Kadena High School
Okinawa, Japan

KADENA PANTHERS

KADENA HIGH SCHOOL
HOME OF THE PANTHERS

Course Descriptions
2012-2013

Table of Contents

GRADUATION REQUIREMENTS

4-YEAR PLAN BLANK TEMPLATE

CTE CLUSTERS AND PATHWAYS

LANGUAGE ARTS (ENGLISH) 3

MATHEMATICS 8

SCIENCE 11

SOCIAL STUDIES 15

PHYSICAL EDUCATION AND HEALTH 19

FOREIGN LANGUAGES 20

FINE ARTS 22

CAREER AND TECHNICAL EDUCATION 28

ELECTIVES 39

DISTANCE LEARNING PROGRAM 42

GRADUATION REQUIREMENTS

Courses	Credits
ENGLISH LANGUAGE ARTS 9, 10, 11, and 12 (Two years of ESL may be substituted for 2 years of English Language Arts)	4
SOCIAL STUDIES (1 credit of US History, 1 credit in either World History 9 or World History 10 and ½ credit in US Government is required)	3
MATHEMATICS (Algebra I and Geometry are required).	3
SCIENCE (Biology and Chemistry or Physics are required.)	3
HEALTH EDUCATION	½
PHYSICAL EDUCATION	1 ½
FINE ARTS (Courses used to meet this credit must relate to visual arts, music, theater, drama, dance, and/or humanities).	1
FOREIGN LANGUAGE (A total of 2 credits in the same foreign language required.)	2
CAREER AND TECHNICAL EDUCATION (½ credit must be in a computer course).	2
ELECTIVE COURSES (Once you have taken your required CTE, Fine Arts, etc. any courses that you take in these areas will become Elective credits)	6
TOTAL	**26**

KADENA HIGH SCHOOL 4-YEAR EDUCATIONAL PLAN

Student Name: _____ **Career Major:** _____

HS Credits GRADES 7 – 8:	

GRADE 9		GRADE 10		GRADE 11		GRADE 12	
1st Semester	**2nd Semester**	**1st Semester**	**2nd Semester**	**1st Semester**	**2nd Semester**	**1st Semester**	**2nd Semester**

GRADUATION REQUIREMENTS: (Each box equals ½ a credit. **26 credits** AND **2.0 GPA REQUIRED** for graduation.)

English (4 credits)			**Mathematics** (3 credits)		**Science** (3 credits)		**Social Studies** (3 credits)			**Foreign Lang.** (2 credits)		**Health** (1/2 credit)	**PE** (1.5 credits)		**CTE** (2 credits)		**Fine Arts** (1 credit)	
English 9	☐	☐	☐	☐	☐	☐	W.R./W.H.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
English 10	☐	☐	☐	☐	☐	☐	US History	☐	☐	☐	☐		☐		☐	☐		
English 11	☐	☐	☐	☐	☐	☐	US Govt.	☐										
English 12	☐	☐					SS Elective	☐										

Electives (6 credits)			
☐	☐	☐	☐
☐	☐	☐	☐
☐	☐	☐	☐

Comments:

Kadena High School CTE Clusters and Pathways

Cluster	Pathway	Required Classes	Recommended Courses
Arts, A/V Tech & Communications	**Audio & Video Tech & Film**	Video Comm I Video Comm II	Video Comm III Career Practicum
Arts, A/V Tech & Communications	**Journalism & Broadcasting**	Journalism or Speech Video Comm I	Video Comm II Video Comm III Word Process Software App (.5) Career Practicum Speech or Journalism
Business, Mgmt and Administration	**Administration and Information Support**	Word Proc Sw Apps (.5) Presentation Sw Apps (.5) Spreadsheet Sw Apps (.5)	Spreadsheet Sw Apps (.5) Management Int'l Business Accounting I Database Sw Apps Imaging Sw Apps Website Development (.5) Career Practicum
Business, Mgmt and Administration	**Business Financial Mgmt and Accounting**	Accounting I Accounting II	Management Int'l Business Word Processing Sw Apps (.5) Presentation Sw Apps (.5) Spreadsheet Sw Apps Business Law Database Sw Apps Career Practicum
Business, Mgmt and Administration	**Management**	Mgmt Int'l Business Mktg & Entrepreneurship (.5)	Accounting I Spreadsheet Sw Apps Database Sw Apps Business Law Career Practicum
Gov't & Public Administration	**National Security**	Air Force JROTC I Air Force JROTC II	JROTC III JROTC IV Psychology (.5) Street Law (.5) Speech Career Practicum
Hospitality and Tourism	**Restaurant and Food and Beverage Services**	Culinary Arts I (2) Culinary Arts II (2)	(None required)
Information Technology	**Information Support & Services**	Computer Service Support Java I or Visual Basics I (.5)	Java II or Visual Basics II (.5) Word Process Software App (.5) Presentation Software App (.5) Spreadsheet Software App Database Sw Apps Cisco I

			Website Development (.5) Career Practicum
Information Technology	**Interactive Media**	Interactive Multimedia Web Site Dev/Mgmt (.5) Publication Sw Apps	Computer Animation Journalism I Video Comm I Marketing/Entrepreneurship (1) Web Site Dev/Mgmt (.5) Yearbook Production Fundamentals of Art Imaging Sw Apps Career Practicum
Information Technology	**Programming & Software Engineering**	Java I & II Visual Basic I & II	Website Development (.5) Algebra II Career Practicum
Information Technology	**Network Systems**	Cisco I Cisco II	Computer Service and Support Java I Java II Visual Basic I Visual Basic II Algebra II Career Practicum
Manufacturing	**Manufacturing Production Process Development**	Engineering Design & Technology I	Engineering Drawing/CAD Computer Animation Math Analysis Physics Career Practicum
Science, Technology, Engineering & Mathematics	**Engineering & Technology**	Engineering Drawing/CAD	Engineering Design & Technology I (.5 – 1) Cisco I & II (.5 – 2) Java I & II or Visual Basic I & II Computer Animation Math Analysis Physics Career Practicum

KADENA HIGH SCHOOL COURSE OFFERINGS
SCHOOL YEAR *2011-2012*

THE FOLLOWING IS A LISTING OF HIGH SCHOOL COURSES (GRADES 9-12) BY DEPARTMENT WITH INDICATION OF COURSE LENGTH AND PREREQUISITES.

LANGUAGE ARTS (ENGLISH)

COURSE CODE	COURSE TITLE	LENGTH	GRADE LEVEL	PREPARATION
LAE301	LANGUAGE ARTS 9	Y	9	English 8
LAE371	HONORS LIT-WRLD HIST 9	Y	9	English 8*
LAE401	LANGUAGE ARTS 10	Y	10	English 9
LAE471	HONORS LIT-WRLD HIST10	Y	10	English 9*
LAE501	LANGUAGE ARTS11	Y	11	English 10
LAC614	AP ENGLISH LANG+	Y	11-12	English 10*
LAE601	LANGUAGE ARTS 12	Y	12	English 11
LAL613	AP ENGLISH LIT+	Y	12	English 11*
LAA301	ESL-BEGIN COMMUN	SEM/Y	9	In ESL Program
LAA401	ESL-DEVELOP COMM	SEM/Y	10	In ESL Program
LAA501	ESL-EXPAND COMM	SEM/Y	11	In ESL Program
LAA601	ESL-BRIDGING COMM	SEM/Y	12	In ESL Program
LAA302	ENTRANCE INTO ENG.	Y	9-12	In ESL Program

*Teacher Recommendation, test scores and grades will be used in selection process.
+Advanced Placement Courses

LANGUAGE ARTS COURSE DESCRIPTIONS

LAE301 **LANGUAGE ARTS 9**

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 under-standing how the characters' actions and emotions reflect the student's own actions and emotions; under-standing 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.

LAE371 **HONORS LITERATURE-WORLD HISTORY 9**
This is an integrated course for students interested in taking 9th grade Honors Social Studies and English. The course uses the chronological study of world history from

Ancient Civilization to 1500 A.D. and covers the themes of culture, science/technology and society, geography, and time/continuity and change. The content integrates readings and writings that focus on exploring, interpreting, and analyzing literature and other readings that extend and support the world history discussions and research. The themes of geography provide the focus for preparing students to understand how humans adapt to the environment. The course is a demanding study of world history and literature, requiring students to understand, analyze, and interpret the connections between major historical events and the writings of the time. Critical thinking, philosophical discussion, concept attainment, vocabulary development, language usage, and research will be stressed. The development of discussion and presentation skills will focus on analysis, interpretation, and evaluation.

LAE401 **LANGUAGE ARTS 10**

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.

LAE471 **HONORS LITERATURE-WORLD HISTORY 10**

This is an integrated course for students interested in taking 10th grade Honors Social Studies and English. The course uses the chronological study of world history from 1500 to the present and covers the themes of culture, science and technology, economics, and government. The content integrates readings and writings that focus on exploring, interpreting, and analyzing literature and other readings that extend and support the world history discussions and research. The course is a demanding study of world history and literature, requiring students to understand, analyze, and interpret the connections between major historical events and the writings of the time. Critical thinking, philosophical discussion, concept attainment, vocabulary development, language usage, and research will be stressed. The development of discussion and presentation skills will focus on analysis, interpretation, and evaluation.

LAE501 **LANGUAGE ARTS 11**

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.

