



*Aviano
Middle/High School*

9-12

*Course Description
Booklet*

2008-2009

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Dear Students and Parents,

Following are the graduation requirements, the list of possible course offerings at Aviano High School, and the professional technical studies certificate information for this school year. Please pay particularly close attention to the graduation requirements. It is important to follow the requirements for the year you graduate very carefully.

All students in DODEA schools need to have a 6-year plan. This plan identifies graduation requirements and the specific courses you have taken and intend to take in order to fulfill those requirements. Every year the counselors assist students in updating their plans during course selection sessions in the English classes. Students then have the opportunity to share these with their parents. Parents, if you have not seen this plan nor discussed it with your student, feel free to contact your student's counselor to set up an appointment. Students, if you are not sure if you have one, please see your counselor.

*Aviano High School offers courses to meet all levels of challenge. **If you are a student who consistently scores above the 90th percentile** in standardized testing, consider the Honors and AP offerings. **If you are a student who finds math and language arts courses challenging and who scores below the 50th percentile** in standardized testing, pay attention to the support courses offered in math, reading and language arts.*

We hope you find this catalog helpful and informative. If you have any questions, please do not hesitate to contact us.

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Graduation Requirements

<u>Curricular Area</u>	<u>Class of 2009</u>
Language Arts (English)	4
Social Studies	3
Mathematics	3
Science	3
Foreign Language	2
Fine Arts	1
Physical Education	1.5
Personal Fitness, Activity and Nutrition, Lifetime Sports	
Health	0.5
Professional Technical Studies	2
<u>Electives</u>	<u>6</u>
TOTAL	26

** Must have a **cumulative GPA of 2.0** in order to graduate.

** **Honors Diploma** is available with a minimum of 4 AP courses and a cumulative 3.8 GPA.

** A "G" following the curricular area indicates that the course will satisfy graduation credit requirements for that curricular area.

Courses by Curricular Area

Language Arts	Language Arts 9, 10, 11, 12; Honors English 9, 10; AP English Language; AP English Literature and Composition
Social Studies	World Regions/Cultures; World History; Honors World History 9,10, United States History, AP US History; AP US History-DL; US Government; Economics-DL; Psychology; Street Law
Mathematics	Algebra I; Geometry; Discrete Mathematics; Algebra II; Mathematical Analysis; AP Calculus AB; AP Statistics-DL
Science	Biology; Earth and Space Science; Chemistry Applications in the Community; Chemistry; Physics Applications in the Community; Physics; Scientific Research-DL; AP Biology; AP Chemistry; AP Physics B-DL; Marine Biology - DL
Foreign Language	Italian I, II, III, IV; Spanish I, II, III, IV; AP Spanish Language-DL; AP German-DL
Fine Arts	Fundamentals of Art; Studio Art; Ceramics; Drawing; Painting; Sculpture; Printmaking; Drama Theater ; Humanities; Advanced Band; Guitar I, II
Physical Education	PE/Personal Fitness, PE /Activity, Nutrition; PE/Lifetime Sports
Health	Health Ed I; Health Ed I - DL
Professional Technical Studies (PTS):**	Accounting I, II; Advanced Computer Studies; AP Computer Science A-DL; Applied Architectural Design/CAD; Architectural Drawing; Business Law; Business & Personal Finances; Career Practicum I, II (2-3 hours); Computer Animation; Computer Service and Support; Engineering Design and Development; Engineering Drawing/CAD; Imaging Software Applications; Interactive Multimedia; Java Programming I, II-DL ; Marketing & Entrepreneurship; Mgmt International Business; Presentations and Publications; Presentation Software Applications; Spreadsheet Software Applications; Video Communication I, II, III; Visual Basic I, II-DL; Website Development and Management; Word Processing Software Applications
Electives	AVID I, II, III, IV; AVID Tutor I, II; College Entrance Preparation; Yearbook Production; Journalism; Speech; Reading Lab; Algebra I Lab, Algebra II Lab; Geometry Lab; Air Force JROTC I, II, III, IV;

**All PTS certificate programs are listed following course descriptions in the back of this booklet.

COURSE Descriptions

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
Accounting I Major Concepts/Content: Accounting I introduces students to accepted accounting principles and the complete basic accounting cycle, which includes financial statements for service and merchandising businesses. Additional topics covered are payroll, notes, depreciation, forms of ownership, and the importance of ethics.	Career/PTS - G	1	10-12
Accounting II Major Concepts/Content: Accounting II expands the accounting concepts learned in Accounting I. Students will be introduced to partnership and corporate accounting concepts, accounting procedures for manufacturing businesses, cost and managerial concepts, and analysis tools. Notes and depreciation will be studied in greater depth.	Career/PTS - G	1	11-12
Advanced Comp Studies Major Concepts/Content: Advanced computer studies is a one-semester course designed to teach students advanced programming concepts. Problem solving and program documentation will be emphasized. Students will write original computer programs. Students will choose from a variety of advanced programming languages to include, but not limited to, Java, SmallTalk, LISP, Scheme, Perl, Korn, CGI, JavaScript, PHP, and VBScript.	Computer/Career/PTS - G	0.5	11-12
Advanced Band Major Concepts/Content: The advanced band course is designed to acquaint students with advanced instrumental music skills. The content includes, but is not limited to, the following: the interpretation and analysis of musical scores; the application of musical nuances in playing from a score; independent performance of all major and minor scales; advanced rhythm patterns; performance as a soloist and in small and large group ensembles; a variety of music repertoire, including style, periods, forms, electronic music; intermediate to advanced level sight-reading exercises; and introduction to computer/synthesizer musical composition.	Fine Arts - G	1	9-12
Air Force JROTC I, II, III, IV Major Concepts/Content: The Air Force JROTC I course is designed to acquaint secondary school students with the historical development of flight and the role of the military in history. Over half of the available classroom hours are spent reviewing the development of flight from ancient legends to the space shuttle. Additionally, the role of the military throughout the history of the United States is identified. The second half of the course examines the make-up of the aerospace community and the United States Air Force. Many of the sixty hours directed to leadership studies relate directly to other school academic subjects, with cadets presenting both written and oral reports.	Career/PTS - G	1	9-12
Algebra I Major Concepts/Content: This course may be the most common entry level course for students who have had a rich and varied middle level mathematics program. It expands upon basic algebraic concepts previously acquired and integrates those principles with everyday life. The processes of problem solving, reasoning, communication and making connections are emphasized. Students will use formulas, functions, and equations to describe and clarify relationships, and will use geometry to represent algebraic relationships. Students will learn how to write and translate expressions into mathematical forms, solve first and second degree equations, and use the concept of a function to model real-world phenomena.	Math - G	1	9-12

