

# **AVIANO HIGH SCHOOL**

# COURSE DESCRIPTION BOOKLET

# 2012-2013

#### **Contents:**

- Graduation requirements
- Honors Diploma Requirements
- · Course descriptions
- Career Technical Endorsements

REV: 6 SEPTEMBER 2012

#### 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 the 2012-2013 school year. Please pay particularly close attention to the graduation requirements.

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 standard-ized testing, pay attention to the support courses offered in math and reading.

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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Curricular Area	Credits Required
Language Arts (English)	4
Social Studies	3
Mathematics	3
Science	3
Foreign Language	2
Fine Arts	1
Physical Education Personal Fitness, Activity and Nutrition and Lifetime Sports	1.5
Health	0.5
Career Technical ED Electives	2 6
	0
TOTAL	26

#### Graduation Requirements

\*\* 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.

• In the course descriptions, a "G" following the curricular area designation 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 History 9,10; Honors World History 9,10; United States History; AP US History; US Government; Economics; AP Psy- chology; Street Law; Sociology
Mathematics	Algebra I; Algebra II; Algebraic Modeling; Geometry; Discrete Mathematics; Mathematical Analysis/Pre-Calculus; AP Calculus AB; AP Statistics-DL
Science	Biology; Environmental Science; Chemistry; Physics Applications in the Community; Physics; Human Anatomy & Phys; AP Biology; AP Physics B-DL; Marine Biology - DL; AP Chemistry DL+
Foreign Language	Italian I, II, III, IV; Spanish I, II, III, IV; AP German-DL; AP French-DL; AP Spanish-DL
Fine Arts	Fundamentals of Art; Studio Art; AP Studio Art 2D Design; Drama Theater; Humanities; Beginning Band; Intermediate Band; Advanced Band, Guitar I, II
Physical Education	PE/Personal Fitness, PE /Activity and Nutrition; PE/Lifetime Sports; Conditioning
TECH COMP AIR F VIDEO	<ul> <li>Health Ed</li> <li>NESS: Accounting I, II; Word Processing Software Applications (Microsoft Word); Business &amp; Personal Finances; Marketing &amp; Entrepreneurship; Mgmt International Business; Business Law; Presentation Software Applications (PowerPoint); Spreadsheet Software Applications (Excel);</li> <li>NOLOGY: Architectural Drawing; Applied Architectural Design/CAD; Engineering Drawing/CAD; Engineering Design and Development; Engineering Design and Tech I; Computer Animation; Computer Service and Support; Research Project Tech ; Gaming Technology I &amp; II</li> <li>PUTERS: Advanced Computer Studies; AP Computer Science A &amp; AB-DL; Business Networking; Digital Imaging; Digital Media; Java Programming I, II-DL; Digital Publishing; Visual Basic I, II-DL; Web Design; Home Networking; Computer App I</li> <li>ORCE JROTC I, II, III, IV</li> <li>OCOMMUNICATION I, II, III</li> <li>ER PRACTICUM I, II, III (Seniors ONLY);</li> </ul>
Electives	AVID 9, 10, 11, 12; AVID Tutor 11, 12; Yearbook Production 9, 10, 11, 12; Speech 9, 10, 11, 12; Reading Lab 9, 10, 11, 12; Algebra I Lab I; Math Lab (Alg II); Geometry Lab; Learning Strats

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

**Aviano High School** 

# Course Descriptions

Course Title	Curricular Area	Credit	Grade
Accounting I	Career/PTS - G	1	10-12
	Accounting I introduces students to accepted accounts for service and merchandising businesses. Additionics.		
Accounting II	Career/PTS - G	1	11-12
	Accounting II expands the accounting concepts lear ts, accounting procedures for manufacturing busine n greater depth.		
Advanced Comp Studies	Computer/Career/PTS - G	0.5	11-12
lem solving and program	Advanced computer studies is a one-semester cour documentation will be emphasized. Students will wr anguages to include, but not limited to, Java, SmallT	ite original computer programs. Students will	choose from a variety of
Advanced Band	Fine Arts - G	1	9-12
but is not limited to, the fo pendent performance of a	The advanced band course is designed to acquaint llowing: the interpretation and analysis of musical so ill major and minor scales; advanced rhythm pattern e, including style, periods, forms, electronic music; in nusical composition.	cores; the application of musical nuances in s; performance as a soloist and in small and	playing from a score; inde- large group ensembles; a
Air Force JROTC I, II, III, IV	Career/PTS - G	1	9-12
space environment. 40% and contemporary aviation ry. <b>Leadership</b> is 40% of leadership, followership, o gram consists of <b>Wellnes</b> Wellness includes CPR and also included as well as a	The Air Force Junior ROTC course is designed to a of the classroom hours cover <b>Aerospace Science</b> , n. Also included are the human requirements of flig the program and develops basic leadership skills/liticitizenship, customs and courtesies, time managements are the program provides a standardized but varied and First Aid certification, weekly physical fitness exert formal Military Ball, Dining-In and Awards Night. Muth written and oral reports.	i.e. the origins of flight, development of air p ht, space environment, space programs, spa fe skills, and career paths. Emphasized are ent, study habits and corps activities. The re curriculum that offers substantial individual prcise classes and nutrition classes. Curriculu	ower, military aerospace ace technology and rocket- discipline, responsibility, maining 20% of the pro- health improvements. um-in-action field trips are
Algebra I	Math - G	1	9-12
matics program. It expand problem solving, reasonin	This course may be the most common entry level or Is upon basic algebraic concepts previously acquire g, communication and making connections are emp ships, and will use geometry to represent algebraic r	d and integrates those principles with everyc hasized. Students will use formulas, functior	lay life. The processes of ns, and equations to de-



Course Title	Curricular Area	Credit	Grade
into mostly an atting the man			

into mathematical forms, solve first and second degree equations, and use the concept of a function to model real-world phenomena.

