how music is used in one's personal life as well as in varied cultures, societies, and historical periods.

### **AFJROTC (Aerospace)**

Rules for entry into Air Force Junior ROTC:

1. "C" average (2.0)
2. Males must agree to keep their hair cut.
3. All must agree to wear Air Force uniform one day per week.
4. All must agree to take instructions from senior ranked cadets.

#### **Aerospace Science I, II, III, & IV**

1 Credit Each, Grades 9 – 12

The first year is a history course designed to acquaint the student with historical development of flight and the role of the military in history.

The second year the student is acquainted with aerospace environment, principles of flight and navigation, and a study of the atmosphere and weather. The third course involves discussion of the fundamentals of rocketry and the application of spacecraft, principles of space travel, and the various aspects of space exploration.

In the final year, the cadets manage the corp.

This hands-on experience affords the cadets the opportunity to put the theories of learned leadership roles into practice. The cadets practice their communication, decision-making, personal interaction, managerial, and organizational skills.

**Note:** Students completing three years will normally be allowed to enter any branch of the military service or Coast Guard in the rank of E-3 (Marines (E-2)). Opportunities for 3 and 4 year AFROTC college scholarships are enhanced by being enrolled in AFJROTC for two or more years. Five students may be nominated for attendance at the U.S. Air Force Academy.

### **PHYSICAL EDUCATION**

#### **H.O.P.E. (2 courses required)**

0.5 Credit Each, Grades 9 – 12

The purpose of the courses are to develop and enhance healthy behaviors that influence lifestyle choices and student health and fitness.

#### **PHYSICAL EDUCATION ELECTIVES**

0.5 Credit each, Grades 9 - 12

Aerobics I, II, III

Basketball

Individual / Dual Sports I, II, III

Recreation Activities

Team Sports I, II

Tennis I, II, III

Weightlifting I, II, III

Recreational Activities

Volleyball

Personal Fitness

## **SCIENCE**

### **Earth / Space Science Standard and Honors**

1 Credit Each, Grade 9

Includes study of formation of universe and solar system. The purpose of this course is to develop and apply concepts basic to the Earth, its materials, processes, history, and environment in space.

### **Biology I**

1 Credit, Grades 10 – 12

Includes study of plants, animals, and human biology. Dissection is a required part of the course.

### **Biology I Honors**

1 Credit, Grades 9 – 12

Teacher recommendation

Same as Biology I with more in-depth study and research. A science project is required.

### **Advanced Placement Biology**

1 Credit Each, Grades 11 - 12

Pre-requisite: B" "in Biology I, Chemistry I, or Physics & Teacher Approval

Based on the Advanced Placement Program, college level work in general Biology and related labs.

### **Chemistry I**

1 Credit, Grades 10 – 12

Provides a foundation of knowledge and skills involving structure and composition of materials and the changes they undergo.

### **Chemistry I Honors**

1 Credit, Grades 10 – 12

Pre-requisite: A-B in Algebra I and currently enrolled in Geometry or above. B or better in previous science courses.

Same as Chemistry I with more in-depth study and research. A science project is required.

### **Advanced Placement Chemistry**

1 Credit, Grades 11 - 12

Pre-requisite: A-B in Algebra I and currently enrolled in an advanced math course.

B or better in Chemistry I, A in Chem I Honors.

Based on the Advanced Placement Program with college level work in general chemistry and related labs.

### **Ecology**

1 Credit, Grades 11 - 12

Pre-requisite: Biology I

Provides a study of the relationships between animals and their environment through a study of food chains and energy relationships, bio-geologic cycles, population dynamics, pollution, endangered species, and man's impact on the environment. Laboratory activity is required.

### **Marine Science I**

1 Credit, Grades 10 – 12

Pre-requisite: Biology I, Chemistry or

Physics recommended

Covers the topics of oceanography, marine ecology, marine botany, and marine zoology. Major emphasis is on the detailed study of marine animals.

### **Anatomy and Physiology Honors**

1 Credit, Grades 11 – 12

Pre-requisite: Biology

Recommended: C or better in

Biology I Honors or B or better in Biology I

Provides knowledge and skills that are essential for careers in nursing, medical technology, cosmetology, and other related career fields. Dissection is a part of this course.

### **Physics I**

1 Credit, Grades 11 - 12

Pre-requisite: Currently enrolled or completed Algebra I

Provides a basic study of measurement and graphing, kinematics, dynamics, energy, specific forces, waves, electricity, optics, and other selected topics.

### **Physics I Honors**

1 Credit, Grades 10 – 12

Pre-requisite: Currently enrolled in or has completed Algebra II. Completion of Algebra I and Geometry with a B or better.

Same as Physics I with more in-depth study and research. Science projects are required.

### **Advanced Placement Physics C: Mechanics**

0.5 Credit Each, Grades 11 & 12

Pre-requisite: Calculus recommended, Teacher Approval  
Based on the Advanced Placement Program, this course forms the first part of the college sequence that serves as a foundation in physics for students majoring in the physical sciences or engineering. Includes intensive study of mechanics/electrical and related labs.

### **Advanced Placement Environmental Science**

1 Credit, Grades 11 – 12

The purpose of this course is to study the interaction with mankind and the environment.