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
Algebra I Lab I	ELECTIVE	1	9-12
<p>Major Concepts/Content: This class is designed to provide a developmental approach to the building of algebraic concepts, to expand upon basic algebraic concepts previously acquired, to integrate those principles with everyday life, and to assist all students in viewing algebra as a language of modeling the real world through problem solving. Learning will be through concrete activities and modeling, whenever possible, with less emphasis upon computational or symbol manipulating facility. Students will use formulas, functions, and equations to Describe and clarify relationships, and will utilize geometry to represent algebraic relationships. Emphasis will be upon recognizing connections between geometry and algebra as they occur in real-life situations.</p>			
Algebra II	Math - G	1	10-12
<p>Major Concepts/Content: This course engages students in advanced algebraic concepts through the study of functions of functions, polynomials, complex matrices, and sequences and series. Students will make connections by integrating algebra into geometry, data analysis, and into other curricular areas. Student reasoning will involve linear equations and inequalities, systems of linear equations, matrices and determinants, quadratic equations and relations, functions and graphs, powers, roots, and radicals, exponential and logarithmic functions, polynomials and polynomial functions, rational expressions and functions, sequences and series, probability and statistics, and circular trigonometric functions.</p>			
Algebra II Lab I	ELECTIVE	1	10-12
<p>Major Concepts/Content: This class will support and reinforce the basic algebraic concepts taught in the Algebra II course. Students will have additional opportunities to learn how to write and translate expressions into mathematical forms, solve first and second degree equations, and use the concept of a function to model real-world phenomena. They will also expand their problem solving experiences to further develop their reasoning, representation, connections, and communication skills.</p>			
AP Biology*	Laboratory Science - G	1	11-12
<p>The AP Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. After showing themselves to be qualified on the AP Examination, some students, as college freshmen, are permitted to undertake upper-level course in biology or to register for courses for which biology is a prerequisite. Other students may have fulfilled a basic requirement for a laboratory-science course and be able to undertake other courses to pursue their majors.</p>			
AP Calculus AB*	Math - G	1	12
<p>Major Concepts/Content: The concepts and content for AP Calculus course incorporate the syllabus of the College Board. Students are engaged in authentic applications involving limits and continuity, derivatives, integrals, transcendental functions, and infinite series. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. The standards develop the unifying themes of derivatives, integrals, limits, approximation, and applications and modeling. Graphing calculators are required for this course as mandated by the College Board. Students should be encouraged to talk about the mathematics of change in calculus, to use the language and symbols of calculus to communicate, and to discuss problems and methods of solutions.</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
AP Calculus AB-DL*	Math - G	1	12
<p>Major Concepts/Content: The concepts and content for AP Calculus course incorporate the syllabus of the College Board. Students are engaged in authentic applications involving limits and continuity, derivatives, integrals, transcendental functions, and infinite series. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. The standards develop the unifying themes of derivatives, integrals, limits, approximation, and applications and modeling. Graphing calculators are required for this course as mandated by the College Board. Students should be encouraged to talk about the mathematics of change in calculus, to use the language and symbols of calculus to communicate, and to discuss problems and methods of solutions.</p>			
AP Calculus BC-DL*	Math - G	1	12
<p>Major Concepts/Content: The concepts and content for AP Calculus course incorporate the syllabus of the College Board. Students are engaged in authentic applications involving limits and continuity, derivatives, integrals, transcendental functions, and infinite series. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. The standards develop the unifying themes of derivatives, integrals, limits, approximation, and applications and modeling. Graphing calculators are required for this course as mandated by the College Board. Students should be encouraged to talk about the mathematics of change in calculus, to use the language and symbols of calculus to communicate, and to discuss problems and methods of solutions.</p>			
AP Comp Sci A-DL*	Computer/PTS - G	1	11-12
<p>Major Concepts/Content: The course description for the advanced placement courses published by College Boards is to be used for the above course. The Advanced Placement Program offers two computer science courses: Computer Science A and Computer Science AB. The content of Computer Science A is a subset of the content of Computer Science AB. Computer Science A emphasizes programming methodology with a concentration on problem solving and algorithm development and is meant to be the equivalent of a first-semester course in Computer Science. It also includes the study of data structures and abstraction, but these topics are not covered to the extent that they are covered in Computer Science AB. Computer Science AB includes all the topics of Computer Science A, as well as a more formal and in-depth study of algorithms, data structures, and abstraction. For example, binary trees are studied in Computer Science AB but not in Computer Science A.</p>			
AP English Language*	Language Arts - G	1	11-12
<p>An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing.</p>			
AP English Lit* or DL* (sp. cases)	Language Arts - G	1	11-12
<p>An AP English course in Literature and Composition should engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students should deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone.</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
AP German-DL*	Foreign Language-G	1	11-12
<p>AP German Language, emphasizing use of the language for active communication, has as its objective the development of the following competencies: Having a strong command of vocabulary and structure; Understanding spoken German in various conversational situations; Reading newspaper and magazine articles, contemporary fiction, and non-technical writings without the use of a dictionary; and Fluently and accurately expressing ideas orally and in writing.</p>			
AP Physics B-DL*	Laboratory Science - G	1	11-12
<p>The Physics B course provides a systematic introduction to the main principles of physics and emphasizes the development of problem-solving ability. It is assumed that the student is familiar with algebra and trigonometry; calculus is seldom used, although some theoretical developments may use basic concepts of calculus. In most colleges, this is a one-year terminal course and is not the usual preparation for more advanced physics and engineering courses. However, the B course provides a foundation in physics for students in the life sciences, pre-medicine, and some applied sciences, as well as other fields not directly related to science.</p>			
AP Spanish Language-DL*	Foreign Language-DL	1	11-12
<p>An AP Spanish Language course covers the equivalent of a third-year college course in advanced Spanish writing and conversation. It encompasses aural/oral skills, reading comprehension, grammar, and composition. Students taking such a course, emphasizing the use of Spanish for active communication, have the following objectives: The ability to comprehend formal and informal spoken Spanish; The acquisition of vocabulary and a grasp of structure to allow the easy, accurate reading of newspaper and magazine articles, as well as of modern literature in Spanish; The ability to compose expository passages; and The ability to express ideas orally with accuracy and fluency.</p>			
AP Statistics-DL*	Math - G	1	12
<p>Major Concepts/Content: The concepts and content for AP Statistics incorporate the syllabus of the College Board. The topics for AP Statistics are divided into four major themes: exploratory analysis, planning a study, probability, and statistical inference. Exploratory analysis of data makes use of graphical and numerical techniques to study patterns and departures from patterns. Data must be collected according to a well-developed plan if valid information on a conjecture is to be obtained. Statistical inference guides the selection of appropriate models.</p>			
AP US History* or DL*	US History - G	1	11-12
<p>The AP program in United States History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials - their relevance to a given interpretive problem, their reliability, and their importance - and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format.</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
App Arch Design-CAD	Career/Computer/PTS - G Prereq	1	10-12
<p>Major Concepts/Content: The applied architectural design course is designed as a capstone project. Emphasis is placed on applying life and educational experiences to architectural design. The team approach to problem solving is emphasized. The content includes, but is not limited to, determining purposes, uses, and aesthetics of structures, the analysis of various architectural designs, apply principles of environmental and energy efficient design, and use current construction materials and practices. Students will prepare and present multimedia presentations using a variety of software and technologies. This is a real or simulated design project meeting the needs of actual clients. This course is the culmination of the Architectural, Engineering, and Construction (AEC) curriculum and is intended as an opportunity for students to utilize all the skills acquired through the AEC strand of courses. This course is recommended for aspiring architects, designers, engineers, CAD technicians, and interior decorators.</p>			
Architectural Draw	Career/Computer/PTS- G	1	9-12
<p>Major Concepts/Content: The architectural drawing course is designed to provide students with instruction and skills in computer aided drawing (CAD) fundamentals commonly used in the production of residential and commercial buildings. The course includes the study of the basic fundamentals of design, and the skills related to the production of architectural designs. The content includes, but is not limited to, designing interior and exterior elements of structures in both two-dimensional and three-dimensional representations. Students will prepare presentations of designs created using CAD technology. It is recommended that aspiring architects, designers, engineers, CAD technicians, interior decorators take this course. This course may be used as an Applied Engineering Technology major as part of the School-to-Work transition program.</p>			
AVID 9, 10, 11, 12	ELECTIVE	1	9-12
<p>Major Concepts/Content: AVID (Advancement Via Individual Determination) is a language arts based curriculum with emphasis on the writing process and writing as a tool of learning. In addition to inquiry and collaboration, AVID also provides students with academic survival skills, i.e., time management, note taking, textbook reading, library research, test taking skills, and study skills. The Cornell note-taking system is taught and students are expected to use this system in all classes.</p>			
Avid Tutor I, II	ELECTIVE	1	9-12
<p>Major Concepts/Content: The AVID Tutor program is designed to train students who excel in the academic areas and who have an interest in teaching to work in a collaborative setting with students enrolled in the AVID program. Tutors will undergo a training period in which they will learn to effectively use the three teaching methodologies used in AVID: writing as a tool for learning, the inquiry method, and collaborative grouping.</p>			
Biology	Laboratory Science - G	1	9-12