Math - G

Math - G

Math - G

Algebraic Modeling

AP Calculus AB\* or DL

ELECTIVE 9-12 Algebra I Lab I 1 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 relation-ships, 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.

1

0.5

1

1

10-12

9-12

12

Algebra II 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, guadratic 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.

Major Concepts/Content: Algebraic Modeling will help students understand the connection between math and their daily lives. Students will explore Algebra 1 topics such as linear, quadratic, exponential and piecewise functions by modeling real world situations. Students will identify key characteristics, represent problems algebraically and graphically, determine lines/curves of best fit and make predictions. Concepts and solutions are presented in non-threatening, easy-to-understand language with numerous examples to illustrate ideas. Whether the student will go on to study early childhood education, graphic arts, automotive technologies, criminal justice or something else, the student will discover that the practical applications of mathematical modeling will continue to be useful well after they have finished this course.

AP Biology\* Laboratory Science - G 11-12 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 laboratoryscience course and be able to undertake other courses to pursue their majors.

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.



Course Title	Curricular Area	Credit	Grade
AP Calculus BC-DL*(See yo	our Counselor) Math - G	1	12
AP Comp Sci A/AB-DL*	Computer/PTS - G	1	11-12
The Advanced Placemer Science A is a subset of problem solving and algo of data structures and ab includes all the topics of	The course description for the advanced placement on the Program offers two computer science courses: Com- the content of Computer Science AB. Computer Scien- prithm development and is meant to be the equivalent pstraction, but these topics are not covered to the exter Computer Science A, as well as a more formal and in- n Computer Science AB but not in Computer Science	nputer Science A and Computer Science AE nce A emphasizes programming methodolo of a first-semester course in Computer Scien that they are covered in Computer Scien -depth study of algorithms, data structures,	3. The content of Computer gy with a concentration on ence. It also includes the stud ce AB. Computer Science AB
P Chemistry-DL*	Laboratory Science - G	1	11-12
age, the type of laborator	AP Chemistry is a college-level on line course which ry work and time commitments for study. The topics in al (http://apcentral.collegeboard.com).		
P English Language*	Language Arts - G	1	11-12
and rhetorical contexts a dents aware of the intera	Language and Composition engages students in beco and in becoming skilled writers who com-pose for a va actions among a writer's purposes, audience expectat tribute to effectiveness in writing.	riety of purposes. Both their writing and the	ir reading should make stu-
AP English Lit* or DL* (sp.	cases) Language Arts - G	1	11-12
Through the close reading pleasure for their reader	Literature and Composition should engage students in ig of selected texts, students should deepen their under s. As they read, students should consider a work's str e, imagery, symbolism, and tone.	erstanding of the ways writers use language	e to provide both meaning and
AP French-DL*	Foreign Language-G	1	11-12
French Composition and involve the skills of listen	E: AP French Language is equivalent to fifth and sixth s Conversation courses. The 5 domains of learning (Co ing, speaking, reading, writing, and developing cultura tegrate their language skills. Authentic materials and r	ommunication, Cultures, Connections, Com al awareness appropriate to this level of cou	parisons, and Communities) Irsework. Students will gain

Course Title	Curricular Area	Credit	Grade
AP German-DL*	Foreign Language-G	1	11-12
cies: Having a strong cor	emphasizing use of the language for active communical mmand of vocabulary and structure; Understanding spo ontemporary fiction, and non-technical writings without	oken German in various conversational situ	uations; Reading newspaper
AP Physics B-DL*	Laboratory Science - G	1	11-12
It is assumed that the st basic concepts of calcul neering courses. However	ovides a systematic introduction to the main principles udent is familiar with algebra and trigonometry; calculu us. In most colleges, this is a one-year terminal course er, the B course provides a foundation in physics for stu t directly related to science.	s is seldom used, although some theoretic and is not the usual preparation for more	al developments may use advanced physics and engi-
AP Psychology	Social Studies - G	1	11-12
havior. Topics studied w logical disorders, and the the biological basis of be	concepts will be explored using the research methods exithin this course will cover the range of theoretical pers erapeutic approaches. Students will learn to evaluate in havior, learning, and memory and consciousness, deve to identify biological, cognitive, social, and abnormal ch	pectives and applications to the interpreta formation obtained from empirical researc elopment, and the social nature of human	tion of personality, psycho- h regarding topics such as
through three modes: into communication). This con- tions, Comparisons, and awareness appropriate to basis. This course is ope tures through prior appro- quired text. The instructo ments. The resources list	Foreign Language-S ge Course is a college level course, conducted primaril erpretive (receptive communication), presentational (1- urse emphasizes the five domains of learning found in a Communities. These 5 domains of learning involve the o this level of coursework. In both writing and speaking n to all interested students with the expectation that the priate sequence of study or equivalent experience. The r has read the most recent AP Spanish Course Descrip ted in this syllabus are in accordance with those sugge e College Board website. Students are required to take	way productive communication), and interpour Foreign Language Standards: Communication, stills of listening, speaking, reading, writing students are using higher level analytical explave a solid knowledge of the Spanish le course uses authentic materials and resolution and this course adheres to the Collegisted by the May 2007, May 2008 "AP Span	bersonal (2-way interactive nication, Cultures, Connec- ng, and developing cultural thinking skills on a regular anguage and Hispanic cul- burces along with the re- ne Board Curricular Require- nish Language Course De-
AP Statistics-DL*	Math - G	1	12
Major Concepts/Content	The concepts and content for AP Statistics incorporate	e the syllabus of the College Board. The to	pics for AP Statistics are
	emes: exploratory analysis, planning a study, probabili techniques to study patterns and departures from patter		

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.



