

Guam High School



Course Descriptions

2010-2011

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4-YEAR PLAN BLANK TEMPLATE

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GRADUATION REQUIREMENTS

| <u>Courses</u> | <u>Credits</u> |
|---|----------------|
| 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 Regions or World History and ½ credit in US Government is required) | 3 |
| MATHEMATICS (Algebra I and Geometry are required). | 3 |
| SCIENCE (Biology and Chemistry <u>or</u> 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 |
| PROFESSIONAL TECHNICAL STUDIES (½ credit must be in a computer course). | 2 |
| ELECTIVE COURSES (Once you have taken your required PTS, Fine Arts, etc. any courses that you take in these areas will become Elective credits) | 6 |
| TOTAL | 26 |

GUAM HIGH SCHOOL 4-YEAR EDUCATIONAL PLAN

Student's Name _____

| GRADE 9 | | GRADE 10 | | GRADE 11 | | GRADE 12 | |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1st Semester | 2nd Semester |
| | | | | | | | |
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H.S. courses taken in Grades 7-8:

GRADUATION REQUIREMENTS:

Each box equals 1/2 credit:

26 Credits are required and
2.0 GPA is **REQUIRED** for graduation

Mathematics
(3 Units)

| | |
|--|--|
| | |
| | |
| | |

Health Education
(1/2 Unit)

| |
|--|
| |
|--|

Physical Education
(1 1/2 Units)

| | |
|--|--|
| | |
| | |

Professional Technical Studies
(2 Units)

| | |
|--|--|
| | |
| | |

English
(4 Units)

| | | |
|------------|--|--|
| English 9 | | |
| English 10 | | |
| English 11 | | |
| English 12 | | |

Social Studies
(3 Units)

| | | |
|--------------|--|--|
| W.R or W.H | | |
| U.S. History | | |
| U.S. Govt. | | |

Science
(3 Units)

| | |
|--|--|
| | |
| | |
| | |

Fine Arts
(1 Unit)

| | |
|--|--|
| | |
|--|--|

Foreign Lang.
(2 Units)

| | |
|--|--|
| | |
| | |

Electives
(6 Units)

| | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |

COLLEGE BOUND RECOMMENDATIONS:

| | |
|------------------|--|
| English | 4 Years |
| Social Studies | 3-4 Years |
| Science | 3-4 Years (Including Chemistry or Physics) |
| Math | 3-4 Years (through Algebra II) |
| Foreign Language | 2-3 Years of the same language |

CAREER/VOCATIONAL RECOMMENDATIONS:

- All advanced classes possible (i.e. Business, Computers, etc.)
- Career Practicum for on-the-job exposure in an area of personal interest (Sr. year)
- Math and Science as far as you can go

Guam High School PTS 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 | Navy Force JROTC I Navy Force JROTC II | JROTC III JROTC IV Psychology (.5) Street Law (.5) Speech Career Practicum |
| Gov't & Public Administration | National Security | Navy Force JROTC I Navy Force JROTC II | JROTC III JROTC IV Psychology (.5) Street Law (.5) Speech Career Practicum |
| 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) | Computer Animation Journalism I |

| | | | |
|------------------------|------------------------------------|------------------------------------|---|
| | | Publication Sw Apps | 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 |

GUAM HIGH SCHOOL COURSE OFFERINGS SCHOOL YEAR 2010-2011

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 understanding how the characters' actions and emotions reflect the student's own actions and emotions; understanding that literature is written at different levels for different purposes and for different audiences; and reading self-selected books to help students learn to view reading as a useful and pleasurable activity.

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 student 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 not English. 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 level 1 English proficiency. 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 CODE | COURSE TITLE | LENGTH | GRADE LEVEL | PREPARATION |
|-------------|-----------------------|--------|-------------|---------------|
| MAA301 | ALGEBRA I | Y | 9-12 | None |
| MAG401 | GEOMETRY | Y | 9-12 | Algebra I |
| MAZ501 | DISCRETE MATH | Y | 10-12 | Geometry |
| 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?

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.

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 | None |
| SCX401 | HUMAN ANAT & PHYS | Y | 10-12 | Biology |
| 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 Guam. Topics students study include ecological concepts of the sandy beach, rocky shore and benthic communities, seaweeds, planktonic forms, plankton and their relationship to marine life cycles, nekton, benthos, marine bacteriology, marine biological resources, and marine pollution.

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.

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 |
|-------------|------------------------|--------|---------------|--------------|
| SSW371 | HONORS WRLD HIST-LIT 9 | Y | 9Hon. 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 |
| SSW304 | GUAM CULTURE | SEM | 10-12 | None |
| SSG601 | U.S. GOVERNMENT | SEM | 12 | None |
| SSG612 | AP GOVT & POL+ | Y | 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

. SSW301 **WORLD HISTORY 9: CIVILIZATIONS**

This full-year course 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.

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.