<p>Major Concepts/Content: Biology is designed to provide students with an integrated approach to the study of living organisms, in addition to science as inquiry, science & technology, science & social perspectives, and the history & nature of science. The course integrates unifying science concepts and processes of systems, order & organization, evidence, models & explanation, change, consistency & equilibrium; and form & function. Scientific inquiry and understanding about inquiry are emphasized through practical implications and meaningful applications.</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
Business Law	Career/PTS- G	1	11-12
Major Concepts/Content: Business Law provides the student with a survey of the American legal system. This course develops an understanding of law as applied to society and to the individual. Topics include the judicial system, contracts, warranties, guarantees, consumer protection, real property, landlord and tenant relationships, sole proprietorship, partnerships, and corporations.			
Business and Personal Finances	Career/PTS- G	1	9-12
Major Concepts/Contents: This course is designed to make students aware of the financial challenges confronting them in daily living. Included will be such topics as how to make intelligent decisions in spending and saving; how to maintain good financial records; how to avoid financial disasters that result from the unwise use of credit and credit cards; information about banking services, insurance choices, and investment choices; and how to prepare tax returns.			
Career Practicum	Career/PTS- G	1-3	12
Major Concepts/Content: Career Practicum is designed to provide school-to-career experiences and training through a work practicum related to their career goal. Important aspects are to: Provide students an opportunity to acquire an understanding of actual employment settings utilizing their skills and aptitudes; apply problem solving skills in the work environment; and develop communication techniques.			
Ceramics I	Fine Arts - G Prereq Fundamentals	0.5	10-12
Major Concepts/Content: The ceramics course is designed to provide a studio-oriented experience with the study of clay. Students explore the properties of clay by making utilitarian and sculptural forms that emphasize form, design, and craftsmanship. The course includes instruction in clay application, kiln management, and the historical role of ceramics in our culture.			
Chem Apps in the Community	Laboratory Science - G	1	10-12
Major Concepts/Content: Chemistry Applications in the Community is an entry level course designed to help students understand the chemistry behind some important societal issues. Information is presented in an integrated approach with science as inquiry, science & technology, science & social perspectives, and the history & nature of science. The course integrates unifying science concepts and processes of systems, order & organization, evidence, models & explanation, change, consistency & equilibrium, and form & function. Scientific inquiry and understanding about inquiry are emphasized through practical implications and meaningful applications. Students study basic concepts of chemistry, while integrating physical concepts of chemistry.			
Chemistry	Laboratory Science - G	1	10-12
Major Concepts/Content: Chemistry is designed to help students understand the major principles of chemistry. Information is acquired through an integrated approach, incorporating advanced topics with science as inquiry, science & technology, science & social perspectives, and the history & nature of science. The course integrates unifying science concepts and processes of systems, order & organization, evidence, models & explanation, change, consistency & equilibrium; and form & function. Scientific inquiry and understanding about inquiry are emphasized through practical implications and meaningful applications. Topics students' study includes atomic theory and structure, chemical bonding, principles of chemical reactions, molecular structure, and how science and technology relate to chemistry.			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
CISCO Networking I	Computer/PTS - G	1	10-12
<p>Major Concepts/Content: This course prepares students to become network engineers and prepares them for entrance into a technology career field or for further technology study. The program includes a complete range of basic and advanced networking concepts - from pulling cables through such complex concepts as subnet masking rules and strategies. Successful completion of this course and the Cisco Networking 2 course should prepare the student to pass the Cisco Certified Network Associate (CCNA) examination.</p>			
CISCO Networking II	Computer/PTS - G	1	11-12
<p>Major Concepts/Content: This second course prepares students to become network engineers and prepares them for entrance into a technology career field or for further technology study. This course includes field experience in network problem solving. Successful completion of this course (and Cisco Networking 1) should qualify the student to pass the Cisco Certified Network Associate (CCNA) exam.</p>			
College Entrance Prep	ELECTIVE	0.5	10-12
<p>Major Concepts/Content: The College Entrance Preparation course is designed to review and reinforce knowledge of content included on the Scholastic Aptitude test. In addition, the course should help students get better acquainted with the SAT, and in the process, alleviate some of the anxiety associated with taking this important test which could result in major implications for future educational pursuit.</p>			
Computer Animation	Computer/Career/PTS - G	1	9-12
<p>Major Concepts/Content: The Computer Animation course is designed to provide students with the instruction and skills to create digital illustrations, modeling and animation, character animation, digital motion imagery, and game design. The content includes, but is not limited to, 3D modeling, materials and textures, rendering, and computer animation. Students will also create, record, and edit digital audio, video, and photographic imagery. This course will utilize software programs to develop animation, morphing, 3-D graphics, and virtual reality projects. It is recommended that aspiring graphic designers, computer animators, electronic game designers, engineers, CAD technicians, architects, interior decorators take this course. This course may be used as an Applied Engineering Technology major as part of the School-to-Work transition guidelines.</p>			
Computer Applications I	Career/Computer/PTS—G	.5	9-12
<p>Computer Applications I is designed to provide the student with the opportunity to expand technology knowledge and apply various technology applications. This course will equip the student with the necessary technology tools for personal use, employment and advanced education. The Cyber Café offers a full menu of application modules with word processing, database, spreadsheet, presentation software and information literacy skills.</p>			
Computer Service/Support	Career/Computer/PTS - G	1	9-12
<p>Major Concepts/Content: This program is intended to prepare students for computer support careers. Students enrolled in this course will learn how to perform shop maintenance, repair computers, install operating systems and software, acquire employment skills, as well as operate a service and support business. The course will provide students with concepts and skills necessary to achieve certification in PC Repair and Technical Support. This distributed learning model of instruction provides a blend of instruction with hands-on experiences that reflects current industry practices. During the course, students will identify and use hand tools, PC hardware and software, and will explore electronics theory. Installation, upgrade and repair will be explored in personal computer systems. A number of operating systems also will be reviewed. Students will train in a simulated work environment using a distributed learning instructional model.</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
Discrete Mathematics	Math - G	1	10-12
<p>Major Concepts/Content: This discrete mathematics course by design shows a different view of mathematics than as seen in traditional mathematics courses. It is an applications driven course that is based upon the study of events that occur in small, or discrete, chunks. Discrete concepts are used extensively in business, industry, government, and the digital world. The major areas of study are counting and probability, graph theory, the mathematics of social choice (voting and fair division), and coding and encryption. Some of the questions investigated in discrete math are: What does a bar code mean? What is the most efficient way a delivery truck can visit ten destinations? Should you buy a lottery ticket?</p>			
Drama-Theater I	Fine Arts - G	1	9-12
<p>Major Concepts/Content: The drama course is designed to give the students opportunity to experience drama as a significant and rewarding activity and to enable students to demonstrate knowledge of the historical background of drama. The content includes, but is not limited to, recognition of the different genres of drama (tragedy, comedy, farce, melodrama, musical) and the elements of playwriting; knowledge of the different historical periods of drama and acting; understanding of the importance of drama as a reflection of society; recognition of drama as a self-rewarding activity that involves the identification of the unique worth of the individual, the motivation behind human behavior; and the dynamics of interpersonal relationships.</p>			
Drawing	Fine Arts - G Prereq	1	10-12
<p>Major Concepts/Content: The drawing course is designed for students who want to explore drawing as a means of self-expression. The course activities develop students' skills in the techniques and styles of drawing media, Students explore the two and three-dimensional aspects in drawing and develop personal expression.</p>			
Earth & Space Science	Laboratory Science - G	1	9-12
<p>Major Concepts/Content: Earth and Space Science is designed to help students understand the world around them and increase their ability to evaluate that world. Information is presented in an integrated approach with science as inquiry, science & technology, science & social perspectives, and the history & nature of science. The course integrates unifying science concepts and processes of systems, order & organization, evidence, models & explanation, change, consistency & equilibrium; and form & function. Scientific inquiry and understanding about inquiry are emphasized through practical implications and meaningful applications. Topics students' study include geology, astronomy, meteorology, oceanography, and ecology.</p>			
Economics, Economics DL	Social Studies Elective - G	0.5	10-12
<p>Major Concepts/Content: The economics course is a one-semester course designed to acquaint students with the major concepts in the study of economics. Students study how scarce resources are allocated among competing demands. The production, distribution, and accumulation of wealth are discussed and analyzed. Supply and demand, business organization, money and banking, the role of the federal government, and comparisons among economic systems are major topics of study. The course is offered to the secondary student, grades ten through twelve.</p>			
Engineer Design-Dev	Career/Computer/PTS - G Prereq	1	10-12
<p>Major Concepts/Content: The Engineering Design and Development course forms the capstone project for the Pre-Engineering curriculum. In this course, students will work in teams of two to four individuals to design and construct the solution to an original engineering problem. Each design problem is taken from a database of design problems offered to all DoDEA students enrolled in the course. As students work on their capstone project they will develop technical writing skills and use a variety of CAD, CAM, GIS, fabrication, manufacturing, and robotics technologies. Students will also maintain an engineering journal and develop a portfolio. This course is the culmination of the pre-engineering curriculum and is intended as an opportunity for students to utilize all the skills acquired through the pre-engineering strand of courses.</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