LAC614 **ADVANCED PLACEMENT ENGLISH, LANGUAGE and COMPOSITION+**

AP English Language and Composition is designed for students willing to accept an intellectual challenge and is intended to engage higher order analytic and synthetic thinking and writing skills. Wide readings of recognized importance and styles from different time periods will provide students the opportunity to explore and appreciate trends in linguistic styles. In addition to reading primarily nonfiction materials, students may read poetry and fiction to determine the impact of a writer's "linguistic and rhetorical choices." This course will prepare students for taking the AP exam administered in May of each year.

Though the system has an open enrollment policy, students should understand this is a college class taught in a high school classroom and is designed to culminate in the AP Language and Composition Exam. Those who are enrolled in AP Language and Composition may expect a more intense workload; the breadth, pace, and depth of material covered exceeds the standard English class. This course is the equivalent of an introductory college level Language class with college level requirements. It is intended to be both rigorous and challenging. Students are expected to take the AP exam at the end of this course.

LAE601 **LANGUAGE ARTS 12**

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.

LAL613 **ADVANCED PLACEMENT ENGLISH, LITERATURE AND COMPOSITION+**

AP English Literature and Composition is designed for students willing to accept an intellectual challenge and is intended to engage creative and analytical thinking skills. Students will experience, interpret, and evaluate challenging imaginative literature of recognized importance.

Reading and writing are approached as reciprocal processes in this course, and students will have multiple opportunities to recognize and implement good writing and appreciate exemplary literature. What a student reads lends itself to what a student writes; what a students writes enhances and extends their understanding of literature and the writer's craft. Students will write to understand, explain, and evaluate literature in a clear and cogent style. Although critical analysis of the literature is the primary focus of this course, students will have the opportunity to write creatively. Timed responses mirroring the demands of the AP exam will be a frequent form of evaluation.

Though the system has an open enrollment policy, students should understand this is a college class taught in a high school classroom and is designed to culminate in the AP Literature and Composition Exam. Those who are enrolled in AP Literature and Composition may expect a more intense workload; the breadth, pace, and depth of material covered exceeds the standard English class. This course is the equivalent of an introductory college level literature class with college level requirements. It is intended to be both rigorous and challenging. Students are expected to take the AP exam at the end of this course.

***ADVANCED PLACEMENT COURSES carry "weighted" grades. In calculation of grade point average, they receive one extra point. The AP exams (given in May) MUST be taken in order to receive the weighted grade. Please meet with your Counselor before selecting Advanced Placement courses.**

The following classes are designed to prepare students for competency in listening, speaking, reading, and writing English. These classes are for students whose first language is <u>not English</u>. Two years of ESL can be substituted for regular English Language Arts to meet the Graduation Requirements.

LAA301 **ESL – BEGINNING COMMUNICATION**

The English as a Second Language Beginning Communication course is designed to develop and increase English language proficiency and academic skills for students whose primary language is not English and who are at a <u>level 1 English proficiency</u>. This course actively involves students in developing the skills of understanding, listening, speaking, viewing, reading, and writing to support the student's mastery of DoDEA's general education content standards. Emphasis is placed on the acquisition of Basic Interpersonal Communication Skills (BICS) related to meeting everyday needs

and participating in the American school culture, and on the cognitive academic language needed for success in the general education classroom.

LAA401 **ESL – DEVELOPING COMMUNICATION**

The English as a Second Language Developing Communication course is designed to increase English language proficiency and to enhance academic skills for students whose primary language is not English and who are at a level 2 English proficiency. All areas of communication skills, i.e. listening, speaking, viewing, reading and writing, are strengthened through the integrated learning of language and academic content.

LAA501 **ESL – EXPANDING COMMUNICATION**

The English as a Second Language Expanding Communication course is designed to increase English language proficiency and to enhance academic skills for students whose primary language is not English and who are at a level 3 English proficiency. All areas of communication skills, i.e. listening, speaking, viewing, reading and writing, are strengthened through the integrated learning of language and academic content.

LAA601 **ESL – BRIDGING COMMUNICATION**

The English as a Second Language Bridging Communication course is designed for the advanced English language learner who is at a level 4 English language proficiency. This course focuses on expanding the student's range of vocabulary, refining grammatical structures, sharpening writing skills, and developing critical reading and thinking skills. All areas of communication skills are strengthened through the integrated learning of language and academic content.

LAA302 **ENTRANCE INTO ENGLISH**

The Entrance into English course is designed to prepare students for the different activities that they are expected to perform in English classes (classroom survival skills), to identify the basic terms that students should know prior to entering the mainstreamed English class, to identify in a check list the specific experiences and developed skills that ESL students should have prior to entering the mainstreamed English class, and to provide the receiving English teachers with a clear profile of the developed skills and experiences of ESL students who are entering the English class.

MATHEMATICS

COURSE	COURSE	LENGTH	GRADE	PREPARATION

CODE	TITLE		LEVEL	
MAA301	ALGEBRA I	Y	9-12	None
MAG401	GEOMETRY	Y	9-12	Algebra I
MAZ501	DISCRETE MATH	Y	10-12	Geometry
MAZ505	ALGEBRAIC MODELING	Y	9-12	Algebra I
MAA401	ALGEBRA II	Y	10-12	Geometry
MAD501	MATH ANALYSIS/PRE-CAL	Y	11-12	Algebra II
MAC601	CALCULUS	Y	11-12	Math Analysis
MAC612	AP CALCULUS AB+	Y	12	Math Analysis
MAZ611	AP STATISTICS+	Y	12	Algebra II

MATHEMATICS COURSE DESCRIPTIONS

MAA301 **ALGEBRA I**

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.

MAG401 **GEOMETRY**

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.

MAZ501 **DISCRETE MATH**

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?

MAZ505 **ALGEBRAIC MODELING**

This course strives to show the student connections between math and their daily lives. Students will make application of topics and concepts such as Direct and Inverse Variation, Quadratic Functions, Power Functions, and Exponential Functions as models from Algebra 1. Algebraic modeling concepts and solutions are presented in non-threatening, easy-to-understand language with numerous step-by-step examples to illustrate ideas. Whether they are going on to study early childhood education, graphic arts, automotive technologies, criminal justice, or something else, students will discover that the practical applications of mathematical modeling will continue to be useful well after they have finished this course.

MAA401 **ALGEBRA II**

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.

MAD501 **MATH ANALYSIS/PRE-CALCULUS**

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.

MAC601 **CALCULUS**

Calculus concepts such as limits, differentiation, and integration are taught using technology in order to answer real problems that expand their understanding of function, space, symmetry. The course combines many of the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus at the college level and strengthens their conceptual understanding of problems and mathematical reasoning in solving problems. Special attention will be given to the integration of trigonometry, geometry, and algebra into these calculus problems. The course emphasizes a multi- representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, and analytically, and verbally. The standards develop the unifying themes of derivatives, integrals, limits, approximation, and applications and modeling. Graphing calculators will be used

throughout the course to aid in the solution of the problem. The difference between a college calculus course and a high school calculus course is the depth of coverage.

MAC612 **ADVANCED PLACEMENT CALCULUS AB+**

AP Calculus AB provides an understanding of the fundamental concepts and methods of differential and integral calculus with an emphasis on their application, and the use of multiple representations incorporating graphic, numeric, analytic, algebraic, and verbal and written responses. Technology is an integral part of the course and includes the use of graphing calculators, computers, and data analysis software. The College Board requires the use of graphing calculators for this course. Though our system has an open enrollment policy, students should understand that this course is designed to be a fourth-year mathematics course, and the equivalent of a year-long, college-level course in single variable calculus. The course requires a solid foundation of advanced topics in algebra, geometry, trigonometry, analytic geometry, and elementary functions. Teaching strategies include collaborative small-group work, pairs engaged in data analysis, whole-group presentations, peer-to-peer discussions, and an integration of technology when appropriate. All aspects of progress in the course are measured using multiple methods such as authentic, performance, observational, and assessment for learning (formative); group and individual projects, student presentations, and assessment of learning (summative). Students are expected to take the AP Calculus AB Exam at the end of this course.

MAZ611 **ADVANCED PLACEMENT STATISTICS+**

AP Statistics provides a systematic development of the concepts, principles, and tools of statistics with an emphasis on inquiry and critical-thinking skills associated with the collection, representation, analysis, and drawing conclusions from authentic data. Technology is a central component of the course and includes the use of graphing calculators, computers, and data analysis software. The College Board requires the use of graphing calculators for this course. Though our system has an open enrollment policy, students should understand that this course is designed to be a fourth-year mathematics course, and the equivalent of an introductory, one-semester, non-calculus-based, college-level statistics course. The course requires a working knowledge of Algebra II, and quantitative reasoning. Teaching strategies include collaborative small-group work, pairs engaged in data analysis, whole-group presentations, peer-to-peer discussions, and an integration of technology when appropriate. All aspects of progress in the course are measured using multiple methods such as authentic, performance, observational, and assessment for learning (formative); group and individual projects, student presentations, and assessment of learning (summative). Students are expected to take the AP Statistics Exam at the end of this course.