Course Title	Curricular Area	Credit	Grade
P Studio Art 2D Design	Fine Arts - G	1	10-12
use to express themselves	Students will explore the elements of art (color, valu . The principles of design (balance, contrast, propo w to organize the elements on an image plane in o	ortion, pattern, rhythm, emphasis, unity, and	
pp Arch Design	Career/Computer/PTS - G Prereq	1	9-12
	applied Architectural Design Students will become pop a design solution for a client. They will design p g certification.		
P US History	Social Studies - G	1	12
demands upon them equiv relevance to a given interp ship. An AP U.S. History c	and materials in U.S. history. The program prepare alent to those made by full-year introductory colleg retive problem, reliability, and importance—and to burse should thus develop the skills necessary to a rly and persuasively in essay format.	e courses. Students should learn to assess weigh the evidence and interpretations pres	historical materials—their ented in historical scholar-
rchitectural Draw/CAD	Career/Computer/PTS- G	1	9-12
interior designers use. Stu the new skyscraper to repl project. Vacation Home P	Architectural Drawing/CAD provides students an op dents will learn to use Auto Desk Revit which is a le ace the twin towers in New York City. Design proje roject: Students will find a client and design a vacat efficient design that fits the location and design st	eading edge design tool that was used in de cts include designing a design studio, vacat tion home to meet the client's needs and ge	signing "Freedom Towers" ion home and a group design
VID 9, 10, 11, 12	ELECTIVE	1	9-12
and writing as a tool of lea	VID (Advancement Via Individual Determination) is rning. In addition to inquiry and collaboration, AVID c reading, library research, test taking skills, and stunn n in all classes.	also provides students with academic survi	val skills, i.e., time manage-
vid Tutor	ELECTIVE	1	11-12
to work in a collaborative s	he AVID Tutor program is designed to train studer etting with students enrolled in the AVID program. hodologies used in AVID: writing as a tool for learn	Tutors will undergo a training period in whic	h they will learn to effectively

Course Title	Curricular Area	Credit	Grade
tone production, articulation, t	Fine Art—G beginning band course is designed to introduce preath control, pitch discrimination; melodic and i ariety of instrumental repertoire; opportunities for	rhythmic concepts and patterns; practice skill	s and habits; solo, ensemble
ology	Laboratory Science - G	1	9-12
inquiry, science & technology processes of systems, order &	ogy is designed to provide students with an integ , science & social perspectives, and the history & & organization, evidence, models & explanation, hiry are emphasized through practical implication	a nature of science. The course integrates un change, consistency & equilibrium; and form	ifying science concepts and
usiness Law	Career/PTS- G	1	11-12
as applied to society and to th	iness Law provides the student with a survey of the individual. Topics include the judicial system, of the individual system, of the individual system, of the individual system, or the sole proprietorship, partnerships, and corport	contracts, warranties, guarantees, consumer	
usiness Networking	Professional Tech	1	9-12
field or for further technology	s second course prepares students to become ne study. This course includes field experience in ne he student to pass the Cisco Certified Network A	etwork problem solving. Successful completion	
usiness and Personal Finances	Career/PTS- G	1	9-12
such topics as how to make ir	is course is designed to make students aware of ntelligent decisions in spending and saving; how credit and credit cards; information about bankin	to maintain good financial records; how to av	oid financial disasters that
areer Practicum	Career/PTS- G	1-3	11-12
career goal. Important aspect	eer Practicum is designed to provide school-to-cases are to: Provide students an opportunity to acquisolving skills in the work environment; and develored	ire an understanding of actual employment s	
hemistry	Laboratory Science - G	1	10-12
integrated approach, incorpor	mistry is designed to help students understand t ating advanced topics with science as inquiry, so		ctives, and the history & na-

Course Title	Curricular Area	Credit	Grade
	ons. Topics students' study includes atomic theory an and technology relate to chemistry.	nd structure, chemical bonding, principles of c	hemical reactions, molecula
College Entrance Prep	ELECTIVE	0.5	10-12
Aptitude test. In addition,	The College Entrance Preparation course is designed the course should help students get better acquainted ant test which could result in major implications for fu	ed with the SAT, and in the process, alleviate	
Computer Animation	Computer/Career/PTS - G	1	9-12
dents will use software to	Computer Animation is a project-based course design produce animation, audio, and video productions. S clude designing an animated roller coaster and creation	tudents will work with 3D Studio Max that is u	
tions. This course will eq	Career/Computer/PTS—G is designed to provide the student with the opportunit uip the student with the necessary technology tools lication modules with word processing, database, spi	for personal use, employment and advanced	education. The Cyber Café
Computer Service/Support	Career/Computer/PTS - G	1	9-12
perform shop maintenance port business. The course tributed learning model of course, students will iden	This program is intended to prepare students for cor- ce, repair computers, install operating systems and se e will provide students with concepts and skills necess f instruction provides a blend of instruction with hand tify and use hand tools, PC hardware and software, a puter systems. A number of operating systems also ructional model.	oftware, acquire employment skills, as well as ssary to achieve certification in PC Repair and s-on experiences that reflects current industry and will explore electronics theory. Installation	s operate a service and sup- I Technical Support. This dis / practices. During the n, upgrade and repair will be
Digital Imaging	Career/Computer/PTS— G	1	9-12
using the work area and w managing color, adjusting web. Analyze and evalua operating systems. Demo	emonstrate the following essential objectives: Use in work spaces; importing, exporting and saving; working images; drawing and editing; painting; retouching; u te solutions. Maintain files appropriately. Demonstrate onstrate information literacy skills. Understanding the	ng with sections; creating and using layers; us using actions; working with type; pout putting te an understanding of security and risks. Der	ing masks and channels; to print; and outputting for th nonstrate basic knowledge c
property, and access).			
property, and access). Digital Media	Computers/Careers/PTS - G	1	9-12