Engineer Draw-CAD	Career/Computer/PTS - G	1	9-12
<p>Major Concepts/Content: Engineering drawing is a Computer Aided Drawing and Design (CAD) course designed to provide beginning students with instruction in computer graphic skills and design fundamentals. Students will learn the use of a CAD system for two-dimensional drawing and three-dimensional modeling. Through the use of the Internet students will explore the wide range of CAD technologies and applications. This course is strongly recommended for students aspiring to become engineers, architects, and engineer technicians. This course is part of the School-to-Work program.</p>			
Fundamentals of Art	Fine Arts - G	1	9-12
<p>Major Concepts/Content: The fundamentals of art course is designed as the basic entry course for the art program. The course provides instruction in the use of the elements of line, Color texture, shape, and space arrangement in works of art. Students learn how to compose a balanced, rhythmic, unified design through a series of assignments that use a variety of two- and three-dimensional art media. Course emphasis is placed on basic techniques of drawing, painting, printmaking, ceramics, and sculpture that can be used throughout life for communication, expression, and enjoyment.</p>			
Geometry	Math - G	1	9-12
<p>Major Concepts/Content: This course is designed to develop and promote student reasoning and problem solving involving geometric concepts and properties. Topics of study will include deductive reasoning using points, lines, and planes; segments, angles and triangles; quadrilaterals; polygons; and three-dimensional figures. Algebraic concepts are integrated with the geometric concepts throughout the course. Applications to real life situations are prevalent throughout the course.</p>			
Geometry Lab I	ELECTIVE	1	9-12
<p>Major Concepts/Content: This class will support and reinforce the basic geometric concepts taught in the Geometry course. Students will have additional opportunities to develop two- and three-dimensional reasoning skills, to understand coordinate and transformational geometry, trigonometric relationships, and to use geometric models to solve problems. They will build on their problem solving experiences to further develop their deductive and inductive reasoning skills, and methods of justifications. A variety of applications and some general problem-solving techniques will be used, including algebraic skills.</p>			
Guitar I, II	Fine Arts - G	1	9-12
<p>Major Concepts/Content: The guitar I, II courses are designed to introduce students to the study of the guitar. The content includes, but is not limited to, staff notation and rhythm concepts, major and minor chord recognition, strumming and picking techniques, duple and triple meters, listening skills, guitar styles and forms, familiarity in the playing of all strings, variety of guitar repertoire, performance as soloists and in group ensembles, tuning and intonation, and guitar accompaniment techniques. Students will be required to pass written and oral examinations in music rudiments and to perform successfully guitar music independently, as an accompanist, and in group ensembles, following all critical markings on a musical score. Students are required to have their own acoustic guitar.</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
Health Ed I - or Health DL	Health - G	0.5	9-12
<p>Major Concepts/Content: This required course is designed to help high school students extend their conceptualization of knowledge, attitudes, and skills related to health issues learned in middle school. The focus is on students dealing with the world today and preparing for adult living based on a health and wellness ethic. Developmentally appropriate concepts of personal and community health (PCH), safety (SFTY), mental health (MH), alcohol, tobacco, and other drugs (ATOD), and family life and human sexuality (FLHS) are taught in this course. Students will utilize health education concepts when applying health information literacy skills, enhancing intrapersonal and interpersonal communications, analyzing internal and external influences, and applying thinking, self-management, and advocacy to promote wellness and reduce health risks.</p>			
Honors English 9	Language Arts - G	1	9
<p>This course is a demanding study of world literature as it ties in with world history to the 1500's. This course is taught in conjunction with Honors World History 9. The emphasis in the class will be on critical reading, analysis, and synthesis of information. Various forms of evaluation, such as in-depth written research projects and oral presentations to the class, will be used. This class is distinguished by a difference in the quality of work expected, not merely by an increase in quantity. Students taking this Honors class must also complete a summer reading and writing assignment.</p>			
Honors English 10	Language Arts - G	1	10
<p>This course is a demanding study of world literature as it ties in with world history from the 1500's through the present. This course is taught in conjunction with Honors World History 10. The emphasis in the class will be on critical reading, analysis, and synthesis of information. Various forms of evaluation, such as in-depth written research projects and oral presentations to the class, will be used. This class is distinguished by a difference in the quality of work expected, not merely by an increase in quantity. Students taking this Honors class must also complete a summer reading and writing assignment.</p>			
Honors World History 9	Social Studies Elective - G	1	9
<p>Major Concepts/Content: This course begins with the study of world history from the beginning of civilization to the 1500's. It is an interdisciplinary study that must be taken in conjunction with Honors English 10. The emphasis in the class is on the use of higher-level thinking skills that focus on critical reading, analysis, synthesis, and evaluation. In both form and subject, the materials selected for study will be a challenge to the most able student.</p>			
Honors World History 10	Social Studies Elective - G	1	10
<p>Major Concepts/Content: This course begins with the study of world history in the 1500's. It is an interdisciplinary study that must be taken in conjunction with Honors English 10. The emphasis in the class is on the use of higher-level thinking skills that focus on critical reading, analysis, synthesis, and evaluation. In both form and subject, the materials selected for study will be a challenge to the most able student.</p>			
Humanities or DL	Fine Arts - G	1	9-12
<p>Major Concepts/Content: The humanities course is designed to be an integrated study of history, literature, language, philosophy, the visual arts, theatre, dance, and music. Emphasis is placed on critical thinking, creativity, and the rights and responsibilities of the individual in a society. Students explore aspects of human behavior and human ideals.</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
Imaging Software Applications	Career/Computer/PTS— G	1	10-12
<p>Students will be able to demonstrate the following essential objectives: Use imaging software to demonstrate a thorough understanding of file formats using the work area and work spaces; importing, exporting and saving; working with sections; creating and using layers; using masks and channels; managing color, adjusting images; drawing and editing; painting; retouching; using actions; working with type; outputting to print; and outputting for the web. Analyze and evaluate solutions. Students will be able to do the following: Maintain files appropriately, demonstrate an understanding of security and risks., demonstrate basic knowledge of operating systems, demonstrate information literacy skills, understand the concepts of ethical issues as related to information systems (e.g. privacy, property, and access). Microsoft Adobe Certification Course</p>			
Interactive Multimedia	Computers/Careers/PTS - G	1	9-12
<p>Major Concepts/Content: Interactive Multimedia is designed to acquaint students with a variety of multimedia applications. A variety of technology tools will be used to produce multimedia projects that include graphics, sound, video, programming, and other appropriate technology. The emphasis of this course is the production of individual and/or group projects.</p>			
Italian I, II, III, IV, V	Foreign Language - G	1	9-12
<p>The foreign language courses are designed to teach students to pronounce and discriminate among the various vowel and consonant sounds and respond to and to imitate authentic patterns of intonation, rhythm, and pronunciation. Students learn to give simple oral and written information by using appropriate learned vocabulary, word order, and grammatical forms, and to read silently and aloud with comprehension. The major linguistic principles and language skills covered in Italian include the following: usage of singular and plural nouns and interrogative, definite, indefinite, demonstrative and possessive adjectives; identifying and using the active voice in the indicative mood; identifying and using the imperative, the future tense, all forms of the past tense, progressives, and the subjunctive mood; identifying and using subject pronouns, direct object pronouns, indirect object pronouns, and the emphatic, reflexive, interrogative, demonstrative, and relative pronouns; identifying and using the most common prepositions; identifying and using comparison of adjectives; and identifying and using the formation of adverbs. As students progress through the levels, fluency and independence in speaking and writing is emphasized.</p>			
Java I-DL	Computers/Careers/PTS - G Prereq	0.5	10-12
<p>Major Concepts/Content: Programming in Java is a one-semester course designed to teach students Java programming concepts using a structured approach. Students will develop Java applications and applets. Problem solving and program documentation will be emphasized.</p>			
Java II-DL	Computers/Careers/PTS - G Prereq	0.	10-12
<p>Major Concepts/Content: Programming in Java II is a one-semester course designed to teach students Java programming concepts using a structured approach. Students will develop Java applications and applets. Problem solving and program documentation will be emphasized.</p>			
Journalism I	ELECTIVE	1	10-12
<p>Major Concepts/Content: The journalism course encourages student responsibility for the development of personal and staff management skills, for the production of a publishable product, and for adherence to ethical values affecting journalists, while helping students at the same time to refine and put to practical use their thinking, writing, and critiquing skills. The study of journalism will also introduce students to the problems and opportunities present in mass media today. The content includes, but is not limited to, choosing and using appropriate writing techniques in preparing publishable material (applying the conventions of English usage, using effective words, sentences, and paragraphs, using effective techniques in preparing for interviews and</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
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conducting effective interviews, writing publishable newspaper stories); utilizing accepted techniques in the preparation of journalistic material (applying ethical methods of obtaining information for use in writing, rewriting, editing, and proofreading material, writing headlines, identifying material appropriate for school publication, creating an aesthetic page layout, demonstrating balanced writing on controversial issues, differentiating between fact and opinion, and practicing assigned staff responsibilities in an efficient manner); recognizing ethical issues in the practice of journalism [recognizing situational factors affecting publication of material, checking sources to ensure reliability, displaying good taste, and avoiding plagiarism]; and demonstrating personal development congruent with journalistic practices and career goals, demonstrating the ability to follow journalistic work schedules and deadlines, using managerial and supervisory skills, functioning without supervision, and analyzing journalistic materials based upon accepted standards.