***ADVANCED PLACEMENT COURSES carry "weighted" grades. In calculation of grade point average, they receive one extra point. The AP exams (given in May) MUST be taken in order to receive the weighted grade. Please meet with your Counselor before selecting Advanced Placement courses.**

SCIENCE

COURSE CODE	COURSE TITLE	LENGTH	GRADE LEVEL	PREPARATION
SCZ302	EARTH SPACE SCI	Y	9-12	None
SCZ401	ENVIRONMENT SCI	Y	9-12	None
SCB401	BIOLOGY	Y	9-12	None
SCC502	CHEM APPS COMM	Y	9-12	None
SCC501	CHEMISTRY	Y	10-12	Algebra I
SCP302	PHYS APPS COMM	Y	9-12	None
SCP501	PHYSICS	Y	10-12	Algebra I
SCZ602	MARINE BIOLOGY	Y	10-12	Biology
SCX401	HUMAN ANAT & PHYS	Y	10-12	Biology
SCZ611	AP ENVIR. SCIENCE+	Y	11-12	Algebra I
SCP612	AP PHYSICS B+	Y	11-12	Physics
SCB612	AP BIOLOGY+	Y	11-12	Biology
SCC612	AP CHEMISTRY+	Y	11-12	Chemistry

SCIENCE COURSE DESCRIPTIONS

SCZ302 **EARTH AND SPACE SCIENCE**

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 includes geology, astronomy, meteorology, oceanography, and ecology.

SCZ401 **ENVIRONMENTAL SCIENCE**

Environmental Science is designed to be an elective course for students with a special interest and high motivation for an in-depth study of environmental science. 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, but are not limited to, the laws of matter and energy, ecosystem analysis, population dynamics, renewable and nonrenewable resources, human impact on the environment, and the relationships among economics, politics, ethics, and the environment.

SCB401 **BIOLOGY**

This is a college preparatory class that emphasizes biological organization and life processes of living organisms. High school biology incorporates lectures with a practical laboratory program. Students learn the value of making accurate observations and data recording to arrive at valid conclusions.

SCC502 **CHEMISTRY APPLICATIONS IN THE COMMUNITY**

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 with societal issues.

SCC501 **CHEMISTRY**

Chemistry is the study of the structure of matter and how matter interacts. We will cover such topics as the quantum model of the atom and the behavior of electrons, radioactive decay and nuclear chemistry. Students will learn how chemicals are named and how to write, balance, and identify chemical reactions. The shapes and polarity of molecules and how this influences physical properties of molecules will also be covered. The second semester will focus on stoichiometry and the quantitative analysis of chemical reactions, the gas laws, and the thermodynamics of chemical reactions. Chemistry requires successful completion of Algebra I (MAA304). (Concurrent enrollment or completion of Algebra II is highly recommended.)

SCP302 **PHYSICS APPLICATIONS IN THE COMMUNITY**

This course provides a conceptually-based experience in the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Students will be required to use basic algebra, the metric system, perform experiments, analyze and interpret quantitative data, and use higher order thinking skills to apply principles learned to everyday phenomena. Students who feel they may need a background in physics for the future, or have an overall interest in science should take this course. This course is a recommended prerequisite for Applied Physics, which is

more mathematically structured at the Algebra II and Trigonometry level. Upon completion, students should be able to describe examples and applications of the principles studied.

SCP501 **PHYSICS**

Physics is a college preparatory course that provides an understanding of the physical laws fundamental to all science. Utilizing a problem solving approach, topics such as mechanics, wave theory, heat, sound, light, magnetism, electricity, atomic structure, nuclear reactions, and high-energy physics will be explored. Concepts presented will be reinforced through lectures, student activities and laboratory experiments. Special attention is given to the mathematical treatment of data which is minimally at the Algebra II level of competency.

SCZ602 **MARINE BIOLOGY**

Marine Biology is designed to be an elective, introductory course to the identification and classification of organisms most common to the oceans around Okinawa. 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. Biology is the suggested prerequisite for this course.

SCX401 **HUMAN ANATOMY AND PHYSIOLOGY**

This course is designed for students with a special interest and high motivation for an in-depth study of the normal human structures and functions. Laboratory investigations are emphasized. Topics studied include the muscular, nervous, digestive, respiratory, circulatory, excretory, endocrine, and reproductive systems.

SCZ611 **ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE+**

The AP Environmental Science course is designed to be the equivalent of an introductory college course in environmental science. Environmental science is an interdisciplinary course that embraces a wide variety of topics from several areas of study. There are several unifying themes that exemplify and provide the foundation for Environmental Science. These themes include science as a process, energy conversions underlie all ecological processes, the Earth itself is one interconnected system, humans alter natural systems, environmental problems have cultural and social context and human survival depends upon developing practices that will achieve attainable systems.

SCP612 **ADVANCED PLACEMENT PHYSICS B+**

The AP Physics B course includes topics in both classical and modern physics. The course seeks to be a representative of topics covered in similar college courses, as determined by periodic surveys. The course covers five general areas: Newtonian mechanics, thermal physics, electricity and magnetism, waves and optics, and nuclear physics. Proficiency in Algebra II and basic Trigonometry is required as well as a dedicated work ethic that will allow the successful completion of a college level Physics course. Understanding of the basic principles involved and the ability to apply these principles in the solution of problems are the major goals of the course. This AP course is designed to follow the successful completion of course work in high school Physics.

SCB612 **ADVANCED PLACEMENT BIOLOGY+**

This course is designed as an equivalent of a college introductory course. The college course in biology differs significantly from the usual first high school course in biology with respect to the textbook and the range and depth of topics covered, the kind of laboratory work done, and the time and effort required of the students. This AP course is designed to be studied after the successful completion of course work in high school biology and chemistry. The course is equivalent to the first two college level introductory courses.

SCC612 **ADVANCED PLACEMENT CHEMISTRY+**

This course is designed as an equivalent of a college introductory course. The college course in general chemistry differs qualitatively from the usual first high school chemistry course with respect to the textbook, topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by students. This AP course is designed to be studied after the successful completion of course work in high school chemistry.

ALL SCIENCE CLASSES ARE FULL YEAR IN LENGTH.

***ADVANCED PLACEMENT COURSES carry "weighted" grades. In calculation of grade point average, they receive one extra point. The AP exams (given in May) MUST be taken in order to receive the weighted grade. Please meet with your Counselor before selecting Advanced Placement courses.**

SOCIAL STUDIES

COURSE CODE	COURSE TITLE	LENGTH	GRADE LEVEL	PREPARATION
SSW305	WORLD HISTORY 9	Y	9-12	None
SSW371	HONORS WRLD HIST-LIT 9	Y	9	Hon. Eng. 9*
SSW401	WORLD HISTORY	Y	9-12	None
SSW471	HONORS WRLD HIST-LIT10	Y	10	Hon. Eng.10*
SSU501	U.S. HISTORY	Y	11-12	None
SSU611	AP U.S. HISTORY+	Y	11-12	None
SSP501	PSYCHOLOGY	SEM	11-12	None
SSZ303	STREET LAW	SEM	11-12	None
SSN401	ECONOMICS	SEM	10-12	None
SSZ403	MODEL UN	SEM	10-12	None
SSZ501	CONTEMP ISSUES	SEM	10-12	None
SSG601	U.S. GOVERNMENT	SEM	12	None
SSG612	AP GOVT & POL+	Y	12	None
SSG613	AP COMP GOV & POL+	Y	12	None
SSW301	ASIAN CULTURE	SEM	9-12	None

*Concurrent enrollment in Honors Literature 9 and Honors World History required
*Concurrent enrollment in Honors Literature 10 and Honors World History required.

SOCIAL STUDIES COURSE DESCRIPTIONS

SSW305 **WORLD HISTORY 9 CIVILIZATIONS**

The students will examine the social, cultural and technological changes that occurred in Europe, Africa, and Asia in the beginnings of human society through 1500 C.E. After reviewing the ancient world and the ways in which archaeologists and historians uncover the past, students study the history and geography of great civilizations as well as the exchange of ideas, beliefs, technologies, and commodities. They learn about the political, economic, social, and cultural development of Europe which influenced the rise of Western Civilization 500 to 1500 and the origins and accomplishments of the Renaissance period.

SSW371 **HONORS WORLD HISTORY – LITERATURE 9**

This is an integrated course for students interested in taking 9th grade Honors Social Studies and English. The course uses the chronological study of world history from ancient civilizations to 1500 and covers the themes of geography, culture, science and technology, economics, and government. The content integrates readings and writings that focus on exploring, interpreting, and analyzing literature and other readings that extend and support the world history discussions and research. The course is a demanding study of world history and literature, requiring students to understand, analyze, and interpret the connections between major historical events and the writings

of the time. Critical thinking, philosophical discussion, concept attainment, vocabulary development, language usage, and research will be stressed. The development of discussion and presentation skills will focus on analysis, interpretation, and evaluation. This course must be taken in conjunction with Honors Literature-World History 9.

SSW401 **WORLD HISTORY – THE MODERN WORLD**

This full-year course focuses on the study of world history from the Renaissance to contemporary times. It is a balanced program that includes not just Western Europe, but also Eastern Europe, Asia, Africa, North and South America. It is a recommended class for the college bound sophomore. This is an academically challenging course and a good foundation in world cultures is essential.

SSW471 **HONORS WORLD HISTORY – LITERATURE 10**

This is an integrated course for students interested in taking 10th grade Honors Social Studies and English. The course uses the chronological study of world history from 1500 to the present and covers the themes of culture, science and technology, economics, and government. The content integrates readings and writings that focus on exploring, interpreting, and analyzing literature and other readings that extend and support the world history discussions and research. The course is a demanding study of world history and literature, requiring students to understand, analyze, and interpret the connections between major historical events and the writings of the time. Critical thinking, philosophical discussion, concept attainment, vocabulary development, language usage, and research will be stressed. The development of discussion and presentation skills will focus on analysis, interpretation, and evaluation. This is a full-year course.