Hands-on activities are used	as students develop skills
the World Wide Web using a	dia using animation, sound, uthoring software. Units of in- copyright laws are emphasized
ctivities and alternative resou	9-12 ion and online resources will b rces may be used. Students phic and Layout Design; Imag
1	10-12
in small, or discrete, chunks. y are counting and probability estions investigated in discret	Discrete concepts are used /, graph theory, the mathe-
1	9-12
ntent includes, but is not limite writing; knowledge of the diffe on of drama as a self-reward	
0.5	10-12
. The production, distribution, g, the role of the federal gove	and accumulation of wealth ernment, and comparisons
1	12
ition to an original engineering ne course. As students work o cturing, and robotics technolo	eering curriculum. In this g problem. Each design prob- on their capstone project they gies. Students will also main- s intended as an opportunity fo
	1 tilizing individualized instructi ctivities and alternative resour- ohic and Layout Designs; Grap 1 v of mathematics than as seer- in small, or discrete, chunks. y are counting and probability estions investigated in discrete d you buy a lottery ticket? 1 experience drama as a signific ntent includes, but is not limited writing; knowledge of the diffe- ion of drama as a self-rewardid id the dynamics of interpersor 0.5 naint students with the major of . The production, distribution, ng, the role of the federal gove student, grades ten through to 1 one project for the Pre-Engine- tion to an original engineering he course. As students work of cturing, and robotics technolo

Course Title	Curricular Area	Credit	Grade
	Career/Computer/PTS - G he course Engineering Design & Technology I intro puter and teacher instruction and hands-on real-wo		
Engineer Draw-CAD	Career/Computer/PTS - G	1	9-12
This course is strongly reco	ngineer Drawing/CAD Students will learn to use Au ommended for students aspiring to become engine design projects. With a partner you will design and Competition.	ers, architects, designers, CAD technicians a	nd engineer technicians. Stu
Environmental Science	Science Elective- G	1	9-12
quiry are emphasized throu and energy, ecosystem and ships among economics, po	dels & explanation, change, consistency & equilibring high practical implications and meaningful application alysis, population dynamics, renewable and nonremolitics, ethics, and the environment.	ons. Topics students study include, but are no	t limited to, the laws of matte ironment, and the relation-
Fundamentals of Art	Fine Arts - G	1	9-12
the use of the elements of I fied design through a series	he fundamentals of art course is designed as the b line, Color texture, shape, and space arrangement s of assignments that use a variety of two- and thre aking, ceramics, and sculpture that can be used th	in works of art. Students learn how to compo e-dimensional art media. Course emphasis is	se a balanced, rhythmic, uni- s placed on basic techniques
Gaming Technology I & II	Career/Computer/PTS - G	1	9-12
	he course Gaming Technology I & II introduces stu deo game engines. Students will design two video		dents learn about computer
Geometry	Math - G	1	9-12
properties. Topics of study	his course is designed to develop and promote stu will include deductive reasoning using points, lines res. Algebraic concepts are integrated with the geo e course.	, and planes; segments, angles and triangles	; quadrilaterals; polygons;

Course Title	Curricular Area	Credit	Grade
Geometry Lab I	ELECTIVE	1	9-12
opportunities to develop ships, and to use geome	This class will support and reinforce the basic geo two- and three-dimensional reasoning skills, to und tric models to solve problems. They will build on the methods of justifications. A variety of applications a	erstand coordinate and transformational geome eir problem solving experiences to further devel	etry, trigonometric relation- op their deductive and induc-
notation and rhythm con	Fine Art—GF The guitar I course is designed to introduce studer cepts, major and minor chord recognition, strummin rity in the playing of all strings, variety of guitar repe niment techniques.	g and picking techniques, duple and triple mete	ers, listening skills, guitar
ited to, staff notation and skills, guitar styles and fo	Fine Art—GF The guitar II course is designed to introduce stude rhythm concepts, major and minor chord recognitio orms, familiarity in the playing of all strings, variety o companiment techniques, major and minor scales,	on, strumming and picking techniques, duple an of guitar repertoire, performance as soloists and	d triple meters, listening
Health Ed	Health - G	0.5	9-12
related to health issues le and wellness ethic. Deve co, and other drugs (ATC applying health informati	This required course is designed to help high scho earned in middle school. The focus is on students d elopmentally appropriate concepts of personal and o DD), and family life and human sexuality (FLHS) are on literacy skills, enhancing intrapersonal and interp anagement, and advocacy to promote wellness and	lealing with the world today and preparing for ac community health (PCH), safety (SFTY), mental e taught in this course. Students will utilize healt personal communications, analyzing internal an	dult living based on a health I health (MH), alcohol, tobac- th education concepts when
Home Networking	Career/Computer/PTS - G	1	9-12
for further technology stu complex concepts as sul	This course prepares students to become network dy. The program includes a complete range of basi onet masking rules and strategies. Successful comp cian (CCENT) examination.	ic and advanced networking concepts – from ρι	Illing cables through such
History 9. The emphasis	Language Arts - G ing study of world literature as it ties in with world h is in the class will be on critical reading, analysis, and and oral presentations to the class, will be used. T	d synthesis of information. Various forms of eva	luation, such as in-depth