Language Arts 9	Language Arts - G	1	9
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Major Concepts/Content: The language Arts 9 course is designed to strengthen students' skills in listening, speaking, writing, literature, and language. The content includes, but is not limited to, preparing oral reports in various content areas; using appropriate pitch, stress, juncture and rate in formal and informal speech; using the dictionary and the thesaurus to develop an increasingly comprehensive and precise vocabulary in both speaking and writing; locating resources (magazines, reference sources, films, and microfiche) by using indexes, catalogs, and the Reader's Guide; practicing the process of composition, including prewriting, drafting, revising, proofreading, and publishing; writing correspondence using appropriate forms (business, friendly); identifying with literary characters of the student's own age, and understanding how the characters' actions and emotions reflect the student's own actions and emotions; understanding that literature is written at different levels for different purposes and for different audiences; and reading self-selected books to help students learn to view reading as a useful and pleasurable activity.

Language Arts 10	Language Arts - G	1	10
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Major Concepts/Content: The Language Arts 10 course is designed to strengthen students' skills in listening, speaking, writing, literature, and language. The content includes, but is not limited to, outlining or mapping main ideas and details of information received aurally or through research; using vocabulary and sentence structure appropriate to the listener and the situation; understanding the importance of speech in influencing the course of events in a democratic society; using interviewing skills; using parliamentary procedure skills; using formal debating skills; refining test-taking skills to meet secondary and post-secondary demands; writing a paraphrase, summary, or precise; writing compositions for newspaper publication; writing a short paper using research techniques; selecting appropriate sources of information for the topic; understanding and explaining the type of conflict in a given literary selection (psychological, social, environmental); experiencing a wide range of literary forms (e.g., short stories, novels, non-fiction, poetry, drama); using the media center research facilities; and reading self-selected books to help students learn to view reading as a useful and pleasurable activity.