SSU501 **U.S. HISTORY**

U.S. History is a required course for graduation. This course is a study of the history of the United States with an emphasis on the period from the Reconstruction to the present. This full-year course is restricted to *Juniors and Seniors*.

SSU611 **AP UNITED STATES HISTORY+**

This yearlong course follows the description and requirements set by the College Board for advanced placement classes. An in-depth study of United States history, the course requires an above average reading, writing and interpretive abilities. This course is restricted to *Juniors and Seniors*. Please note that seniors may enroll after completing regular US History.

SSP501 **PSYCHOLOGY**

This semester class in "applied" psychology will equip *Juniors and Seniors* with success principles, positive habits and knowledge to succeed in life. Included in this course are topics in the history of psychology, psychological methods, personality testing and development, the human brain, sensation and perception, motivation and emotion,

behavioral modification, principles of learning, information processing and memory, human development, and psychological disorders.

SSZ303 **STREET LAW**

This semester class will provide students with knowledge that will be of practical use in their everyday lives. Students will learn how every purchase, lease, contract, marriage, divorce, crime, and traffic violation places them face-to-face with the law. Topics will include an introduction to law and the legal system, criminal, family, housing and consumer law, as well as individual rights and responsibilities. Students will study current issues and controversies relating to law and the legal system. Students will learn 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 at Kadena High School by including special lessons that compare American and Japanese law as well as instruction in the basics of the Code of Military Justice.

SSN401 **ECONOMICS**

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.

SSZ403 **MODEL UNITED NATIONS**

This semester class will teach students about the major operations and functions of the United Nations. The major political, economic, and cultural problems facing the world will be studied. The Internet will be used extensively to do research and provide information for students to act out numerous classroom simulations of various United Nations bodies.

SSZ501 **CONTEMPORARY ISSUES**

The contemporary issues course examines contemporary, national and world problems and problem areas. Emphasis will be placed upon the role of the United States in these areas. In preparation, the historical shaping of United States foreign policy will be studied for context. Class work will emphasize activities that enable the student to analyze and propose solutions to the various problem areas covered by the course. Students – working individually and in groups – will be required to prepare and present oral and written reports on assigned topics. This is a one-semester course.

SSW302 **Asian Culture**

Course Title: Asian Culture

The Asian culture course is a one-semester course designed to study the historical and current developments that have influenced culture characteristics of China, Japan, and India. Students survey the historical development of the three major nations from pre-history to the present. In this context the students see how the historical method enables them to identify the major characteristics Asian society and how these characteristics will influence foreign affairs, economics, and demographic trends in the 21st century. The major areas of investigation include the dynastic cycle of China, the Japanese feudal system, European imperialism in India, and the Communist Revolution in China. Instructional activities will focus on lectures, complemented by class discussions. Students will view filmstrips and videos dealing with Asian studies. Slides of Japan, China, and India will also be employed. This course is for grades 9-12.

SSG601 **U.S. GOVERNMENT**

This course is a required, one semester, study of the government of the United States. An emphasis on the structure and function of the government provides the background for the study of individual political responsibility and participation. Required for all seniors.

SSG612 **AP AMERICAN GOVERNMENT AND POLITICS+**

This yearlong course is open to *Seniors* and follows the description and requirements set by the College Board for advanced placement classes. It is an in-depth study of the government of the United States, and the course requires an above average reading ability.

SSG613 **AP COMPARATIVE GOVERNMENT AND POLITICS+**

The AP course in Comparative Government and Politics introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. Careful comparison of political systems produces useful knowledge about the policies countries have effectively initiated to address problems, or, indeed, what they have done to make things worse. We can compare the effectiveness of policy approaches to poverty or overpopulation by examining how different countries solve similar problems.

***ADVANCED PLACEMENT COURSES carry "weighted" grades. In calculation of grade point average, they receive one extra point. The AP exams (given in May) MUST be taken in order to receive the weighted grade. Please meet with your Counselor before selecting Advanced Placement courses.**

PHYSICAL EDUCATION & HEALTH

COURSE CODE	COURSE NAME	LENGTH	GRADE LEVEL	PREPARATION
PEF301	PE -PERSONAL FITNESS	SEM	9-12	None
PEL301	PE - LIFETIME SPORTS	SEM	9-12	None
PEN301	PE-ACTIVITY NUTRITION	SEM	9-12	PEF301& PEL301
HLH301	HEALTH ED	SEM	9-12	None

PHYSICAL EDUCATION & HEALTH COURSE DESCRIPTIONS

PEF301 **PERSONAL FITNESS**

This course is designed to provide students with the knowledge needed to make decisions regarding personal fitness, exercise, lifestyle and nutrition. The students will develop and implement personal workouts for strength, flexibility, and cardiovascular fitness.

PEL301 **LIFETIME SPORTS**

This course is designed to expose students to a wide variety of athletic activities and to ensure each individual has the necessary skills and information to participate in physical activity throughout life.

PEN301 **PE-ACTIVITY NUTRITION**

This one-semester class is required for graduation. Students have to complete Personal Fitness and Lifetime sports before taking this class. This course teaches students how to create a personal fitness program that will meet their own needs. Students will be introduced to heart rate monitors and other physical activities. Students will identify ways to balance nutritional needs with physical activity energy expenditure.

HLH301 **HEALTH ED**

The purpose of this semester course is to provide students with a comprehensive coverage of contemporary health topics: mental/emotional health, family/social health,growth and development, substance use/abuse, food/nutrition, exercise/fitness, diseases/disorders, consumer/personal health and safety/first aid.

FOREIGN LANGUAGE

COURSE CODE	COURSE NAME	LENGTH	GRADE LEVEL	PREPARATION
FLF301	FRENCH I	Y	9-12	None
FLF401	FRENCH II	Y	9-12	French I
FLF501	FRENCH III	Y	9-12	French II
FLF601	FRENCH IV	Y	9-12	French III
FLJ301	JAPANESE I	Y	9-12	None
FLJ401	JAPANESE II	Y	9-12	Japanese I
FLJ501	JAPANESE III	Y	9-12	Japanese II
FLJ601	JAPANESE IV	Y	10-12	Japanese III
FLJ614	AP JAPANESE+	Y	11-12	Japanese IV
FLS301	SPANISH I	Y	9-12	None
FLS401	SPANISH II	Y	9-12	Spanish I
FLS501	SPANISH III	Y	9-12	Spanish II
FLS601	SPANISH IV	Y	10-12	Spanish III
FLS602	SPANISH V	Y	11-12	Spanish IV
FLS615	AP SPANISH LANG+	Y	11-12	Spanish III
FLC301	CHINESE I	Y	9-12	None
FLC401	CHINESE II	Y	9-12	Chinese I
FLC501	CHINESE III	Y	9-12	Chinese II
FLC601	CHINESE IV	Y	11-12	Chinese III

FOREIGN LANGUAGE COURSE DESCRIPTIONS

FIRST YEAR OF FOREIGN LANGUAGE

The beginning language courses offer an integrated study of grammar, vocabulary and culture of the target language. Emphasis is placed upon the basic skills such as pronunciation, simple sentences and essential words and phrases. While some of the cultural and grammatical concepts will be explained in English, every effort is made to speak in the target language; therefore, it is advised that students have reasonable proficiency in English.

SECOND YEAR OF FOREIGN LANGUAGE

The second year of the language program offers opportunities for further growth and mastery of the foreign language. Emphasis will be placed on expanding knowledge in grammar, vocabulary and culture of the target language. There will be increased

opportunities to practice using conversational skills as well as developing a basic writing style. There will be an effort to speak only in the target language.

THIRD YEAR OF FOREIGN LANGUAGE

The third year language programs offer opportunities for in-depth and advanced study in the foreign language. Emphasis will be placed on mastery of complex grammatical concepts, development of wider vocabulary and reading comprehension. The student will study basic works of literature along with more complex aspects of the target language and its people.

FOURTH THROUGH SIXTH LEVEL OF FOREIGN LANGUAGE

The fourth through sixth years of language study provide greater in-depth and advanced study of the foreign language. Review of grammatical concepts will be achieved through an increasing complexity of writing, reading, speaking, and listening activities. The student will be expected to converse with ease in the target language with emphasis being placed on developing the finer nuances of the language.

FLS615 **ADVANCED PLACEMENT SPANISH LANGUAGE+**

An AP Spanish Language course is comparable to an advanced level (5th- and 6th-semester or the equivalent) college Spanish language course. Emphasizing the use of Spanish for active communication, it encompasses aural/oral skills, reading comprehension, grammar, and composition. The course objectives are to help you do the following: comprehend formal and informal spoken Spanish; acquire 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; compose expository passages; and to express ideas orally with accuracy and fluency. The course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines, rather than to the mastery of any specific-subject matter. Finally, you should receive extensive training in the organization and writing of compositions as an integral part of this AP course.

FLJ614 **ADVANCED PLACEMENT JAPANESE LANGUAGE+**

An AP Japanese Language course is equivalent to a 3rd year college Japanese language course. Emphasizing the use of Japanese for active communication, it encompasses aural/oral skills, reading comprehension, grammar, and composition. Course objectives are to comprehend formal and informal spoken Japanese , acquire vocabulary and a grasp of structure to allow the student to get the gist when reading newspaper and magazine articles, as well as of modern literature in Japanese by mastering the first 300 characters and reading 500 , compose expository passages , and express ideas orally with accuracy and fluency . The course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines, rather than to the mastery of any specific-subject matter. Finally, students should receive extensive training in the organization and writing of compositions as an integral part of this AP course.