Course Title	Curricular Area	Credit	Grade
merely by an increase in	quantity. Students taking this Honors class must als	o complete a summer reading and writing assi	gnment.
Honors English 10	Language Arts - G	1	10
tion with Honors World H tion, such as in-depth wri	ing study of world literature as it ties in with world his istory 10. The emphasis in the class will be on critic tten research projects and oral presentations to the erely by an increase in quantity. Students taking this	cal reading, analysis, and synthesis of informati class, will be used. This class is distinguished	ion. Various forms of evalua- by a difference in the quality
Honors World History 9	Social Studies Elective - G	1	9
study that must be taken	This course begins with the study of world history f in conjunction with Honors English 10. The emphas thesis, and evaluation. In both form and subject, the	sis in the class is on the use of higher-level thir	king skills that focus on criti-
Honors World History 10	Social Studies Elective - G	1	10
conjunction with Honors	This course begins with the study of world history i English 10. The emphasis in the class is on the use n. In both form and subject, the materials selected for	of higher-level thinking skills that focus on criti	ical reading, analysis,
motivation for an in-depth & technology, science and processes of system Scientific inquiry and und	ogy Science-G Human Anatomy & Physiology is designed to be an a study of human structures and functions. Informatio & social perspectives, and the history & nature of sci s, order & organization, evidence, models & explana- lerstanding about inquiry are emphasized through pr tive, respiratory, circulatory, excretory, endocrine, an	on is presented in an integrated approach with ience. The course integrates biology and chem ation, change, consistency & equilibrium, and for ractical and meaningful applications. Topics stu	science as inquiry, science histry using unifying concepts orm & function.
Humanities or DL	Fine Arts - G	1	9-12
	The humanities course is designed to bean integrat asis is placed on critical thinking, creativity, and the for and human ideals.		
include, but will not be lin for playing in tune; interm	Fine Arts- G The intermediate band course is designed to acqua nited to, the following con- tent: intermediate to adva nediate to advanced rhythm concepts and patterns; t music; the study of all major and minor scales; the op	nced level sight-reading skills; discrimination c techniques for achieving the essentials of unity	of pitch; absolute essentials , balance, and contrast in

Course Title	Curricular Area	Credit	Grade
spond to and to imitate a appropriate learned voca and language skills cove possessive adjectives; ic past tense, progressives emphatic, reflexive, inter	Foreign Language - G surses are designed to teach students to pronounce an authentic patterns of intonation, rhythm, and pronuncia abulary, word order, and grammatical forms, and to re- ered in Italian include the following: usage of singular a dentifying and using the active voice in the indicative r a, and the subjunctive mood; identifying and using sub rrogative, demonstrative, and relative pronouns; identi- id identifying and using the formation of adverbs. As s isized.	ation. Students learn to give simple oral and we ad silently and aloud with comprehension. The and plural nouns and interrogative, definite, inc nood; identifying and using the imperative, the ject pronouns, direct object pronouns, indirect fying and using the most common prepositions	ritten information by using e major linguistic principles definite, demonstrative and future tense, all forms of the object pronouns, and the s; identifying and using com
Java I-DL	Computers/Careers/PTS - G Prereq	0.5	9-12
	:: Programming in Java is a one-semester course desi develop Java applications and applets. Problem solvir		
Java II-DL	Computers/Careers/PTS - G Prereq	0.5	9-12
	: Programming in Java II is a one-semester course de develop Java applications and applets. Problem solvir		
Language Arts 9	Language Arts - G	1	9
The content includes, bu informal speech; using the locating resources (mag composition, including p identifying with literary c tions and emotions; und	The language Arts 9 course is designed to strengthe to it is not limited to, preparing oral reports in various con- he dictionary and the thesaurus to develop an increas azines, reference sources, films, and microfiche) by u rewriting, drafting, revising, proofreading, and publish haracters of the student's own age, and under-standir er-standing that literature is written at different levels f tudents learn to view reading as a useful and pleasura	ntent areas; using appropriate pitch, stress, jur ingly comprehensive and precise vocabulary in sing indexes, catalogs, and the Reader's Guid ing; writing correspondence using appropriate ing how the characters' actions and emotions re for different purposes and for different audience	ncture and rate in formal and n both speaking and writing; e; practicing the process of forms (business, friendly); eflect the student's own ac-
Language Arts 10	Language Arts - G	1	10
The content includes, bu lary and sentence struct democratic society; usin ary and post-secondary ing research techniques selection (psychological	The Language Arts 10 course is designed to strengt at is not limited to, outlining or mapping main ideas and ure appropriate to the listener and the situation; under g interviewing skills; using parliamentary procedure sl demands; writing a paraphrase, summary, or precise; selecting appropriate sources of information for the t social, environmental); experiencing a wide range of ch facilities; and reading self-selected books to help si	d details of information received aurally or thro standing the importance of speech in influence kills; using formal debating skills; refining test-t writing compositions for newspaper publication opic; understanding and explaining the type of literary forms (e.g., short stories, novels, non-	ugh research; using vocabu ng the course of events in a aking skills to meet second- n; writing a short paper us- conflict in a given literary fiction, poetry, drama); using