SSZ304 U.S. MINORITIES I

Minorities in United States Society is a sociological study of minority groups in United States history. Part A, the first semester consists of a general overview of the sociological frame-work for the study of minorities to cover such concepts as discrimination, racism, and dominant-minority relations; the “old” and “new” immigrants from Europe; Native-Americans; East Asian-Americans; and South and Southwest Asian-Americans. The study of the historical and sociological development helps students understand the need for acceptance and assimilation of all people. This is a one-semester course.

SSZ305 U.S MINORITIES II

Minorities in United States Society is a sociological study of minority groups in United States history. Part A, the first semester consists of a brief review of the sociological framework for the study of minorities to cover such concepts as discrimination, racism, and dominant minority relations; African-Americans; Hispanic-Americans; minority religious groups; women; and present and future status of minority groups. Factors promoting the groups entrance to the United States, the struggle for acceptance and assimilation, and the present status of the group to include goals for the future are Discussed for each minority grouping. This is a one-semester course.

SSW304 GUAM CULTURE

This course is a brief overview of the history of Guam. It begins with the formation of the island from an undersea volcano to the migration of the ancient Chamorro people, animals and plants, to the eras of the island, Spanish-Chamorro war, Spanish-American war, Americanization of Guam, World War II and modern day Guam. Students explore the island through culture, myths and folklore and study the islands political destiny. This class is also instrumental in hosting the annual Chamorro Day activities celebrated school wide. This is a one-semester course.

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.

***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 |
|-------------|-------------------|--------|-------------|--------------|
| 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 |
|-------------|---------------------|--------|-------------|------------------------|
| ARA301S | FUNDAMENTALS OF ART | SEM | 9-12 | None |
| ARW401S | DRAWING | SEM/Y | 9-12 | Fund. of Art/Studio |
| ARS401S | STUDIO ART | Y | 9-12 | Fund. of Art |
| ARA613 | AP STUDIO ART+ | Y | 12 | Fund/Studio/Draw/Paint |
| ARC301S | COMPUTER ART | SEM | 9-12 | Fund of Art |
| ARE401S | CERAMICS | SEM | 9-12 | Fund. of Art ** |
| HUH401S | HUMANITIES | SEM/Y | 9-12 | None |
| MUI302 | INTERMEDIATE BAND | Y | 9-12 | Audition |
| MUI303 | ADVANCED BAND | Y | 9-12 | Audition |
| MUI304 | JAZZ ENSEMBLE | Y | 9-12 | Audition |
| MUV301 | BEGINNING CHORUS | Y | 9-12 | None |
| MUV302 | ADVANCED CHORUS | Y | 9-12 | Audition |
| MUS301S | GUITAR I | SEM | 9-12 | None |
| MUS302S | GUITAR II | SEM | 9-12 | Guitar I *** |
| DRA301S | DRAMA-THEATER | SEM/Y | 9-12 | None |

**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

ARA301S FUNDAMENTALS OF ART

Designed as the basic entry course for the art program, this one-semester 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.

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.

ARS401S STUDIO ART

The Studio Art course is a semester 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.

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.

ARC301S COMPUTER ART

This class is designed to provide the basics of graphic design, using the computer as the design medium. Computers are used with prescribed graphics software to teach two-dimensional design. The class will teach the elements (line, shape, color, texture, value and space) and principles (balance, rhythm, unity, proportion, variety and emphasis) of design through a series of assignments that are completed on the computer. Students need not have a compatible computer of their own, as all assignments will be completed in class.

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.

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.

MUV301 BEGINNING CHORUS

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**

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.

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.

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.

***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.**

PROFESSIONAL TECHNICAL STUDIES

| COURSE CODE | COURSE TITLE | LENGTH | GRADE LEVEL | RECOMMENDATION |
|-------------|------------------------|--------|-------------|-------------------|
| PTB301S | BUS & PER. FINANCES | SEM | 9-12 | None |
| PTB402 | ACCOUNTING I | Y | 9-12 | None |
| PTB401 | MGMT. & INTER. BUS. | SEM | 9-12 | None |
| PTB501S | MKTG & ENTREPREN. | SEM | 11-12 | None |
| PTI307 | DIGITAL IMAGING | SEM | 9-12 | Keyb., Comp Apps. |
| PTI305S | DATABASE SFWR | SEM | 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. |
| PTI308 | ePUBLISHING | SEM | 9-12 | Keyb. |
| PTI405 | DIGITAL MEDIA CREATION | SEM | 9-12 | Keyb. |
| PTI407 | WEB DESIGN | SEM | 9-12 | Keyboarding |
| PTP305 | JAVA I | SEM | 9-12 | None |
| PTP306 | JAVA II | SEM | 9-12 | Java I |
| 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 |
| PTW501,2,3 | CAREER PRACTICUM | SEM/Y | 12 | None |
| VEV301 | NAVY JROTC I | Y | 9-12 | None |
| VEV01 | NAVY JROTC II | Y | 9-12 | JROTC I |
| VEV601 | NAVY JROTC IV | Y | 10-12 | JROTC I, & apprvl |
| VES402 | SUMMER LEADERSHIP | SEM | 9-12 | Approval - Summer |

PROFESSIONAL TECHNICAL STUDIES 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 PTS 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 PTS credit.