***ADVANCED PLACEMENT COURSES carry "weighted" grades. In calculation of grade point average, they receive one extra point. The AP exams (given in May) MUST be taken in order to receive the weighted grade. Please meet with your Counselor before selecting Advanced Placement courses.**

FINE ARTS

COURSE CODE	COURSE TITLE	LENGTH	GRADE LEVEL	RECOMMENDATION
ARA301	FUNDAMENTALS OF ART	Y	9-12	None
ARH401S	DIGITAL PHOTOGRAPHY	SEM	9-12	None
ARW401S	DRAWING	SEM/Y	9-12	Fund. of Art/Studio
ARC401S	SCULPTURE	SEM	9-12	Fund. of Art**
ARS401	STUDIO ART	Y	9-12	Fund. of Art
ARP401S	PAINTING	SEM/Y	9-12	Fund. of Art/Studio
ARA613	AP STUDIO ART+	Y	12	Fund/Studio/Draw/Paint
ARE401S	CERAMICS	SEM	9-12	Fund. of Art **
HUH401S	HUMANITIES	SEM/Y	9-12	None
ARV301	VIDEO ARTS	Y	9-12	Video Comm***
MUI302	INTERMEDIATE BAND	Y	9-12	Audition
MUI303	ADVANCED BAND	Y	9-12	Audition
MUI304	JAZZ ENSEMBLE	Y	9-12	Audition
MUI305	STRING ENSEMBLE	Y	9-12	None
MUV301	BEGINNING CHORUS	Y	9-12	None
MUV302	ADVANCED CHORUS	Y	9-12	Audition
MUV303	SHOW CHOIR	Y	9-12	Audition
MUS303S	PIANO I	SEM	9-12	None
MUS304S	PIANO II	SEM	9-12	Piano I
MUS301S	GUITAR I	SEM	9-12	None
MUS302S	GUITAR II	SEM	9-12	Guitar I ***
MUC301	COMPUTER MUSIC	SEM	9-12	Music background
DRA301S	DRAMA-THEATER	SEM/Y	9-12	None
MUT611	AP MUSIC THEORY+	Y	11-12	Computer Music

**With permission from the instructor, may be repeated for credit.
*** Permission from Instructor/Audition needed if not in Guitar I 1st semester.

FINE ARTS COURSE DESCRIPTIONS

ARA301 **FUNDAMENTALS OF ART**

Designed as the basic entry course for the art program, this yearlong course provides instruction in the use 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 the basic techniques of drawing, painting and printmaking, which can be used throughout life for communication, expression, and enjoyment.

ARH401S **DIGITAL PHOTOGRAPHY**

The digital photography course is designed to introduce the digital camera and basic photography techniques. Instructional activities will provide practice in using a variety of photographic tools and software. Principles of input, output and computer processing techniques are covered. Students will produce black/white and color photographic images and produce a photographic essay using prints. Photography as applied to situations in illustrative, commercial and advertising photography are discussed and practiced. This course is one-semester.

ARW401S **DRAWING**

Drawing is a course designed for students who want to further develop their skills using many different media including pencil, pastels, acrylics, pen and ink, scratchboard and etching. Students explore several aspects of drawing with the aim of developing their own personal expression. Students must have successfully completed Fundamentals of Art and Studio Art before enrolling in Drawing. This course may be taken for one or two semesters.

ARC401S **SCULPTURE**

This one-semester course is designed to offer students the opportunity to create three-dimensional works of art. Students will learn to create sculpture through the methods of additive, subtractive, modeling, molding and fusing using a variety of mediums. The Fundamentals of Art course is recommended before taking this course.

ARS401 **STUDIO ART**

The Studio Art course is a yearlong course designed either as units of study in various media or as an individualized course for advanced students. Students who would like to develop skills in several media would benefit from this course. They can concentrate on selected activities from the following options: drawing, watercolor, acrylic or oil paintings, sculpture, ceramics, commercial art, creative crafts, lettering, printmaking, and mixed media. All students must have successfully completed Fundamentals of Art before taking Studio Art.

APR401S **PAINTING**

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. Students in Painting should already have taken Fundamentals of Art and Studio Art before they take Paining. This course may be taken one or two semesters.

ARA613 **ADVANCED PLACEMENT STUDIO ART, GENERAL PORTFOLIO+**

The AP Studio Art, General Portfolio course is a yearlong course designed by the College Board Advanced Placement program. Instead of taking an examination, studio art candidates are required to produce a portfolio for evaluation, which is to be prepared and submitted according to the AP specifications. Each portfolio contains three sections: quality, for which original works are submitted (four works are required); concentration, an in-depth, individual project (up to 20 slides or a film or videotape are required); and breadth, demonstration of a wide range of experience (20 slides are required). Students need to have successfully completed Fundamentals of Arts, Studio Art, Drawing and Painting before they take AP Studio Art.

ARE401S **CERAMICS**

The ceramics course is a one-semester class, designed to provide a studio-oriented experience dealing with the study of clay. Students explore the properties of clay by making utilitarian and sculptural forms with an emphasis on form, design, and craftsmanship. The course includes instruction in clay applications, in kiln management, and in the historical role of ceramics in our culture. Teacher recommendation required for students who wish to continue in Ceramics beyond the one-semester course. The Fundamentals of Art course is recommended before taking this course.

HUH401S **HUMANITIES**

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. This class can be taken for either one year or either semester. Students wanting to take the class for the year should use HUH401 on their course selection form. Students requesting just one semester should use the HUH401S code.

ARV301 **VIDEO ARTS**

The video art course provides students with a comprehensive video arts program that emphasizes video production as an art form. Students create original video productions using equipment that generates, processes, or alters electronic visual and aural images. This equipment includes the video camera, recorder computer, special effects generator and editing machines. It also includes equipment that reproduces or synthesizes sound

effects and music, such as CD and tape players and electronic keyboards. Students use the video medium to effect personal or social expression through visual/aural images, to create videos with aesthetic goals, and to convey information about the visual or performing arts.

MUI302 **INTERMEDIATE BAND**

Intermediate Band students are introduced to music notation, rhythms, terminology, key signatures, minor and major scales, sight-reading and a variety of styles of music beyond a Beginning (1st and 2nd year) Band level. Opportunities exist for participation in large group, small group/ensemble and solo performances.

MUI303 **ADVANCED BAND**

Advanced Band members are introduced to levels of rhythms, music notation, and terminology and sight-reading beyond an Intermediate Band (2nd-3rd year) level as well as an understanding of all Major and minor key signatures and scales. A variety of performance opportunities exist including large group (entire wind band), small group/ensemble and solo performances during the school year. All Advanced Band members are strongly encouraged to audition for DoDDS-Pacific Honor Band.

MUI304 **JAZZ ENSEMBLE**

Members of Jazz Band are accepted on an audition basis from Advanced Band level band students. A variety of jazz styles are learned and performed, as well as opportunities for students to learn and perform using improvisation.

MUI305 **STRING ENSEMBLE**

The string ensemble course is designed to acquaint students with beginning to advanced instrumental music skills which include, but are not limited to, the following content: beginning to intermediate level sight-reading skills; discrimination of pitch; absolute essentials for playing in tune; inter-mediate rhythm concepts and patterns; technique for achieving the essentials of unit, balance, and contract in performing instrumental music; study of all major and minor scales; performance of a variety of good musical repertoire; and listening skills development. Students will need to provide their own musical instrument for this course.

MUV301 **BEGINNING CHORUS (Male Vocal Ensemble)**

The purpose of this course is to provide students with vocal music competencies and experiences: reading music notation vocally, singing with ensembles and choirs using two, three, and four-part music; performances in public using good vocal techniques. Grading will be on class performance, correct usage of musical and vocal principles taught and public performances.

MUV302 **ADVANCED CHORUS (Female Vocal Ensemble)**

This class is for a selected group of singers who are willing to work to prepare and perform various types of music in public. Self-discipline and a desire to work in this class are essential elements of the students' evaluation.

MUV303 **SHOW CHOIR (Auditioned Mixed Vocal Ensemble)**

This course is open to students who have a strong desire to perform. Students will need to audition and will be selected by the director. This is a small performing ensemble of the top vocalists in the school. The class will concentrate on jazz and popular music, choreography and performing.

MUS303S **PIANO I**

In this one-semester class, the goal for students in piano keyboarding is to acquire basic piano playing skills and fundamental general music knowledge that will enable them to continue learning beyond the class. Students will learn keyboard layout, hand positions, and fingering techniques on the piano. They will receive basic music theory instructions including notation, chord structure and scales. This class is for students who have never played the piano before.

MUS304S **PIANO II**

This one-semester course is designed to further develop students' music and keyboard skills. The content includes, but is not limited to, refining listening skills, and reading notation in bass and treble clefs; playing more complex rhythm concepts and patterns, playing in varied examples of duple and triple meter, and playing technically advanced melodies to enhance left- and right-hand independence. Students with no experience should start with Piano I before they attempt Piano II.

MUS301S **GUITAR I**

The guitar I course is 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 must bring in their own guitar for this course. This is a one-semester course.

MUS302S **GUITAR II**

The guitar II course is designed to introduce students to the advanced 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, guitar accompaniment techniques, major and minor scales, and position change. This

class is a one-semester course. Students must bring in their own guitar for this course. Students will need to audition and receive teacher permission to take this class if they haven't taken Guitar I during the 1st semester.