Language Arts 11	Language Arts - G	1	11
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Major Concepts/Content: The Language Arts 11 course is designed to strengthen students' skills in listening, speaking, writing, literature, and language. The content includes, but is not limited to, developing an increasingly comprehensive vocabulary in conversation and discussion; developing small group and large group discussion skills; inferring conclusions from a series of oral statements; respecting the presence of dialects and regional variations in speech; writing essays responding to social, political, and literary concepts; writing resumes; writing compositions of more than one paragraph using narration, exposition, and/ or description; developing individual criteria for the aesthetic appreciation of literature; recognizing and understanding the use of literary and stylistic devices; dramatizing literature; experiencing a wide range of literary works written in the United States by writers from the major ethnic groups in the U.S. population, including both classic and modern works; using the media center research facilities; and reading self-selected books to help students learn to view reading as a useful and pleasurable activity.

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
Language Arts 12	Language Arts - G	1	12
<p>Major Concepts/Content: The Language Arts 12 course is designed to strengthen students' skills in listening, speaking, writing, literature, and language. The content includes, but is not limited to, recognizing how continued development of communication skills can enhance one's future career and leisure activities; using communication skills in preparing for career choices; using the research skills necessary to meet the demands of post-secondary classes; using computer technology, where hardware is available, as an aid in writing compositions; writing in a clear and personal style; responding to literary masterpieces which are the common heritage of all people; engaging in perceptive reading and critical analysis of English and world literature; engaging in discussions of philosophical questions as revealed in literary works; and using the media center research facilities.</p>			
Management International Business	Career/PTS- G	1	9-12
<p>Major Concepts/Content: This course provides an overview of business as well as the social and economic environments affecting business. Basic principles of organization and management as well as entrepreneurship and management skills and techniques are covered. Units of instructions include economics, finance, marketing, human resources, and global competitiveness. International Business introduces students to the basic concepts of world trade, the different world markets, and the methods used to import and export goods. Students are taught to think in terms of the different legal, cultural, economic, and political environments. The course will include workplace skills such as time management, money management, human resources management, listening skills, speaking skills, and accessing/ evaluating electronic resources.</p>			
Marine Biology /Tel	Laboratory Science - G	0.5	10-12
<p>Major Concepts/Content: Marine Biology is designed to be an elective, introductory course to the identification and classification of organisms most common to the region in which the course is offered. Information is presented in an integrated approach with science as inquiry, science & technology, science & social perspectives, and the history & nature of science. The course integrates unifying science concepts and processes of systems, order & organization, evidence, models & explanation, change, consistency & equilibrium, and form & function. Scientific inquiry and understanding about inquiry are emphasized through practical implications and meaningful applications. Topics students study include ecological concepts of the sandy beach, rocky shore and benthic communities, seaweeds, plank tonic forms, plankton and their relationship to marine life cycles, nekton, benthos, marine bacteriology, marine biological resources, and marine pollution. Additional special topics may be selected for study.</p>			
Marketing and Entrepreneurship	Careers/PTS- G	1	11-12
<p>Major Concepts/Content: This course enables students to gain a basic understanding of marketing principles, techniques, and career opportunities. Instruction will include the relationship of products, prices, promotions to the marketing of goods and services to consumers. Ethics and social responsibilities of free enterprise will be included. Entrepreneurship focuses on recognizing a business opportunity, starting a business based on the recognized opportunity, and operating and maintaining that business. This course includes planning and strategy concepts, financial and organizational considerations, accounting and financial controls, and other components of business operation. The course will include workplace skills such as time management, money management, materials management, human resources management, facilities management, teamwork, decision-making, problem solving, negotiations, work ethics, and creative thinking.</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
Math Analysis	Math - G	1	11-12
<p>Major Concepts/Content: This course will involve students in units and topics of study of operations with functions and equations, circular functions, vectors, applications of matrices, complex and polar coordinates, recursion, advanced proof ideas, rates and areas, statistical interference, algebra and algorithms. Problem solving in real world applications involving these units of study will be the beginning and focal points of lessons. Connections will be made of graphs with equations with real world situations. Reasoning in trigonometry, probability, discrete math, mathematical structure, and the conceptual underpinnings of calculus is a major emphasis in this course.</p>			
Painting	Fine Arts - G Prereq: Fundamentals	1	10-12
<p>Major Concepts/Content: The painting course is designed for students who want to develop skills in one or more painting media. The media may be oils, acrylic, watercolor or tempera. Students will receive instruction in the techniques and history of various painting styles. Projects and exercises will help students develop the skills and understanding necessary for personal expression. Emphasis will be placed on color theory, painting techniques, and other skills appropriate to the medium.</p>			
PE-Activity and Nutrition	PE - G	0.5	9-12
<p>Major Concepts/Content: This one semester physical activity and nutrition course is required for graduation. This course provides a variety of opportunities for students to experience alternative, non-competitive physical activities. It is designed to enable students in grades nine through twelve to develop the movement skills and conceptual knowledge necessary to implement a personal physical activity and nutrition plan. Students participate in non-competitive physical activity and meal planning with pre and post physical activity and nutrition assessments.</p>			
PE-Lifetime Sports	PE - G	0.5	9-12
<p>Major Concepts/Content: This semester course, which is required for graduation, is designed to enable students in grades nine through twelve to develop the movement skills, conceptual knowledge, and attitudes for enjoyable sports participation throughout life. The focus is on teaching and improving the specialized motor skills and tactical knowledge unique to a variety of selected lifetime sports activities.</p>			
PE-Personal Fitness	PE - G	0.5	9-12
<p>Major Concepts/Content: This semester course, which is required for graduation, is designed to enable students in grades nine through twelve to develop the movement skills and conceptual knowledge and attitudes to make the personal physical fitness decisions of adolescent. Developmentally appropriate concepts of movement, physical fitness, and personal and social development are included in this course. Students apply appropriate information and problem solving that will help them achieve an individual, optimal level of fitness and help them stay fit for a lifetime. The course focuses on why fitness is important, what an individual's exercise and activity needs are and how to assess them, and how to exercise safely.</p>			
Physics	Laboratory Science - G Prereq Algebra II	1	11-12
<p>Major Concepts/Content: Physics presents basic concepts of physics in relation to world experiences. Information is presented in an integrated approach, linking physics with technology, social perspectives, and the history and nature of science. Physics is designed to provide an understanding of the physical laws fundamental to all sciences. Fundamental laws of mechanics are introduced, along with measurement and problem-solving techniques. Other topics included are wave theory, heat, sound, light, magnetism, electricity, atomic structure, nuclear reactions, and high energy physics.</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
Physics Apps in the Community	Laboratory Science – G	1	9-12
<p>Major Concepts/Content: Introduction to Physics presents concepts of physics in relation to world experiences. Information is presented in an integrated approach, linking physics with technology, social perspectives, and the history and nature of science. The course presents a thematic approach to physics using explorations of topics. Kinematics and dynamics are introduced by studying the physics of sports and transportation systems. Communication and information technologies are used to examine wave theory, light, and sound. Electrical and thermal energy topics are studied within the context of the home, as well as on a global scale. Applications of physics to health and medicine provide opportunities to study x-rays, CT scans, and ultrasound. Scientific predictions, such as those associated with radioactive decay, Newton's first two laws, the Law of Universal Gravitation, and special relativity, are contrasted with non-scientific views in order to highlight the characteristics of good science.</p>			
Presentation & Publications	Computers/PTS – G	0.5	10-12
<p>Major Concepts/Contents: Presentations and Publications is an introductory course designed for students with an interest in special topics to include desktop publishing, electronic presentations, imaging, web page design and graphics. This course will equip the student with the necessary technology tools for personal use, employment and advanced education.</p>			
Presentation Software Apps	Career/Computer/PTS - G	0.5	10-12
<p>Major Concepts/Content: Presentations Software Applications provides students with the opportunity to develop professional level skills in presentations software. Microsoft PowerPoint Certification Course</p>			
Printmaking	Fine Arts - G Prereq Fundamentals	1	10-12
<p>Major Concepts/Content: The printmaking course is designed to offer students the opportunity to apply the fundamentals of art to various printmaking processes including relief (linoleum and woodcuts), stencil (paper and silkscreen, lithography, intaglio (etching and engraving), and calligraphic printing. Students gain knowledge of the materials and equipment that are unique to printmaking.</p>			
Psychology	Social Studies Elective - G	0.5	11-12
<p>Major Concepts/Content: The psychology course is designed to be a one-semester elective course offered at the eleventh and twelfth grades. This study of the behavior of human beings focuses on physical characteristics, cognitive activity, emotional states, and social interaction. Students study the stages of human development, motivational theory, theories of personality, and mental wellness and illness.</p>			
Publication Software Apps	Computer/Career/PTS - G	1	9-12
<p>Major Concepts/Contents: Publication Software Applications is a course designed for students with an interest in desktop publishing. This course will prepare the student for the InDesign Certification Exam as well as provide training in the software for personal use, employment, and advanced education. Students will use modules to learn the Adobe InDesign software application and create projects. The publication modules include but are not limited to the following options: Basic Graphic and Layout Designs, Graphic and Layout Design, Imaging Process, and Creating Publications. Assessment will be accomplished by checking student work in progress to ensure that timelines are developed and followed throughout the course. The students must also successfully complete all projects deemed appropriate by the facilitator. Microsoft InDesign Certification Course</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
Reading Lab Major Concept/Content: Improve reading achievement for students not reading at grade level through the use of a whole group instructional model with small group rotations.	ELECTIVE	1	9-12
Science Research DL Major Concepts/Content: Science Research is a Distance Education course designed to teach scientific research by having students design and conduct research within or outside a laboratory setting. As part of their research, students use telecommunication to communicate with an experienced researcher and other students and adults; to access information via databases; to access software used to analyze data; and to produce a project for submission to the Junior Science and Humanities Symposium. Science Research is conducted using an integrated approach with science as inquiry, science & technology, science & social perspectives, and the history & nature of science.	Laboratory Science - G	1	10-12
Sculpture Major Concepts/Content: The sculpture course is designed to offer students the opportunity to demonstrate an interest in art through working with three-dimensional forms. Students will acquire a broad knowledge of basic sculpting techniques using the additive, subtractive, modeling, and molding methods. Exercises will develop the student's perception of form and space.	Fine Arts - G	1	10-12
Shakespeare Major Concepts/Content: The Shakespeare course is designed to familiarize, and, in many cases, introduce the student to in-depth and extended study of the writings, life, times, and art of Shakespeare and the theory and practice of literary criticism.	ELECTIVE	1	10-12
Spanish I, II, III, IV The foreign language courses are designed to teach students to pronounce and discriminate among the various vowel and consonant sounds and respond to and to imitate authentic patterns of intonation, rhythm, and pronunciation. Students learn to give simple oral and written information by using appropriate learned vocabulary, word order, and grammatical forms, and to read silently and aloud with comprehension. The major linguistic principles and language skills covered in Italian include the following: usage of singular and plural nouns and interrogative, definite, indefinite, demonstrative and possessive adjectives; identifying and using the active voice in the indicative mood; identifying and using the imperative, the future tense, all forms of the past tense, progressives, and the subjunctive mood; identifying and using subject pronouns, direct object pronouns, indirect object pronouns, and the emphatic, reflexive, interrogative, demonstrative, and relative pronouns; identifying and using the most common prepositions; identifying and using comparison of adjectives; and identifying and using the formation of adverbs. As students progress through the levels, fluency and independence in speaking and writing is emphasized.	Foreign Language - G	1	9-12
Speech Major Concepts/Content: The speech course is designed to Prepare students to create speeches that reflect careful thought in planning, organization, and delivery. The content includes, but is not limited to, identifying the purpose and audience for the speech; selecting the general topic and refining to a specific topic; making a statement of the thesis; selecting appropriate resources and information; outlining; creating a bibliography; selecting main points and supporting information; preparing the appropriate visual aids; modifying information for a particular audience; writing introductions and conclusions; using appropriate delivery techniques; evaluating delivery, content, and pattern of organization using specified guidelines; delivering oral or written critiques; and evaluating a speech according to established criteria. When the school elects to offer the course for 36 weeks, the second semester will fo-	ELECTIVE	1	10-12