PTB401S MANAGEMENT INTERNATIONAL BUSINESS

This semester 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 PTS credit.

PTI307 DIGITAL IMAGING

Digital imaging 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 PTS class.

PTI305S 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 semester 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 PTS class.

PTI306 SPREADSHEET SOFTWARE APPLICATION

Spreadsheet Software Applications is a 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 PTS 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 PTS 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.

PTI308 ePUBLISHING

ePublishing is a course designed for students with an interest in desktop publishing. This course will prepare the student for the InDesign Certification Exam as well as provide training in the software for personal use, employment, and advancement. Students will use modules to learn the Adobe InDesign software application and create projects.

PTI405 DIGITAL MEDIA CREATION

Digital Media Creation is designed to acquaint students with a variety of multimedia applications. A variety of technology tools will be used to produce multimedia projects that include graphics, sound, video, programming, and other appropriate technology. The emphasis of this course is the production of individual and/or group projects

PTI407 WEB DESIGN

In Web Design, 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 PTS 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 program 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.

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 PTS 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 PTS 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 PTS 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 PTS class.

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 through 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.

VEV301 NAVAL JUNIOR RESERVE OFFICERS TRAINING CORPS I

The purpose of this course is to introduce students to the precepts of citizenship, the elements of leadership and the value of scholarship in attaining life goals. This course is also designed to engender a sound appreciation for the heritage and traditions of America, with recognition that the role of sea power will be important in America's future, and develop in each cadet a growing sense of pride in his/her organization, associates and self. These elements are pursued at a fundamental level. Course curriculum includes weekly physical training at the basic level.

Successful course completion receives PTS graduation credit and is a National Security/Military Career required course for endorsement.

VEV401 NAVAL JUNIOR RESERVE OFFICERS TRAINING CORPS II

The purpose of this course is to further develop the cadet's leadership skills and teamwork. Students will be given increased responsibility and will be required to formulate plans and execute them. Students will obtain a basic knowledge of naval history, land navigation, and an increased level of physical training.

This course counts as a PTS credit and National Security/Military Career required course for endorsement. **PREREQUISITE:** Satisfactory completion of NJROTC I (VEV301) or other JROTC equivalent course level one.

VEV501 NAVAL JUNIOR RESERVE OFFICERS TRAINING CORPS III

The purpose of this course is to further develop the trait of leadership in students and introduce cadets to the vital importance of military justice, international law, and continue with the instruction of Naval Science to include astronomy, meteorology, weather, and the maneuvering board. The course will also provide the students with an understanding of the facets of sea power, national security, and naval history. Physical training levels will be increased with the cadets taking on responsibilities for the units training. Successful course completion receives PTS graduation credit and is a National Security/Military Career required course for endorsement. **PREREQUISITES:** Satisfactory completion of NJROTC I (VEV301), other service JROTC level one basic course, or waiver by a NJROTC 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 |
| 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 | 10-12 | PEF301 & PEL301 |
| PEG403S | FIELDING SPORTS | SEM | 10-12 | PEF301 & PEL301 |
| PEG404S | BALL CONTROL SPORTS | SEM | 10-12 | PEF301 & PEL301 |
| PEG407S | AQUATICS | SEM | 10-12 | PEF301 & PEL301 |
| PPS401 | COLLEGE (SAT) PREP | SEM | 10-12 | 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.

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.

PEG403S FIELDING SPORTS

This semester course is designed to enable students in grades ten through twelve to continue to develop the movement skills and conceptual knowledge in sports and physical activities. The course focuses on one category of sport or activity, teaching and improving the motor skills and tactical knowledge unique to that category of physical activity, which may include individual non-competitive activities listed: baseball, kickball, cricket, or softball.

PEG404S BALL CONTROL SPORTS

This semester course is designed to enable students in grades ten through twelve to continue to develop the movement skills and conceptual knowledge in sports and physical activities. The course focuses on one category of sport or activity, teaching and improving the motor skills and tactical knowledge unique to that category of physical activity, which may include individual non-competitive activities listed: basketball, flag football, hockey, or soccer.

PEG407S AQUATICS

This semester long course is designed to enable students in grades ten through twelve to continue to develop the movement skills and conceptual knowledge in sports and physical activities. The course focuses on one category of sport or activity, teaching and improving the motor skills and tactical knowledge unique to that category of physical activity, which may include individual non-competitive activities listed: lifeguard training, swimming, synchronized swimming, or water polo.

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.

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 PTS) 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. GHS students are strongly encouraged to take the course at GHS 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.