MUC301 **COMPUTER MUSIC**

This one-semester class is designed to introduce students to basic synthesizer techniques, musical instrument digital interface (MIDI) concepts, recording techniques, programmable rhythm mailing techniques, music composition, and software applications. Instructional activities will include, but will not be limited to, the following activities: multi-track digital recording, composition and MIDI programming, and "Standards-Based" instruction using music theory and history software. Students must have some background in music, which includes knowing how to read music prior to enrolling in this course.

DRA301S **DRAMA-THEATER**

This course can be either one semester or one year and offers an introduction to the performing art of drama. Students will study pantomime, oral interpretation, voice and diction, stage movement, and character development. Because this course is a performance class, grading will be based on participation, rehearsal, and performance. Some theatre history will be covered and outside reading of plays will be required. Students interested in remaining in Drama for the entire year should indicate DRA301 on their course selection form. For one semester, please indicate DRA301S.

MUT611 **ADVANCED PLACEMENT MUSIC THEORY+**

The ultimate goal of an AP Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. The achievement of this goal may be best promoted by integrated approaches to the student's development of: aural skills, listening skills, sight-singing skills, performance exercises, written skills, written exercises, composition skills, and analytical skills. This is a yearlong class.

.*ADVANCED PLACEMENT COURSES carry "weighted" grades. In calculation of grade point average, they receive one extra point. The AP exams (given in May)MUST be taken in order to receive the weighted grade. Please meet with your Counselor before selecting Advanced Placement courses.

CAREER AND TECHNICAL EDUCATION

COURSE CODE	COURSE TITLE	LENGTH	GRADE LEVEL	RECOMMENDATION
PTB301	BUS & PER. FINANCES	Y	9-12	None
PTB402	ACCOUNTING I	Y	9-12	None
PTB502	ACCOUNTING II	Y	11-12	Accounting I
PTB401	MGMT. & INTER. BUS.	Y	9-12	None

PTB501S	MKTG & ENTREPREN.	SEM	11-12	None
PTB503	BUSINESS LAW	Y	11-12	None
PTI307	IMAGING SFWR APP	SEM	9-12	Keyb., Comp Apps.
PTI301	COMPUTER APPS I	SEM	9-12	25 wpm keyboarding
PTI305	DATABASE SFWR	Y	11-12	Keyb., Comp Apps.
PTI306	SPREADSHEET SFWR	SEM	11-12	Keyb., Comp Apps
PTI303	WORD PROCESS SFWR	SEM	9-12	Keyb., Comp Apps.
PTI304	PRESENTATION SFWR	SEM	9-12	Keyb., Comp Apps.
PTI307	IMAGING SOFTWARE APP	SEM	9-12	None
PTI405	INTERACTIVE MULTIMEDIA	SEM	9-12	Keyboarding
PTI407S	WEB SITE DEV-MGT	SEM	9-12	Keyboarding
PTP305	JAVA I	SEM	9-12	None
PTP306	JAVA II	SEM	9-12	Java I
PTP307	VISUAL BASIC PROG I	SEM	9-12	None
PTP308	VISUAL BASIC PROG. II	SEM	9-12	Visual Basic I
PTE501	ENG. DESIGN & TECH. I	Y	9-12	None
PTE601	ENG. DESIGN & TECH. II	Y	9-12	Eng. Des & Tech I
PTI409	COMPUTER ANIMATION	Y	9-12	None (New course)
PTE303	ENGINEER DRAW-CAD	Y	9-12	None (New course)
PTV301	VIDEO COMM I	Y	9-12	None
PTV401	VIDEO COMM II	Y	9-12	Video Comm. I
PTV501	VIDEO COMM III	Y	9-12	Video Comm. II
PTI309	COMPUTER SRV/SUPP	Y	10-12	None
PTI501	HOME NETWORKING	Y	10-11	Comp. background
PTI601	BUSINESS NETWORKING	Y	11-12	Cisco Networking I
PTW301	CAREER DECISIONS	SEM	9-12	None
PTW501,2,3	CAREER PRACTICUM	SEM/Y	12	None
PTF401	CULINARY ARTS I	Y	10-12	None
PTF402	CULINARY ARTS II	Y	10-12	Culinary Arts I
PTV304	FAMILY CONSUMER SCI	SEM	9-12	None
VEF301	AIR FORCE JROTC I	Y	9-12	None
VEF401	AIR FORCE JROTC II	Y	9-12	JROTC I
VEF601	AIR FORCE JROTC IV	Y	10-12	JROTC I, & apprvl
VES402	SUMMER LEADERSHIP	SEM	9-12	Approval - Summer

CAREER AND TECHNICAL EDUCATION COURSE DESCRIPTIONS

PTB301 **BUSINESS & PERSONAL FINANCES**

This full year course is designed to make students aware of the financial challenges confronting them in daily living and in the workplace. Included will be such topics as how to make intelligent decisions in spending and saving; how to maintain good

financial records and manage payroll; how to use the accounting cycle; how to use credit and card cards wisely; how to obtain information from banking services, insurance choices, investment choices and how to prepare income tax forms. This course counts for CTE credit.

PTB402 **ACCOUNTING I**

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. This is a full year course and counts for CTE credit.

PTB502 **ACCOUNTING II**

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. This is a full year course and counts for CTE credit.

PTB401 **MANAGEMENT INTERNATIONAL BUSINESS**

This full year 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. Students will also be introduced 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. Units of instructions include economics, finance, marketing, human resources, global competitiveness, workplace skills such as time management, money management, human resources management, listening skills, speaking skills, and accessing/ evaluating electronic resources.

PTB501S **MARKETING & ENTREPRENEURSHIP**

The marketing 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/E-Commerce 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. Students will have the opportunity to gain skills in emerging technologies that become the standard for conducting global business (E-Commerce). 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. This is a one-semester class. This course counts for CTE credit.

PTB503 **BUSINESS LAW**

Business Law is a full year class that 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. This course counts as a CTE credit.

PTI307 **IMAGING SOFTWARE APPLICATIONS**

Imaging Software Applications provides students with the opportunity to develop professional level skills in imaging software. This is a SEMESTER class. Instruction will be provided in a lab utilizing individualized instruction and electronic learning services. Students successfully completing this course will be **eligible** to take at least one of the user or specialist exams (**Adobe PhotoShop**) for imaging software certification. This course can be counted as a computer or CTE class.

PTI301 **COMPUTER APPLICATIONS I**

Computer Applications 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. Recommended prerequisite: Keyboarding. Students enrolled in this course should be able to demonstrate a minimum keyboarding skill of 25 wpm. This is a one-semester course. This course counts as a computer class for CTE credit.

PTI305 **DATABASE SOFTWARE APPLICATIONS**

Database Software Applications provides students with the opportunity to develop professional level skills in database management. Instruction will be provided in a lab utilizing individualized instruction and electronic learning services. Students successfully completing this course will be **eligible** to take at least one of the user or specialist exams for database certification. This is a full year class. Recommended prerequisite: Keyboarding, Computer Applications. It is also recommended that students be in 11th or 12th grade to enroll in this course. This course can be counted as a computer or CTE class.

PTI306 **SPREADSHEET SOFTWARE APPLICATION**

Spreadsheet Software Applications is a one semester course that provides students with the opportunity to develop professional level skills in spreadsheet software. Instruction will be provided in a lab utilizing individualized instruction and electronic learning services. Students successfully completing this course will be **eligible** to take at least one of the user or specialist exams for spreadsheet software certification. Recommended prerequisite: Keyboarding, Computer Applications. It is also

recommended that students be in 11th or 12th grade to enroll in this course. This course can be counted as a computer or Career and Technical education class.

PTI303 **WORD PROCESSING SOFTWARE APPLICATION**

Word Processing Software Applications is a one-semester course that provides students with the opportunity to develop professional level skills in word processing software. Instruction will be provided in a lab utilizing individualized instruction and electronic learning services. Students successfully completing this course will be **eligible** to take at least one of the user or specialist exams for word processing software certification. Students should have some experience using MS Word before enrolling in this course. Recommended prerequisite: Keyboarding, Computer Applications. This course can be counted as a computer or CTE class.

PTI304 **PRESENTATION SOFTWARE APPLICATION**

Presentations Software Applications is a one-semester course that provides students with the opportunity to develop professional level skills in presentations software. Instruction will be provided in a lab utilizing individualized instruction and electronic learning services. Students successfully completing this course will be **eligible** to take at least one of the user or specialist exams for presentation software certification. Students should have some experience using PowerPoint before enrolling in this course. Recommended prerequisite: Keyboarding, Computer Applications. This course can be counted as a computer or PTS class. Imaging Software Applications provides students with the opportunity to develop professional level skills in imaging software. Instruction will be provided in a lab utilizing individualized instruction and electronic learning services. Students successfully completing this course may be eligible to take an Adobe associate level certification exam.

PTI 405 **INTERACTIVE MULTIMEDIA**

Interactive Multimedia prepares students for careers in the IT industry. The course sequence focuses on duties and tasks performed by professionals developing interactive multimedia as well as pre-employment and employment skills. Digital Media Creation (DMC) provides students with the opportunity to develop professional-level skills in multimedia using Adobe Flash. This product-oriented course introduces the student to interactive multimedia presentations. Hands-on activities are used as students develop skills, master techniques, and prepare products for a client-based environment. Students learn to create professional digital media creations using animation, sound, and videos. The course also introduces students to document construction for publishing on the World Wide Web using authoring software. Units of instruction include design and layout, font selection, image editing, and digital cameras and images. Internet research and copyright laws are emphasized.