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
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cus primarily on debate. Content includes, but is not limited to, learning to appreciate the value of debating and the skills needed for it; using proper debating technique, including three types of formal debate -Lincoln-Douglas, formal college debating, and formal debating with cross-examination; writing and delivering constructive speeches, rebuttals, and cross-examinations; and researching a topic thoroughly.

Spreadsheet Software Applications	Computer/Career/PTS	1	10-12
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Major Concepts/Content: Spreadsheet Software Applications provides students with the opportunity to develop professional level skills in spreadsheet software. of the selected application, students will be able to demonstrate the following essential objectives: Use spreadsheet software to demonstrate a thorough understanding of working with cells and cell data, managing workbooks, formatting and printing worksheets, modifying workbooks, creating and revising formulas, creating and modifying graphics, and workgroup collaboration; Analyze and evaluate solutions; Maintain files appropriately; Demonstrate an understanding of security and risks; Demonstrate basic knowledge of operating systems; Demonstrate information literacy skills; and Understand the concepts of ethical issues as related to information systems (e.g. privacy, property, and access).

Street Law	Social Studies Elective - G	0.5	11-12
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Major Concepts/Content: The street law course is an elective one-semester or yearlong course designed to provide students with knowledge about law that is of practical use in their everyday lives. Students will learn how every purchase, lease, contract, marriage, divorce, crime, or traffic violation places them face-to-face with the law. Depending on the length of the course, topics will include an introduction to law and the legal system, criminal law, torts, consumer law, family law, housing, and individual rights and responsibilities. Students will study some of the current issues and controversies relating to the law and legal system. Students will learn the different methods of solving legal problems, including negotiation, mediation, and the trial process. An effort will be made to make the course relevant to students in DoDEA schools by including special lessons that compare American and the host nation's law and instruct students in the basics of the Code of Military Justice.

Studio Art	Fine Arts - G Prereq Fundamentals	1	10-12
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Major Concepts/Content: The studio art course is designed either as units of study in various media, or as an individualized course for advanced students. Students who would like to develop skill in several media would benefit from this course. Students can concentrate on selected media by choosing activities from a wide range of options such as drawing, watercolor painting, acrylic painting, oil painting, sculpture, ceramics, commercial art, creative crafts, lettering, printmaking, and mixed media.

US Government	Government - G	0.5	12
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Major Concepts/Content: The United States government course is a required one semester course designed to provide students with essential knowledge, skills, and attitudes related to the nation's government and its historical development. The students review the purpose and function of government that they studied in eighth and eleventh grade. Major emphasis is on the structure of the federal government, political responsibility and participation, and state and local government. Some attention is given to economic systems and alternative political systems. Comparison with the host nation's government is encouraged as a part of the program.

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
US History	US History - G	1	11
<p>Major Concepts/Content: The United States history course at the eleventh grade level is designed to be a required one-year course, with emphasis on our nation's history from Reconstruction to the present. Both basic and advanced social studies skills receive emphasis. This course builds on the eighth grade U.S. history course that concentrated on the pre-Columbian period to reconstruction. The first quarter is used to review, reinforce, and expand the student's knowledge of pre-civil War United States. The remaining quarters concentrate on post-Reconstruction to the present, influences of and relations with the host nation during these periods are explored as part of the course.</p>			
VB Program I-DL	Computer/PTS - G Prereq	0.5	10-12
<p>Major Concepts/Content: Programming in Visual BASIC I is a one-semester course that will use the Visual BASIC Language. The emphasis of this course is to write computer programs to solve complex problems.</p>			
VB Program II-DL	Computer/PTS - G Prereq	0.5	10-12
<p>Major Concepts/Content: Programming in Visual BASIC II is a one-semester course designed to be a continuation of Visual BASIC I. The emphasis of this course is to write computer programs to solve complex problems.</p>			
Video Comm I	Career/Computer/PTS - G	1	10-12
<p>Major Concepts/Content: The Video Communications I course for students in grades 9 through 12 is designed to introduce students to the concepts and equipment related to video production. Through a hands-on, project oriented approach, students will apply knowledge on filming, composition, linear/non-linear insert editing, lighting, storyboarding, audio and computer graphics/effects in order to communicate effectively using the video.</p>			
Video Comm II	Career/Computer/PTS - G	1	11-12
<p>Major Concepts/Content: The Video Communication II course expands on the student's application of skills developed in the first course. Students will use the project-oriented approach to refine their video production techniques while exploring concepts related to, but not limited to, studio production, on-site editing, video switching, lighting, scriptwriting, computer graphics, interview techniques, and computer based digital video processing.</p>			
Video Comm III	Career/Computer/PTS - G	1	12
<p>Major Concepts/Content: The Video Communications Seminar course will expand on the student's ability to apply concepts and skills learned in the first two courses. Students will continue to refine their video production skills while completing video communication projects at a quality level consistent with post secondary programs or entry level in the career field. Students will construct studio and/or on-site editing situations and assist others with the application of video communication concepts.</p>			
Web Site Dev-Mgt	Career/Computer/PTS - G	0.5	10-12
<p>Major Concepts/Content: In Web Site Development & Management, students will design, implement, and manage a web site. This is a hands-on laboratory course designed to teach students the concepts, skills and processes involved in web site development and management.</p>			
WordProcessing Software Apps	Career/Computer/PTS - G	0.5	10-12
<p>Major Concepts/Content: Word Processing Software Applications provides students with the opportunity to develop professional level skills in word processing software. Microsoft Word Certification Course</p>			