Course Title	Curricular Area	Credit	Grade
Language Arts 11	Language Arts - G	1	11
The content includes, bu group and large group di tions in speech; writing e using narration, exposition the use of literary and st major ethnic groups in the	The Language Arts 11 course is designed to streng t is not limited to, developing an increasingly compre- scussion skills; inferring conclusions from a series of ssays responding to social, political, and literary cor on, and/ or description; developing individual criteria vlistic devices; dramatizing literature; experiencing a e U.S. population, including both classic and moder tudents learn to view reading as a useful and pleasu	ehensive vocabulary in conversation and discuss of oral statements; respecting the presence of di incepts; writing resumes; writing compositions of for the aesthetic appreciation of literature; reco- wide range of literary works written in the Unite n works; using the media center research facilit	sion; developing small alects and regional varia- more than one paragraph gnizing and understanding ed States by writers from the
Language Arts 12	Language Arts - G	1	12
The content includes, bu activities; using commun ses; using computer tech ary masterpieces which	The Language Arts 12 course is designed to strengut is not limited to, recognizing how continued developed ication skills in preparing for career choices; using the nology, where hardware is available, as an aid in water the common heritage of all people; engaging in philosophical questions as revealed in literary works	opment of communication skills can enhance or he research skills necessary to meet the deman riting compositions; writing in a clear and perso perceptive reading and critical analysis of Englis	he's future career and leisure ids of post-secondary clas- nal style; responding to liter sh and world literature; en-
Learning Strategies	ELECTIVE	1	9-12
function in a regular clas strategies, following dire	The learning strategies course is designed to introd sroom environment. The content includes, but is not ctions, time-on-task behaviors, use of visual aids, or king strategies, dictionary reference skills and resea	t limited to, the following concepts: time manage ganization of work site, organization of informat	ement, decision-making
Management International B	usiness Career/PTS- G	1	9-12
ciples of organization an economics, finance, mar world trade, the different cultural, economic, and p	This course provides an overview of business as w d management as well as entrepreneurship and ma keting, human resources, and global competitivenes world markets, and the methods used to import and political environments. The course will include workp stening skills, speaking skills, and accessing/ evalua	nagement skills and techniques are covered. Un ss. International Business introduces students t I export goods. Students are taught to think in te place skills such as time management, money m	nits of instructions include o the basic concepts of erms of the different legal,
Marine Biology—DL	Laboratory Science - G	1	10-12
common to the region in science & social perspect organization, evidence, r quiry are emphasized the	Marine Biology is designed to be an elective, introc which the course is offered. Information is presente tives, and the history & nature of science. The cours nodels & explanation, change, consistency & equilib rough practical implications and meaningful applicat communities, seaweeds, plank tonic forms, plankton	d in an integrated approach with science as inquise integrates unifying science concepts and proprium, and form & function. Scientific inquiry and ions. Topics students study include ecological c	uiry, science & technology, cesses of systems, order & I understanding about in- oncepts of the sandy beach

Course Title	Curricular Area	Credit	Grade
riology, marine biological r	esources, and marine pollution. Additional special to	ppics may be selected for study.	
Marketing and Entrepreneursh	ip Careers/PTS- G	1	11-12
struction will include the re bilities of free enterprise w opportunity, and operating tions, accounting and finar	This course enables students to gain a basic unders lationship of products, prices, promotions to the ma II be included. Entrepreneurship focuses on recogr and maintaining that business. This course include icial controls, and other components of business op t, materials management, human resources manag cs, and creative thinking.	rketing of goods and services to consumers nizing a business opportunity, starting a bus s planning and strategy concepts, financial eration. The course will include workplace	b. Ethics and social responsi- iness based on the recogniz and organizational considera skills such as time manage-
Math Analysis/Pre-Calculus	Math - G	1	11-12
vectors, applications of ma algorithms. Problem solvin made of graphs with equat	This course will involve students in units and topics of trices, complex and polar coordinates, recursion, and g in real world applications involving these units of ions with real world situations. Reasoning in trigono ilus is a major emphasis in this course.	dvanced proof ideas, rates and areas, statis study will be the beginning and focal points	tical interference, algebra an of lessons. Connections will
Math Lab (Alg II)	ELECTIVE	1	10-12
	reinforce upper level mathematics courses such as es to further develop their reasoning skills, and deve s will be used.		
PE-Activity and Nutrition	PE - G	0.5	9-12
ties for students to experie the movement skills and co	This one semester physical activity and nutrition counce alternative, non-competitive physical activities. The proceptual knowledge necessary to implement a per y and meal planning with pre and post physical activity	It is designed to enable students in grades sonal physical activity and nutrition plan. Si	nine through twelve to develo
PE-Lifetime Sports	PE - G	0.5	9-12
op the movement skills, co	This semester course, which is required for graduatin nceptual knowledge, and attitudes for enjoyable spatial transformer and tactical knowledge unique to a variety of selection of the selectio	orts participation throughout life. The focus	
PE-Personal Fitness	PE - G	0.5	9-12