PTI407S **WEB SITE DEVELOPMENT/MANAGEMENT**

In Web Site Development & Management, students will design, implement, and manage a web site. This is a one-semester hands-on laboratory course designed to teach

students the concepts, skills and processes involved in web site development and management. Students will evaluate a variety of existing web sites for content, design, and functionality. Students will work collaboratively to design, construct, and maintain an interactive web site based on a single theme or project. Students will use electronic learning services to access additional resources. This course can be counted as a computer or CTE class.

PTP305 **JAVA PROGRAMMING I**

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. Students will analyze a problem, design a solution, write the program needed to solve the problem, test the problem and make the necessary corrections in the program. Activities will include hands-on programming, group and individual assignments and special projects. Students may demonstrate the ability to communicate with instructor and peers via communications software. Students will use electronic learning services to access additional resources. This course is suggested for juniors and seniors with prior computer knowledge. This class counts as computer credit.

PTP306 **JAVA PROGRAMMING II**

Programming in Java II is a one-semester course designed to expand skills in Java programming concepts using a structured approach. Students will develop Java applications and applets in top down programming design. Problem solving and program documentation will be emphasized. Students should have completed Java I before taking Java II. Skills learned during the first semester of Java will be reviewed and enhanced during the second semester of Java. This course is suggested for juniors and seniors with prior computer knowledge. This class counts as computer credit.

PTP307 **VISUAL BASIC PROGRAMMING I**

Programming in Visual Basic I is a one-semester course designed to teach students programming concepts using Visual Basic. Problem solving and program documentation will be emphasized. Students will analyze a problem, design a solution, write the program needed to solve the problem, test the problem and make the necessary corrections in the program. Activities will include hands-on programming, group and individual assignments and special projects. Students may demonstrate the ability to communicate with instructor and peers via communications software. Students will use electronic learning services to access additional resources. This course can be counted as a computer or CTE class.

PTP308 **VISUAL BASIC PROGRAMMING II**

Programming in Visual BASIC II is a one-semester course designed to be a continuation of Visual BASIC I. Problem solving and program documentation will be emphasized. Students will analyze a problem, design a solution, write the program needed to solve the problem, test the problem and make the necessary corrections in the program. Activities will include hands-on programming, group and individual assignments and special

projects. Students may demonstrate the ability to communicate with instructor and peers via communications software. Students will use electronic learning services to access additional resources. This course can be counted as a computer or CTE class.

PTE501 **ENGINEERING DESIGN AND TECH. I**

The engineering design and tech. course introduces students to the technology and design of robotic systems, electrical theory and application, Computer Aided Drawing (CAD), Computer and Numerically Controlled (CNC) programming of mills and lathes, the application of physical principals (to include simple machines and pneumatics), and Quality control. This course also introduces students to the technology systems, tools, materials, and processes of industry through instruction and activities. This course may be used by as an Applied Engineering Technology major as part of the School-to-Work transition program. Safety is taught for each cell before it is used and is practiced during the use of each cell. This course includes six cells, all of which are utilized in this full year class and counts as a CTE credit.

PTE601 **ENGINEERING DESIGN AND TECH. II**

The engineering design and tech. course continues with skills learned in Engineering Design and Tech. I in the design of robotic systems, electrical theory and application, Computer Aided Drawing (CAD), Computer Numerically Controlled (CNC) programming of mills and lathes, the application of physical principals and quality control. This class counts and a CTE credit and is full year.

PTI409 **COMPUTER ANIMATION**

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. This course can be counted as a computer or CTE class and is full year.

PTE303 **ENGINEER DRAW-CAD**

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, or engineer technicians. This course is part of the School-to-Work transition guidelines. This course can be counted as a computer or CTE class and is full year.

PTV301 **VIDEO COMMUNICATIONS I**

The Video Communications I course is a full year class designed to introduce students to the concepts, equipment, and emerging technologies related to video and audio production. Through a hands-on, project-oriented, and ethical approach, students will apply knowledge of pre-production planning, filming, composition, editing, audio, lighting, and computer graphics/effects to communicate effectively. This course can be counted as a computer or CTE class.

PTV401 **VIDEO COMMUNICATIONS II**

This course expands concepts and skills developed in Video Communications I. Students in this full year course will use individual and group project-oriented approaches to refine video and audio production techniques. Students will explore concepts related to, but not limited to, ethics, scriptwriting, involvement in cross-curricular activities, school news and documentary productions, interview techniques, broadcast journalism, multi-camera switching, computer graphics, and digital video processing. Students will investigate emerging technologies driven by industry standards in the video and audio field. This course can be counted as a computer or CTE class.

PTV501 **VIDEO COMMUNICATIONS III**

The Video Communications III course is a full year course that 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. This course can be counted as a computer or CTE class.

VEE309 **COMPUTER SERVICE/SUPPORT**

This full year 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 reflect 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 new and older 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. This course can be counted as a computer or CTE class.

PTI501 **HOME NETWORKING**

This full year course is available to *sophomores and juniors* who are interested in becoming engineers and are preparing 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 II course should prepare the student to pass the Cisco Certified Network Associate exam. Students must commit to being in the Cisco program for two years. This course can be counted as a computer or CTE class.

PTI601 **BUISNESS NETWORKING**

This second, full year course prepares *juniors and seniors* 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. This is the 2nd year of a two-year program. The program teaches students to design, build, and maintain small to medium-sized networks. Activities are conducted in a lab setting using computers, servers, and routers that students assemble into functional networks. During the course students will participate in threaded case study discussions. This course can be counted as a computer or CTE class.

PTW301 **CAREER DECISION MAKING**

Career Decision Making is designed to provide students with in-depth research of the world of work through self/career awareness, occupational exploration, career interests, work activities, work situation and environment, attitudes toward work, and career planning. Using the information obtained in this course, students are able to understand and to focus on career planning and work relationships. Topics to be studied include: self and career assessments, career exploration, job application activities and techniques, college and technical preparation opportunities, personal qualities in a work environment, and electronic information sources. This is a one-semester course and counts as a CTE credit.

PTW501S, PTW502S and PTW503S **CAREER PRACTICUM 1 hr, 2 hr and 3 hr.**

The Career Practicum Program provides seniors with school to career experiences and training though a work practicum related to their career goals. Students are provided an opportunity to acquire an understanding of actual employment settings utilizing/developing/applying: their skills and aptitudes; problem solving skills in the work environment; communication techniques; electronic information systems to search for career information; information resources; learning and self-management tools; and intrapersonal and interpersonal competencies. This is a semester or yearlong class and

can be taken for multiple periods and counts as a PTS credit. Please add an S to the end of the course code if you intend to only take this class for one semester.

PTF401 **CULINARY ARTS I**

If you are considering a career as a professional chef, restaurant owner or manager, or in some other aspect of the food service industry, Culinary Arts I is the first step in your career. You will be learning professional level skills relating to food preparation and service, food science and management. This will involve classroom and lab experiences as well as travel to various professional kitchens throughout the year. Topics of study will include an introduction to food science, foodservice equipment, breakfast foods & sandwiches, salads and garnishes, fruits and vegetables, and controlling foodservice costs. You will be a part of the Panther Pantry Catering business. This course is for the serious student and does require some afternoon or evening catering assignments as part of the class. It is a full year class and is part of a two-year program. This course counts as a CTE credit.

PTF402 **CULINARY ARTS II**

The student who desires to be certified as a Pro-Start Culinary Arts graduate will need to take the second year of the program. Culinary Arts II continues your professional line of study to include the history of food service, the art of service, preparation and service of meats, desserts & and baked goods, marketing and building a menu, purchasing and inventory control and customer relations. You will hone your skills as you assume managerial level responsibility for the Panther Pantry Catering business. This class, like the first, is full year. This course is for the serious student as well and does require some afternoon or evening catering assignments as part of the class. This course counts as a CTE credit. This is a TWO PERIOD class.. Prerequisite: Culinary Arts I

PTZ304: Family Consumer Science

Family Consumer Science prepares students with life skills. The course sequence focuses on pre-employment and employment skills. The personal and family consumer science course is designed to provide students with basic constructs, skills, and competencies essential to living in the 21st Century. Students will explore the roles they will assume as adults and acquire skills needed in life. Included will be the importance of food selection and nutrition; quality of life; personal relationships; family living; early childhood development and conflict resolution. Hands-on exploratory experiences will be emphasized. Students will plan, design, and construct projects and investigate content-related occupations. Cooperative learning strategies will be used in content presentations. There will be an emphasis on direct teaching of problem solving, strategic planning, and decision-making skills. Leadership roles are emphasized.

VEF301 AIR FORCE JROTC I - A JOURNEY INTO AVIATION HISTORY (AS 100)

Students study history of flight, the Air Force and other military services, astronomy, space exploration, and flight principles. In the leadership lab, students develop

leadership and communications skills. Students learn drill movements and lead flights. They study cadet, Air Force, and AFJROTC organization missions and structures, customs, courtesies, uniform wear, and military traditions and career opportunities and benefits. They learn the importance of self-control and discipline, positive attitudes, self-esteem, and citizenship. Students participate in a wellness program to encourage active, healthy lifestyles. Students develop stress, time, and study management skills. Students develop a career and education goal plan. Methods of instruction include lectures, laboratory exercises, group discussions, computer simulations and presentations, written reports, speeches, and field trips to include flights. Training opportunities include New Cadet Orientation, Summer Leadership School, and intermediate leadership training. Students are encouraged to participate in AFJROTC extracurricular activities such as the Drill Team, Color Guard, Black Knights Orienteering Team, Model Club, Rocket Club and Kitty Hawk Air Society Academic Honor Society. Students wear once a week an issued uniform and exhibit proper personal appearance while wearing the uniform. Successful course completion receives CTE graduation credit and is a National Security/Military Career required course for endorsement.