## **SOCIAL STUDIES**

### **American Government (Required)**

0.5 Credit, Grade 12

Provides opportunity to study national, state, local government as well as political behavior.

### **Advanced Placement US Govt and Politics**

0.5 Credit, Grade 11-12

American Government Students acquire a critical perspective of politics and government in the United States. They learn general concepts used to interpret American politics and analyze specific case studies. Students also become familiar with the various institutions, groups, beliefs and ideas that constitute the American political perspective

### **Economics (Required)**

0.5 Credit, Grade 12

Provides opportunities to study basic economics and economy of the United States.

### **AP Microeconomics**

0.5 Credit, Grade 11-12

In order for students to acquire the knowledge and decision-making tools necessary for understanding how society must organize its limited resources to satisfy its unlimited wants, students learn factors that influence the economic system.

### **AP Macroeconomics**

0.5 Credit, Grade 11-12

Students understand the choices they must make as producers, consumers, investors, and tax payers. The study of economics provides students with the knowledge and decision-making tools necessary for understanding how a society must organize its limited resources to satisfy its unlimited wants.

### **American History (Required)**

1 Credit, Grade 10 - 11

Provides a chronological and conceptual study of the United States.

### **Advanced Placement American History**

1 Credits, Grades 10 - 12

Co-requisite: Honors English or AP English  
Based on the Advanced Placement Program.  
Provides an in-depth study of the United States from colonial times to the present.

### **World History (Required)**

1 Credit, Grade 9 - 10

Provides opportunities to investigate the chronological development of civilization from its beginning to the present.

### **Advanced Placement World History**

1 Credit, Grades 9 – 10

Students understand the development of Europe within the context of history by examining connections to the past in order to prepare for the future as participating members of a global community. Students use knowledge pertaining to history, geography, economics, political processes, religion, ethics, diverse cultures and humanities to solve problems in academic, civic, social and employment settings.

### **Law Studies**

0.5 Credit, Grade 10 – 12

Provides opportunities to study the American legal process with practical information and problem solving opportunities.

### **Holocaust**

0.5 Credit, Grade 11 – 12 Pre-requisite-One of the following:

AP World, APUSH, AP Euro, Standard US with teacher recommendation

The purpose of this course is to examine the events of the Holocaust.

A further purpose of this course is to enable students to understand their connection to the development of civilization by examining the past to prepare for their future as participating members of a global community.

### **African-American History**

0.5 Credit, Grade 10 – 12

Students understand the development of African American heritage within the context of a broad historical focus. Students examine connections to the past to prepare for the future as participating members of a democratic society.

### **Psychology**

0.5 Credit, Grades 11 - 12

Provides insights and explanations into people's motivations, thoughts, and emotions.

### **Advanced Placement Psychology**

1 Credit, Grades 11-12

Through the study of psychology, students acquire an understanding of and an appreciation for Human behavior, behavioral interaction, and the progressive development of individuals. This will better prepare them to understand their own behavior and the behavior of others.

### **Philosophy**

0.5 Credit, Grades 11 - 12

Focuses on the great thinkers and intellectual movements of western civilization, from Plato to 20<sup>th</sup> century philosophers.

### **Sociology**

0.5 Credit, Grades 11 - 12

Study of human group behavior.

### **The History of the Vietnam War**

0.5 Credit, Grades 11-12

This course provides students the opportunity to acquire an understanding of the chronological development of the Vietnam War by examining the political, economic, social, religious, military and cultural events that affected the war. Topics include an understanding of geographic/historic and time/space relationships, the use of arbitrary periodization in the Vietnam War, an analysis of the United States military effort and makeup in the war, an evaluation of the role of the United States homefront, interpretations of the effects of the media, film and literature during and after the war, judgment of crucial decisions made during the Vietnam War and an analysis of the effects of the Vietnam War on our lives today.

### **Advanced Placement European History**

1 Credit, Grades 10 – 12

Pre-requisite: Teacher recommendation,  
B or better in World History

Based on the Advanced Placement Program. Provides an in-depth study of major themes in European history since 1500.

### **World Cultural Geography**

1 Credit, Grades 9 – 12

Students develop multicultural understanding and use geographical concepts and skills to acquire information and systematically apply decision-making processes to real-life situations. They will acquire an understanding of interrelationships between people and their environment.

### **Advanced Placement Human Geography**

1 Credit, Grades 9 – 12

The content should include, but not be limited to, the following:

Regions, population studies, cultural concepts and spatial representation, political Geography, land use, urbanization, issues related to space, place, and scale economic geography.

**TECHNOLOGY EDUCATION** (Material fees required)

### **Communications Technology I, II, III, IV(Graphic Arts)**

1 Credit Each, Grades 9 – 12

Pre-requisite: Teacher recommendation for II, III, IV

Introduces student to the graphic arts industry. Includes work in printing, photography, silk screen, and layout.

The 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> year continues development of skills and concepts of the Graphic Arts industry.

### **Principles of Materials (Woods) I, II, III, IV**

1 Credit Each, Grades 9 – 12

The courses covers all types of woodworking tools.

Hand tools, portable power tools, and stationary power tools are discussed in detail, providing the student knowledge and confidence in operating each tool safely and effectively.