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

Course Title	Curricular Area	Credit	Grade
fitness is important, what	t an individual's exercise and activity needs are and how to ass	sess them, and how to exercise safe	ely.
Physics	Laboratory Science - G Prereq Algebra II	1	10-12
proach, linking physics when the physical laws fundant	: Physics presents basic concepts of physics in relation to worl with technology, social perspectives, and the history and nature nental to all sciences. Fundamental laws of mechanics are intro luded are wave theory, heat, sound, light, magnetism, electricit	e of science. Physics is designed to oduced, along with measurement ar	provide an understanding of nd problem-solving tech-
Physics Apps in Comm	Laboratory Science – G	1	9-12
ics using explorations of and information technolo the home, as well as on Scientific predictions, su	s with technology, social perspectives, and the history and natu topics. Kinematics and dynamics are introduced by studying the ogies are used to examine wave theory, light, and sound. Electra a global scale. Applications of physics to health and medicine p ch as those associated with radioactive decay, Newton's first tw scientific views in order to highlight the characteristics of good	ne physics of sports and transportat rical and thermal energy topics are provide opportunities to study x-rays wo laws, the Law of Universal Gravi	ion systems. Communicatio studied within the context of s, CT scans, and ultrasound.
Presentation Software Apps	S Career/Computer/PTS - G	0.5	9-12
	: Presentations Software Applications provides students with the erPoint Certification Course	ne opportunity to develop professior	nal level skills in presentation
Reading Lab 9, 10, 11, 12	ELECTIVE	1	9-12
Major Concept/Content: with small group rotation	Improve reading achievement for students not reading at grades.	e level through the use of a whole g	roup instructional model
Sociology	Social Studies - G	0.5	10-12
these patterns vary acros	: Students study human social behavior from a group perspection ss time, among cultures and in social groups. Students examine on society, through research methods using scientific inquiry.	e society, group behavior and socia	
Spanish I, II, III, IV	Foreign Language - G	1	9-12
spond to and to imitate a appropriate learned voca and language skills cove possessive adjectives; ic	urses are designed to teach students to pronounce and discrim nuthentic patterns of intonation, rhythm, and pronunciation. Stud abulary, word order, and grammatical forms, and to read silently red in Spanish include the following: usage of singular and plus lentifying and using the active voice in the indicative mood; ide , and the subjunctive mood; identifying and using subject prono	dents learn to give simple oral and v y and aloud with comprehension. The ral nouns and interrogative, definite ntifying and using the imperative, the	written information by using he major linguistic principles , indefinite, demonstrative an he future tense, all forms of th

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.

 Speech
 ELECTIVE
 1
 10-12

 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 focus 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-examination; and researching a topic thoroughly.

Spreadsheet Software Applications Computer/Career/PTS 0.5 9-12 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). **EXCEL** 

Street LawSocial Studies Elective - G0.59-12Major Concepts/Content: The street law course is an elective one-semester or yearlong course designed to provide students with knowledge about law<br/>that is of practical use in their everyday lives. Students will learn how every purchase, lease, contract, marriage, divorce, crime, or traffic violation plac-<br/>es 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,<br/>torts, consumer law, family law, housing, and individual rights and responsibilities. Students will study some of the current issues and controversies re-<br/>lating to the law and legal system. Students will learn the different methods of solving legal problems, including negotiation, mediation, and the trial pro-<br/>cess. An effort will be made to make the course relevant to students in DoDEA schools by including special lessons that compare American and the<br/>host nation's law and instruct students in the basics of the Code of Military Justice.

 Studio Art
 Fine Arts - G
 Prereq
 Fundamentals
 9-12

 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.



Course Title	Curricular Area	Credit	Grade
US Government	Government - G	0.5	12
knowledge, skills, and government that they s participation, and state	nt: The United States government course is a required attitudes related to the nation's government and its his studied in eighth and eleventh grade. Major emphasis i and local government. Some attention is given to eco ent is encouraged as a part of the program.	storical development. The students review th is on the structure of the federal government	e purpose and function of t, political responsibility and
US History	US History - G	1	11-12
on our nation's history eighth grade U.S. histo expand the student's k	nt: The United States history course at the eleventh gr from Reconstruction to the present. Both basic and ad ory course that concentrated on the pre-Columbian per nowledge of pre-civil War United States. The remainin with the host nation during these periods are explored	lvanced social studies skills receive emphas iod to reconstruction. The first quarter is use g quarters concentrate on post-Reconstructi	is. This course builds on the dot review, reinforce, and
VB Program I-DL	Computer/PTS - G Prereq	0.5	9-12
	nt: Programming in Visual BASIC I is a one-semester obter programs to solve complex problems.	course that will use the Visual BASIC Langu	age. The emphasis of this
VB Program II-DL	Computer/PTS - G Prereq	0.5	9-12
	nt: Programming in Visual BASIC II is a one-semester e computer programs to solve complex problems.	course designed to be a continuation of Vision	ual BASIC I. The emphasis
Video Comm I	Career/Computer/PTS - G	1	9-12
and equipment related	nt: The Video Communications I course for students in to video production. Through a hands-on, project orien editing, lighting, storyboarding, audio and computer gr	nted approach, students will apply knowledg	e on filming, composition,
Video Comm II	Career/Computer/PTS - G	1	9-12
will use the project-orie	nt: The Video Communication II course expands on the ented approach to refine their video production techniq deo switching, lighting, scriptwriting, computer graphics	ues while exploring concepts related to, but	not limited to, studio produ
Video Comm III	Career/Computer/PTS - G	1	9-12
first two courses. Stude sistent with post secon	nt: The Video Communications Seminar course will ex ents will continue to refine their video production skills dary programs or entry level in the career field. Studer video communication concepts. (Aviano News)	while completing video communication proje	ects at a quality level con-

Course Title	Curricular Area	Credit	Grade
teach students the conc evaluate a variety of exi	Career/Computer/PTS - G at: In Web Design, students will design, implement and n cepts, skills and processes involved in website developm isting website for content, design and functionality. Stude ed on a single theme or project. Students will use online	ent and management. Major Instructional ents will work collaboratively to design, cor	Activities: Students will nstruct and maintain an
World History	Social Studies Elective - G	1	9-12
ies by studying the histo grade six. After an over disciplinary approach, w	It: The world history course is designed to build on the contract development of these cultures. The course continu- view of the Early Ages, the course emphasizes the period vorld history is a balanced program, not just a history of ' st nation's history and culture are used for comparison.	es the chronological study of ancient work d from the Middle Ages to the contempora	d civilizations begun in ary world. Using the multi-
	Apps Career/Computer/PTS - G It: Word Processing Software Applications provides stud licrosoft Word Certification Course.	0.5 ents with the opportunity to develop profes	9-12 ssional level skills in word
Yearbook Prod	ELECTIVE	1	9-12
yearbook production, in	t: The yearbook production course is a practical course cluding photography, copy writing, page layout, and boo nced with the need to present the events, activities, and	k and advertisement sales are included. T	he concept of accurate