VEF401 AIR FORCE JROTC II THE SCIENCE OF FLIGHT (AS 210)

Students explore the aerospace environment, human physiology, principles of aircraft flight, and principles of navigation. Students practice and improve their communications, leadership, citizenship, and management qualities and skills. Students learn how to resolve conflict and work in teams. Students assume leadership positions in the cadet group, plan activities, and execute projects. Students exhibit, teach, and enforce proper uniform wear, personal appearance, and military customs and courtesies while wearing the uniform. Students teach and perform mandatory drill movements. Students wear the issued uniform once a week during the school year. Students will participate in a wellness program that encourages cadets to lead active, healthy lifestyles. **See VEF 301** above for methods of instruction, training opportunities, and extracurricular activities. This course counts as a PTS credit and National Security/Military Career required course for endorsement. **PREREQUISITE:** Satisfactory completion of AFJROTC I (VEF 301) or other JROTC equivalent course level one.

VEF601 AIR FORCE JROTC IV - MANAGEMENT OF CADET CORPS (AS 400)

Students manage the corps during their fourth year. This hands-on experience affords the cadets the opportunity to put the theories of previous leadership courses into practice. All the planning, organizing, coordinating, directing, controlling, and decision-making will be done by the cadets. They practice their communication, decision-making, personal-interaction, managerial, and organizational skills. Students are evaluated on their communications, decision making, personal interactions, managerial, and organization skills. Students learn about aerospace, military, and civilian career opportunities. Students prepare resumes, college and higher education admission applications, financial aid applications, and letters of recommendations. Students apply knowledge of personal finances and investment opportunities to the real world demands they will face after high school graduation. Students learn the importance of management and how to make decisions. Students teach and demonstrate proper uniform wear, personal appearance

when wearing the uniform and military customs and courtesies. Students write corps policies and procedures and teach level one cadets mandatory drill movements and other assigned level one curriculum subjects. Students wear the issued uniform weekly during the school year and attend weekly cadet senior staff meetings as directed. Students will participate in a wellness program that encourages cadets to lead active, healthy lifestyles. **See VEF 501** above for methods of instruction, training opportunities, and extracurricular activities. Successful course completion receives PTS graduation credit and is a National Security/Military Career required course for endorsement. **PREREQUISITES:** Satisfactory completion of AFJROTC I (VEF301), other service JROTC level one basic course, or waiver by an AFJROTC Aerospace Science Instructor.

VES402 SUMMER LEADERSHIP (SUMMER LEADERSHIP SCHOOL)

Course awards and annotates academic credit for successful completion of the annual DODEA Pacific Summer Leadership School (SLS). Selected JROTC cadets attend this eight-day training. SLS builds leadership and management skills in a mentally and physically demanding training environment. JROTC instructors and active duty military service personnel conduct and monitor the training. This dual track training has cadets attending for the first time as basic trainees and a limited number of cadets attending again who serve as cadet leaders and trainers. Cadets live in military facilities, eat in military dining facilities, and are transported in government vehicles. Cadets attend orientations; participate in physical training; develop leadership, time management and teamwork skills; and develop communication skills, self discipline, and the ability to follow instructions and to comply with standards. Training schedule includes field trips, hands on training and demonstrations, daily inspections, physical training, team exercises, and drill. Military oriented training includes water survival, rappelling, endurance course, land navigation, base defense, personal survival, and team and self confidence building exercises. **PREREQUISITES:** Students must successfully complete AFJROTC I (VEF301) or another service JROTC level one basic course and be approved for enrollment by an AFJROTC Aerospace Science Instructor.

ELECTIVES

COURSE CODE	COURSE TITLE	LENGTH	GRADE LEVEL	PREPARATION
LAJ401	JOURNALISM	Y	10-12	None
LAV301	AVID – 9	Y	9	Interview
LAV401	AVID – 10	Y	10	Interview
LAV501	AVID – 11	Y	11	Interview
LAV601	AVID – 12	Y	12	Interview
LAS401	SPEECH	Y	9-12	None
LAL501	SHAKESPEARE	Y	9-12	None

MAA305	ALGEBRA I LAB	Y	9-12	Selected
MAG405	GEOMETRY LAB	Y	9-12	Selected
MAA405	MATH LAB III	Y	10-12	Selected
PEG402S	CONDITIONING	SEM/Y	10-12	PEF301 & PEL301
PPS401	COLLEGE (SAT) PREP	SEM	10-12	None
AAY301	YEARBOOK PROD	Y	9-12	None
RED305	READING LAB 9	Y	9	Selected
RED405	READING LAB 10	Y	10	Selected
RED505	READING LAB 11	Y	11	Selected
RED605	READING LAB 12	Y	12	Selected

ELECTIVE COURSE DESCRIPTIONS

LAJ401 **JOURNALISM**

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 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.

LAV301, 401, 501, and 601 **AVID**

AVID (Advancement Via Individual Determination) is a full-year well-established program, widely available in the US and in DoDDS. The website is: www.avidonline.org/ Students are encouraged to stay in the program longer than one year. The goal of AVID is to prepare students to be successful in college. Heavy emphasis is placed on writing and study skills necessary for the rigors of college. The college admissions process, SAT preparation, outside speakers and adult tutors are major components of the program. Key to the program is the student's willingness to commit to the effort

required to become an excellent candidate for college. Teacher approval and interview are required. AVID is available for all four grades (9-12) and can be repeated.

LAS401 **SPEECH**

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-examinations; and researching a topic thoroughly. This is a yearlong class.

LAL501 **SHAKESPEARE**

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. This is a yearlong class.

MAA305 **ALGEBRA I LAB**

This class will support and reinforce the basic algebraic concepts taught in the Algebra I, MAA 301 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. It is a yearlong long course that counts towards an elective credit.

MAG405 **GEOMETRY LAB**

This course is designed to aid the student, currently enrolled in Geometry, who may experience difficulty in grasping and retaining the geometric concepts and properties that promote student reasoning and problem solving. It reinforces the concepts being taught in Geometry as well as strengthens the students' algebra skills and arithmetic foundation. It is a yearlong course, which counts towards an elective credit.

MAA405 **MATH LAB III**

This class will support and reinforce upper level mathematics courses such as Algebra II or Discrete Mathematics. Students will have additional opportunities to build on their problem solving experiences to further develop their reasoning skills, and develop methods of justifications. A variety of applications and some general problem-solving techniques will be used. Students will receive elective credit for the class. This is a yearlong class.

PEG402S **CONDITIONING**

Only students who have successfully completed one year of Fitness for Life and Lifetime Sports (PEF301 & PEL301) may take this course for one-semester. Students will be introduced to the Tri-fit program. Students will develop their own fitness program and follow it throughout the course. Students must be self-motivated to take this class. Students will learn how to evaluate personal fitness readiness and explain specific training principles of fitness.

PPS401 **COLLEGE ENTRANCE (SAT & ACT) PREPARATION**

This semester class is designed to get students prepared to take the SAT and ACT. The new SAT contains three sections: math, reading comprehension and a completely new writing section. The writing section will include an essay. As many students find writing a good essay a challenge, the major focus of this class will be preparing students in this area. Students will prepare for the other two sections as well. The college admissions process is also covered. Actual college entrance exams and sample items form the core of the program.

AAY301 **YEARBOOK PRODUCTION**

The yearbook production course is a full-year practical course designed to produce the official yearbook for the school. All phases of yearbook production, including photography, copywriting; page layout, 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.

RED305-605 **READING LAB**

Improve reading achievement for students not reading at grade level through the use of a whole group instructional model with small group rotations. This course is available to students who test below grade level placement and is designed to help students who struggle with reading. The Reading Labs can be taken each year (9-12) and are yearlong.

Elective credits may also come from areas in which the requirements have been met. For example, if a student takes JROTC I in 9th grade, they will receive Careers (or CTE) credit, if they choose to take JROTC in any subsequent years, the credits will finish their PTS requirement and then become elective credits.

Another example – if a student takes 4 years of Band (or Choir), the first year counts for their Fine Arts requirement, then the next three years, elective credits are received.

DISTANCE LEARNING

Please talk to your Counselor if you are interested in taking any classes via Distance Education. All Distance Education courses require students to be independent workers with prior knowledge in the subject(s) they wish to pursue. KDHS students are strongly encouraged to take the course at KDHS if available.

DISTANCE LEARNING EDUCATION PROGRAM

The DoDDS Electronic School offers distance-learning courses to students around the globe. Through distance learning, students have an opportunity to take a course that might not be available at their local school. One of the major advantages of distance learning courses is that students are able to interact with other DoDDS students from other countries around the world. Students take the courses by computer using a powerful conferencing program called Lotus Notes.

Advantages of distance learning courses are:

- -Students have flexibility in scheduling. (A distance-learning course can usually be taken during any period of the day.)
- -Students are not judged by appearance or verbal skills.
- -Students gain valuable experience in the use of a global conferencing system.