<i>Course Title</i>	<i>Curricular Area</i>	<i>Credit</i>	<i>Grade</i>
World History	Social Studies Elective - G	1	9-12
<p>Major Concepts/Content: The world history course is designed to build on the content in the seventh and ninth grade geographical and cultural studies by studying the historical development of these cultures. The course continues the chronological study of ancient world civilizations begun in grade six. After an overview of the Early Ages, the course emphasizes the period from the Middle Ages to the contemporary world. Using the multidisciplinary approach, world history is a balanced program, not just a history of Western Europe. Attention is given to Europe, Asia, Africa, North and South America. The host nation's history and culture are used for comparison.</p>			
World Regions	Social Studies Elective - G	1	9-12
<p>Major Concepts/Content: The world regions/cultures course is designed to study other cultures so students can understand the global community in which they live. Students develop skills necessary to analyze change and continue the study of cultures and geography begun in the sixth and seventh grades. An overview of physical geographic concepts and skills is basic to this course. Its emphasis is on the cultures of the Southwest Asia (Middle East), Africa, South Asia, Central Asia, East Asia, Southeast Asia, and Europe. The host nation culture is studied and used as a basis of comparison.</p>			
Yearbook Prod I, II	ELECTIVE	1	10-12
<p>Major Concepts/Content: The yearbook production course is a practical course designed to produce the official yearbook for the school. All phases of yearbook production, including photography, copy writing, page layout, and book and advertisement sales are included. The concept of accurate photojournalism is balanced with the need to present the events, activities, and personalities of the school year in a positive manner.</p>			

*Professional /
Technical
Endorsement
Programs*

Professional Technical Studies Endorsements

Aviano High School offers certificates in the following programs. Students must complete four (4) Carnegie units (credits) in each pathway. Please refer to the list of required and recommended courses for each certificate on the following pages. **Only required and recommended courses count towards the certification credits. Related courses do not count towards certification.**

Architecture & Construction

- Design/Pre-Construction

Arts, A/V Technology & Communications

- Audio & Video Technology & Film
- Journalism and Broadcasting

Business, Management & Administration

- Business Financial Management & Accounting
- Management
- Marketing
- Administration and Information Support

Information Technology

- Information Support and Services
- Interactive Media
- Programming/Software Engineering
- Network Systems

Science, Technology, Engineering & Math

- Engineering & Technology

Italics denotes that class is not offered at AHS

Cluster: Architecture & Construction
Pathway: Design/Pre-Construction

Required Courses	Potential Credit
Applied Architectural Design/CAD	1
Recommended Courses	
<i>Principles of Engineering</i>	.5
Engineering Drawing	.5-1
Engineering Design/Development	1
Computer Animation	1
Architectural Drawing	.5-1
Math Analysis	1
Physics	1
Career Practicum (Pathway related)	1

Cluster: Arts, A/V Technology & Communication
Pathway: Audio & Video Technology & Film

Required Courses	Potential Credit
Video Communications I	1
Video Communications II	1
Recommended Courses	
Video Communications III	1
Interactive Multimedia	1
Career Practicum (Pathway Related)	1
<i>Tech Leadership Community</i>	1

Cluster: Arts, A/V Technology & Communication
Pathway: Journalism & Broadcasting

Required Courses	Potential Credit
Speech or Journalism I	1
Video Communications I	1
Recommended Courses	
Video Communications II	1
Drama	1
Journalism I	1
Speech	1
Word Processing Software Applications	.5
Career Practicum (Pathway Related)	1

Cluster: Business, Management & Administration
Pathway: Business Financial Management & Accounting

Required Courses	Potential Credit
Accounting I	1
Accounting II	1
Recommended Courses	
Mgmt International Business	1
Business Law	1
Word Processing Software Applications	.5
Presentations Software Applications	.5
Spreadsheet Software Applications	1
Career Practicum (Pathway Related)	1
Database Software	1

Cluster: Business, Management & Administration
Pathway: Management

<u>Required Courses</u>	<u>Potential Credit</u>
Mgmt International Business	1
Marketing and Entrepreneurship	0.5
<u>Recommended Courses</u>	
Accounting I	1
Database Software Applications	1
Spreadsheet Software Applications	1
Business Law	1
Publication Software Applications	1
Career Practicum (Pathway Related)	1

Cluster: Business, Management & Administration
Pathway: Marketing

<u>Required Courses</u>	<u>Potential Credit</u>
Marketing and Entrepreneurship	1
Publication Software Applications	1
Mgmt International Business	.5
<u>Recommended Courses</u>	
Accounting I	1
Word Processing Software Applications	0.5
Presentations Software Applications	0.5
Business Law	1
Imaging Software Applications	1
Marketing and Entrepreneurship	0.5
Mgmt International Business	.5
<i>Computer Art</i>	1
Career Practicum (Pathway Related)	1

Cluster: Business, Management & Administration
Pathway: Administration and Information Support

<u>Required Courses</u>	<u>Potential Credit</u>
Word Processing Software Applications	0.5
Spreadsheet Software Applications	0.5
Presentations Software Applications	0.5
<u>Recommended Courses</u>	
Database Software Applications	1
Accounting I	1
Mgmt International Business	1
Website Development/Management	0.5
Publication Software Applications	1
Imaging Software Applications	1
Spreadsheet Software Applications	0.5
Career Practicum (Pathway Related)	1

Cluster: Science, Technology, Engineering & Mathematics
Pathway: Engineering & Technology

<u>Required Courses</u>	<u>Potential Credit</u>
Engineering Drawing/CAD	1
<u>Recommended Courses</u>	
<i>Digital Electronics I or II</i>	0.5
Engineering Design/Development	1
<i>Principles of Engineering</i>	.5
Applied Architectural Design/CAD	1
Computer Animation	1
Java I & II DL	0.5 - 1
Visual Basic Programming I & II	0.5 - 1
AP Computer Science A or AB DL	1
Engineering Design & Tech I and II	1 - 2
Advanced Computer Studies	0.5
Cisco Networking I & II	1 - 2
Math Analysis	1
Physics	1
Career Practicum (Pathway Related)	1

Cluster: Information Technology
Pathway: Information Support and Services

<u>Required Courses</u>	Potential Credit
Computer Services & Support	1
Java I / Distance Learning (DL) <u>or</u> Visual BASIC Programming I - Distance Learning (DL) <u>or</u> <i>Digital Electronics I</i>	1
<u>Recommended Courses</u>	
<i>Principles of Engineering</i>	0.5
<i>Digital Electronics I or II</i>	0.5
Visual BASIC Programming I & II DL	0.5 - 1
Java Programming I & II DL	0.5 - 1
Word Processing Software Applications	0.5
Presentations Software Applications	0.5
Spreadsheet Software Applications	1
Website Development/Management	0.5
AP Computer Science A or AB DL	1
Cisco Networking I	1
Database Software Applications	1
Career Practicum (Pathway Related)	1

Cluster: Information Technology
Pathway: Interactive Media

<u>Required Courses</u>	Potential Credit
Interactive Multimedia	1
Website Development/Management	0.5
Publication Software Applications	1
<u>Recommended Courses</u>	
Computer Animation	1
Journalism I	1
Video Communications I	1
Marketing & Entrepreneurship	1
Yearbook Production	1
Fundamentals of Art	1
Imaging Software Applications	1
Career Practicum (Pathway Related)	1

Cluster: Information Technology
Pathway: Network Systems

<u>Required Courses</u>	Potential Credit
Cisco Networking I	1
Cisco Networking II	1
<u>Recommended Courses</u>	
Computer Services & Support	1
<i>Digital Electronics I or II</i>	0.5
Visual BASIC Programming I & II DL	0.5 - 1
Java Programming I & II DL	0.5 - 1
AP Computer Science AB DL	1
Fundamentals of Art	1
Algebra II	1
Career Practicum (Pathway Related)	1

Cluster: Information Technology
Pathway: Programming/Software Engineering

<u>Required Courses</u>	Potential Credit
Java I & II /DL <u>or</u> Visual BASIC Programming I & II /DL <u>or</u> AP Computer Science A or AB DL <u>or</u> Advanced Computer Studies	1 1 1 0.5
<u>Recommended Courses</u>	
Visual BASIC Programming I & II DL	0.5 - 1
Java Programming I & II DL	0.5 - 1
AP Computer Science A or AB DL	1
Website Development/Management	0.5
Algebra II	1
Career Practicum (Pathway Related)	1