# Career Technical Endorsement Programs

### STEM (Science, Technology, Engineering and Mathematics) Career 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
- Administration and Information Support

#### Information Technology

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

#### Manufacturing

Manufacturing Production Process Development

#### Science, Technology, Engineering & Math

Engineering & Technology

#### **Government and Public Administration**

National Security (JROTC)

Italics denotes that class is not offered at AHS

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

Required Courses	Potential Credit	Required Courses	Potential Credit
Applied Architectural Design/CAD	1	Speech or Journalism I	1
Architectural Drawing	1	Video Communications I	1
Recommended Courses		Recommended Courses	
Principles of Engineering	.5	Video Communications II	1
Engineering Design/Development	1	Video Communications III	1
Computer Animation	1	Drama—Theater	1
Math Analysis	1	Journalism I	1
Physics	1	Speech	1
Career Practicum (Pathway related)	1	Word Processing Software Applications	.5
Career racticant (ratiway related)	I	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
Digital Media	1
Career Practicum (Pathway Related)	1
Tech Leadership Community	1

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

## Career Practicum (Pathway Related) 1 *Cluster: Business, Management & Administration Pathway: Business Financial Management & Accounting*

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

#### Cluster: Business, Management & Administration Pathway: Management

Required Courses	Potential Credit
Mgmt International Business	1
Marketing and Entrepreneurship	.5
Recommended Courses Accounting I Database Software Applications Spreadsheet Software Applications Business Law Digital Publishing Career Practicum (Pathway Related) Marketing & Entrepreneurship (Continuation)	1 1 .5-1 1 1 1 .5

#### **Cluster: Manufacturing**

#### Pathway: Manufacturing Production Process Development

Required Courses	Potential Credit
Engineering Design and Technology I	1
Recommended Courses	
Engineering Design and Technology II	.5-1
Engineering Drawing/CAD	1
Engineering Design/Development	1
Principles of Engineering	.5
Computer Animation	1
Math Analysis	1
Physics	1
Digital Electronics I	.5
Digital Electronic II	.5
Career Practicum (Pathway related)	1

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

Required Courses	Potential Credit
Word Processing Software Applications	.5
Spreadsheet Software Applications	.5
Presentations Software Applications	.5-1
Decommended Courses	
Recommended Courses	
Database Software Applications	1
Accounting I	1
Mgmt International Business	1
Web Design	.5-1
Digital Publishing	1
Digital Imaging	1
Spreadsheet Software Applications	.5-1
Career Practicum (Pathway Related)	1

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

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

#### Cluster: Information Technology Pathway: Information Support and Services

Required Courses	Potential Credit
Computer Services & Support	1
Java I / Distance Learnin <u>g (DL) or</u>	
Visual BASIC Programming I - Distance Learnir	ng (DL) <u>or</u> _
Digital Electronics I	.5
Recommended Courses	
Principles of Engineering	.5
Digital Electronics I or II	.5-1
Visual BASIC Programming I & II DL	.5
Java Programming I & II DL	.5
Word Processing Software Applications	.5
Presentations Software Applications	.5
Spreadsheet Software Applications	1
Web Design	.5
AP Computer Science A or AB DL	.5-1
Home Networking	1
Database Software Applications	1
Career Practicum (Pathway Related)	1
Gaming Technology I & II	.5-1

### Cluster: Information Technology

#### Pathway: Interactive Media

Required Courses	Potential Credit
Digital Media	.5-1
Web Design	.5-1
Digital Publishing	.5-1

Recommended Courses	
Computer Animation	1
Journalism I	1
Video Communications III	1
Web Design	.5
Yearbook Production	1
Fundamentals of Art	1
Digital Imaging	1
Career Practicum (Pathway Related)	1
Gaming Technology I & II	.5-1

#### Cluster: Information Technology Pathway: Programming/Software Engineering

Required Courses One full year of one of the following programming langua mester of another language:	Potential Credit ges and one se-
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>	1.5 1.5 1.5
One full year of one of the following programming languages and one se- mester of another language:	
Java I or II /DL Visual BASIC Programming I or II /DL Gaming Technology I & II	.5 .5 1
Recommended Courses Visual BASIC Programming I & II DL Java Programming I & II DL AP Computer Science A or AB DL Web Design Algebra II Career Practicum (Pathway Related)	.5-1 .5-1 1 .5 1 1
Cluster: Information Technology Pathway: Natwork Systems	

#### Pathway Notwork Systems

Patnway: Network Systems	
Required Courses	Potential Credit
Home Networking	1
Business Networking	1
Recommended Courses	
Computer Services & Support	1
Digital Electronics I or II	.5-1
Visual BASIC Programming I & II DL	.5
Java Programming I & II DL	.5
AP Computer Science A or AB DL	1
Algebra II	1
Career Practicum (Pathway Related)	1

#### Cluster: Government and Public Administration Pathway: National Security (JROTC)

Required Courses	Potential Credit
JROTC I	1
JROTC II	1
JROTC III	1
Recommended Courses	
JROTC IV	1
Psychology	.5
Sociology	.5
Speech	1
Street Law	.5
Career Practicum (Pathway Related)	1